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AAPCC "National Poisoning and Exposure Database Annual Reports (AAPCC Annual Data Reports)." American Association of Poison Control Centers 2008. http://www.aapcc.org/dnn/NPDS/AnnualReports/tabid/125/Default.aspx.

Abadi A, H., and Brun R. "Synthesis and Evaluation of Novel 7-Trifluoromethyl-4-(4-substituted anilino) quinolines as Antiparasitic and Antineoplastic Agents," *Arzneimittel-Forschung-Drug Research* **2003**, *53*(9):655-663. http://dx.doi.org/10.1002/chin.200352151.

Abahussain E, and Ball D. "Disposal of unwanted medicines from households in Kuwait," *Pharmacy World Sci* **2007**, *29*(4):368-373. http://dx.doi.org/10.1007/s11096-006-9082-y.

Abahussain EA, Ball DE, and Matowe WC. "Practice and opinion towards disposal of unused medication in Kuwait," *Med Princ Pract* **2006**, *15*(5):352-357. http://www.ncbi.nlm.nih.gov/pubmed/16888392.

Abdulla F, Abu Qdais H, and Rabi A. "Site investigation on medical waste management practices in northern Jordan," *Waste Manage* **2008**, *28*(2):450-458. http://www.sciencedirect.com/science/article/B6VFR-4NRCRRG-1/1/5fda10541232db3c1a81edda6fa252f7.

Abellan MN, Bayarri B, Gimenez J, and Costa J. "Photocatalytic degradation of sulfamethoxazole in aqueous suspension of TiO2," *Applied Catalysis B: Environ* **2007**, *74*(3-4):233-241. http://www.sciencedirect.com/science/article/B6TF6-4N4J2YR-3/2/9ade26a0299ff37cdaef1eda17354a95. Abou-Auda HS. "An economic assessment of the extent of medication use and wastage among families in Saudi Arabia and Arabian Gulf countries," *Clin Therapeut* **2003**, *25*(4):1276-1292.

Abraham J, Bardelay D, Kopp C, Kleinke JD, and Bennion E. "Making regulation responsive to commercial interests: streamlining drug industry watchdogs," *British Med J* **2002**, *325*(7373):1164-1169. http://bmj.bmjjournals.com/cgi/content/full/325/7373/1164?etoc.

Abramowicz M. "Drugs past their expiration date," The Medical Letter 1996, 38(W979C):65-66.

Abramowicz M. "Drugs past their expiration date," *The Medical Letter* **2002**, *44*(W1142B):93-94. www.medicalletter.com/freedocs/exp**drugs**.pdf

Abramsson-Zetterberg L, and Slanina P. "Macrocyclic musk compounds - an absence of genotoxicity in the Ames test and the in vivo Micronucleus assay," *Toxicol Lett* **2002**, *135*(1-2):155-163. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TCR-46SFF53-C&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versio n=1&_urlVersion=0&_userid=6729288&md5=a68a7c0495505d1e6ca2753aaa068667.

Abriola LM, Drummond CD, Hahn EJ, Hayes KF, Kibbey TCG, Lemke LD, et al. "Pilot-Scale Demonstration of Surfactant-Enhanced PCE Solubilization at the Bachman Road Site. 1. Site Characterization and Test Design," *Environ Sci Technol* **2005**, *39*(6):1778-1790. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0495819.

Abuin S, Codony R, Compano R, Granados M, and Prat MD. "Analysis of macrolide antibiotics in river water by solid-phase extraction and liquid chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1114*(1):73-81. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TG8-4JD0H4R-

4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=06c5a29759be628ff72a9fed77da6b58.

Abul-Huan N, Powell KJ, Sutak M, Hong M, and Jhamadas KH. "Paradoxical augmentation of morphone antinociception and inhibition of tolerance by ultra-low dose of the opiod antigonist naltrexone," Society for Neuroscience's 30th Annual Meeting, New Orleans, LA, Society for Neuroscience Abstracts, Abstract No-62318. http://sfn.scholarone.com/itin2000/.

Abu-Qare AW, and Abou-Donia MB. "A validated HPLC method for the determination of pyridostigmine bromide, acetaminophen, acetylsalicylic acid and caffeine in rat plasma and urine," *J Pharmaceutical Biomed Anal* **2001**, *26*(5-6):939-947. http://www.sciencedirect.com/science/article/B6TGX-4459VBJ-W/2/aa24e283400ae1d4b21b7b1acd0d13f0.

Accinelli C, Caracciolo AB, and Grenni P. "Degradation of the antiviral drug oseltamivir carboxylate in surface water samples," *Internat J Environ Anal Chem* **2007**, *87*(8):579 - 587. http://www.informaworld.com/10.1080/03067310601151894.

Accinelli C, Hashim M, Epifani R, Schneider RJ, and Vicari A. "Effects of the antimicrobial agent sulfamethazine on metolachlor persistence and sorption in soil," *Chemosphere* **2006**, *63*(9):1539-1545. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4HJRRMX-

2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=d72c478d1fa25ec59ea963150f82c49b.

Accinelli C, Koskinen WC, Becker JM, and Sadowsky MJ. "Environmental fate of two sulfonamide antimicrobial agents in soil," *J Agric Food Chem* **2007**, *55*(7):2677-2682. http://pubs.acs.org/cgi-bin/abstract.cgi/jafcau/2007/55/i07/abs/jf063709j.html.

Ackermann GE, Brombacher E, and Fent K. "Development of a fish reporter gene system for the assessment of estrogenic compounds and sewage treatment plant effluents," *Environ Toxicol Chem* **2002**, *21*(9):1864-1875. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(2002)021%3C1864%3ADOAFRG%3E2.0.CO%3B2.

Actelion Pharmaceuticals Ltd "OSIRIS Property Explorer " 2008. http://www.organicchemistry.org/prog/peo/index.html.

Adam C, Debayle C, Carel D, and Cavalié I. "Radiopharmaceuticals in hospital and household effluent," *Environment, Risques & Sante* **2006**, *5*(4):254-260. http://www.jle.com/en/revues/sante pub/ers/e-docs/00/04/1C/FA/resume.md?type=text.html.

Adam LA. "Confirmation of azaperone and its metabolically reduced form, azaperol, in swine liver by gas chromatography/mass spectrometry," *J AOAC Internat* **1999**, *82*(4):815-824. http://cat.inist.fr/?aModele=afficheN&cpsidt=1203516.

Adams C, Wang Y, Loftin K, and Meyer M. "Removal of antibiotics from surface and distilled water in conventional water treatment processes," *J Environ Eng-ASCE* **2002**, *128*(3):253-260. http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=JOEEDU000128000003000253 000001&idtype=cvips&gifs=yes.

Adams CD. "Modeling the Fate of Pharmaceuticals and Personal Care Products in Sewage Treatment Plants," *Practice Periodical of Haz, Toxic, and Radioactive Waste Management* **2008**, *12*(1):2-9. http://link.aip.org/link/?QHZ/12/2/1.

ADAS. "The safe sludge matrix - guidelines for the application of sewage sludge to agricultural land," Wolverhampton, UK, 2001, pp.

Addamo M, Augugliaro V, Di Paola A, Garcia-Lopez E, Loddo V, Marci G, et al. "Removal of drugs in aqueous systems by photoassisted degradation," *J Appl Electrochem* **2005**, *35*(7):765-774. http://www.springerlink.com/content/n0545513k5448604/.

Addison JB. "Antibiotics in sediments and run-off waters from feedlots," *Residue Rev* **1984**, 92:1-28. http://www.ncbi.nlm.nih.gov/pubmed/6494596.

Adjei MD, Heinze TM, Deck J, Freeman JP, Williams AJ, and Sutherland JB. "Transformation of the Antibacterial Agent Norfloxacin by Environmental Mycobacteria," *Appl Environ Microbiol* **2006**, *72*(9):5790-5793. http://aem.asm.org/cgi/content/abstract/72/9/5790.

Adler NE, Koschorreck J, and Rechenberg B. "Environmental impact assessment and control of pharmaceuticals: the role of environmental agencies," *Wat Sci Technol* **2008**, *57*(1):91-97. http://www.ncbi.nlm.nih.gov/pubmed/18192745

http://services.inist.fr/cgibin/public/views_doc?file=/applis/services/topic/data/00/01/12/55/35400017458978/35400017458978 0120.art&modele=eng/a_view91.htm.

Adler P, Steger-Hartmann T, and Kalbfus W. "Distribution of natural and synthetic estrogenic steroid hormones in water samples from Southern and Middle Germany [Vorkommen natürlicher und synthetischer östrogener Steroide in Wässern des süd- und mitteldeutschen Raumes]," *Acta Hydrochim Hydrobiol* **2001**, *29*(4):227-241. http://cat.inist.fr/?aModele=afficheN&cpsidt=14148051.

Adolfsson-Erici M, Pettersson M, Parkkonen J, and Sturve J. "Triclosan, a commonly used bactericide found in human milk and in the aquatic environment in Sweden," *Chemosphere* **2002**, *46*(9-10):1485-1489. http://www.sciencedirect.com/science/article/B6V74-44J69N3-Y/1/6280dd48ceced203675678203b6c2de9.

Adriaens P, Goovaerts P, Skerlos S, Edwards E, and Egli T. "Intelligent infrastructure for sustainable potable water: a roundtable for emerging transnational research and technology development needs," *Biotech Adv* **2003**, *22*(1-2):119-134. http://www.sciencedirect.com/science/article/B6T4X-49S83BR-1/1/fb98678eaa3c94396e64083f60156abc.

Aerni HR, Kobler B, Rutishauser BV, Wettstein FE, Fischer R, Giger W, et al. "Combined biological and chemical assessment of estrogenic activities in wastewater treatment plant effluents," *Anal Bioanal Chem* **2004**, *378*(7):1873. http://cat.inist.fr/?aModele=afficheN&cpsidt=15463322.

Aga DS. "Mass spectrometric identification of biodegradates of pharmaceuticals in wastewater treatment systems," *Abstracts Papers Am Chem Soc* **2006**, *231*(Mar 26):19. http://www.hilp.de/amoekologie-literatur.pdf.

Aga DS, Ed., "Fate of pharmaceuticals in the environment and in water treatment systems," CRC Press, Taylor & Francis Group, Boca Raton, FL, 2007, 391 pp. http://findarticles.com/p/articles/mi_m0QLT/is_2008_March/ai_n24919373.

Aga DS, Goldfish R, and Kulshrestha P. "Application of ELISA in determining the fate of tetracyclines in land-applied livestock wastes," *Analyst* **2003**, *128*(6):658-662. http://www.ncbi.nlm.nih.gov/pubmed/12866884 http://cat.inist.fr/?aModele=afficheN&cpsidt=14915262.

Aga DS, O'Connor S, Ensley S, Payero JO, Snow D, and Tarkalson D. "Determination of the persistence of tetracycline antibiotics and their degradates in manure-amended soil using enzymelinked immunosorbent assay and liquid chromatography-mass spectrometry," *J Agric Food Chem* **2005**, *53*(18):7165-7171. http://cat.inist.fr/?aModele=afficheN&cpsidt=17121211.

Agerso Y, Bruun MS, Dalsgaard I, and Larsen JL. "The tetracycline resistance gene tet(E) is frequently occurring and present on large horizontally transferable plasmids in Aeromonas spp. from fish farms," *Aquaculture* **2007**, *266*(1-4):47-52. http://www.sciencedirect.com/science/article/B6T4D-4MVF4TX-1/2/d38dad2179f0c0dc4197503c58f60841.

Agerso Y, and Petersen A. "The tetracycline resistance determinant Tet 39 and the sulphonamide resistance gene sulII are common among resistant Acinetobacter spp. isolated from integrated fish

farms in Thailand," *J Antimicrob Chemo* **2007**, *59*(1):23-27. http://jac.oxfordjournals.org/cgi/content/abstract/59/1/23.

Agerso Y, and Sandvang D. "Class1 integrons and tetracycline resistance genes in Alcaligenes, Arthrobacter, and Pseudomonas spp. isolated from pigsties and manured soil," *Appl Environ Microbiol* **2005**, *71*(12):7941-7947. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1317413.

Agerso Y, Sengelov G, and Jensen LB. "Development of a rapid method for direct detection of tet(M) genes in soil from Danish farmland," *Environ Int* **2004**, *30*(1):117-122. http://cat.inist.fr/?aModele=afficheN&cpsidt=15344851.

Agerso Y, Wulff G, Vaclavik E, Halling-Sorensen B, and Jensen LB. "Effect of tetracycline residues in pig manure slurry on tetracycline-resistant bacteria and resistance gene tet(M) in soil microcosims," *Environ Internat* **2006**, *32*(7):876-882.

Agid R, Rubinstein R, Siegal T, Lester H, Bokstein F, Chisin R, et al. "Does streaming affect the cerebral distribution of infraophthalmic intracarotid chemotherapy?," *Am J Neuroradiol* **2002**, *23*(10):1732-1735. http://www.ajnr.org/cgi/content/full/23/10/1732.

Aguayo S, Muñoz MJ, de la Torre A, Roset J, de la Peña E, and Carballo M. "Identification of organic compounds and ecotoxicological assessment of sewage treatment plants (STP) effluents," *Sci Total Environ* **2004**, *328*(1-3):69-81. http://www.sciencedirect.com/science/article/B6V78-4CC30H2-9/1/cba977e49e133d273001a968c4bf16b9.

Aguejouf O, Malfatti E, Belon P, and Doutremepuich C. "Time Related Neutralization of Two Doses Acetyl Salicylic Acid," *Thrombosis Res* **2000**, *100*(4):317-323. http://www.sciencedirect.com/science/article/B6T1C-41V2NF0-8/1/39e48513ffa82c0c662c3c9aa373722b.

Agüera A, Estrada LAP, Ferrer I, Thurman EM, Malato S, and Fernandez-Alba AR. "Application of time-of-flight mass spectrometry to the analysis of phototransformation products of diclofenac in water under natural sunlight," *J Mass Spectrom* **2005**, *40*(7):908-915. http://www3.interscience.wiley.com/journal/110511575/abstract?CRETRY=1&SRETRY=0.

Agüera A, Fernandez-Alba AR, Piedra L, Mezcua M, and Gomez MJ. "Evaluation of triclosan and biphenylol in marine sediments and urban wastewaters by pressurized liquid extraction and solid phase extraction followed by gas chromatography mass spectrometry and liquid chromatography mass spectrometry," *Anal Chimica Acta* **2003**, *480*(2):193-205.

http://www.ingentaconnect.com/content/els/00032670/2003/00000480/0000002/art00040;jsessionid=3174lj7n97fcc.alexandra?format=print.

Agüera A, Mezcua M, Mocholi F, Vargas-Berenguel A, and Fernandez-Alba AR. "Application of gas chromatography-hybrid chemical ionization mass spectrometry to the analysis of diclofenac in wastewater samples," *J Chromatogr A* **2006**, *1133*(1-2):287-292. http://cat.inist.fr/?aModele=afficheN&cpsidt=18206767.

Ahel M, Giger W, Molnar E, and Ibric S. "Determination of nonylphenol polyethoxylates and their lipophilic metabolites in sewage effluents by normal-phase high-performance liquid chromatography

and fluorescence detection," *Croatica Chemica Acta* **2000**, *73*(1):209-227. http://www.vnovak.hr/ccacaa/CCA-PDF/cca2000/v73-n1/cca_73_2000_209-227_Ahel.pdf.

Ahel M, and Jelicic I. "Occurrence of phenazone analgesics in landfill-leachate polluted groundwater," 219th National Meeting of the American Chemical Society, San Francisco, CA, 36. http://crosbi.znanstvenici.hr/prikazi-rad?chset=ASCII&lang=EN&rad=38242.

Ahel M, and Jelicic I. "Phenazone analgesics in soil and groundwater below a municipal solid waste landfill," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 6, 100-115. http://cat.inist.fr/?aModele=afficheN&cpsidt=15816434.

Ahel M, Mikac N, Cosovic B, Prohic E, and Soukup V. "The impact of contamination from a municipal solid waste landfill (Zagreb, Croatia) on underlying soil," *Wat Sci Technol* **1998**, *37*(8):203-210. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VBB-3TB5SHN-2Y&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=14684&md5=af504accf017aa7007a11c6ad061d195.

Ahel T, Mijatovic I, Matosic M, and Ahel M. "Nanofiltration of a landfill leachate containing pharmaceutical intermediates from vitamin C production," *Food Technol Biotechnol* **2004**, *42*(2):99-104.

Aherne GW, and Briggs R. "The relevance of the presence of certain synthetic steroids in the aquatic environment," *J Pharm Pharmacol* **1989**, *41*(10):735-736. http://www.ncbi.nlm.nih.gov/pubmed/2575159.

Aherne GW, Hardcastle A, and Nield AH. "Cytotoxic drugs and the aquatic environment: estimation of bleomycin in river and water samples," *J Pharm Pharmacol* **1990**, *42*(10):741-742. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=2490766.

Ahlers J, Riedhammer C, Vogliano M, Ebert RU, Kuhne R, and Schuurmann G. "Acute to chronic ratios in aquatic toxicity - variation across trophic levels and relationship with chemical structure," *Environ Toxicol Chem* **2006**, *25*(11):2937-2945. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F05-701R.1.

Ahmad BS, and Barton PI. "Solvent recovery targeting," *AlChE Journal* **1999**, *45*(2):335-349. http://www3.interscience.wiley.com/journal/108067876/abstract?CRETRY=1&SRETRY=0.

Ahmad K. "WHO releases stricter guidelines on emergency drug donations," *The Lancet* **1999**, *354*(9182):928-928. http://www.sciencedirect.com/science/article/B6T1B-4FWM0C9-59/1/2c3a3fd2a887fdba1670f7a1c1ee7cd7.

Ahmed S, and Othman OE. "Clastogenic effects of the fasciolicide drug fasinex on river buffalo lymphocyte cultures in vitro," *Mutation Res/Genetic Toxicol Environ Mutagenesis* **2003**, *541*(1-2):115-121. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T2D-49N0GP7-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=1319c59afbcb5162557454117eeb84e8. Ahmed SA. "The immune system as a potential target for environmental estrogens (endocrine disrupters): a new emerging field," *Toxicology* **2000**, *150*(1-3):191-206. http://www.sciencedirect.com/science/article/B6TCN-4177K4C-J/2/c0e82633ded65a8a5ca43d5070bb6593.

Ahmed W, Tucker J, Harper J, Neller R, and Katouli M. "Comparison of the efficacy of an existing versus a locally developed metabolic fingerprint database to identify non-point sources of faecal contamination in a coastal lake," *Wat Res* **2006**, *40*(12):2339-2348. http://www.sciencedirect.com/science/article/B6V73-4K4PSJ6-3/2/776fa81be44657962c5ebc5437b81e0c.

Ahrer W, and Buchberger W. "Analysis of acidic pharmaceutical drug residues in surface water by capillary electrophoresis-electrospray mass spectrometry," *Am Lab* **2001**, *33*(24):31-35.

Ahrer W, and Buchberger W. "Combination of aqueous and non-aqueous capillary electrophoresis with electrospray mass spectrometry for the determination of drug residues in water," *Monatshefte Fur Chemie [Chem Monthly]* **2001**, *132*(3):329-337. http://www.springerlink.com/content/jtpegcnemk24kg9t/.

Ahrer W, Scherwenk E, and Buchberger W. "Determination of drug residues in water by the combination of liquid chromatography or capillary electrophoresis with electrospray mass spectrometry," *J Chromatogr A* 2001, *910*(1):69-78. http://www.ingentaconnect.com/content/els/00219673/2001/00000910/00000001/art01187;jsessionid= 9005675fqh68p.alice?format=print http://openurl.ingenta.com/content?genre=article&issn=0021-9673&volume=910&issue=1&spage=69&epage=78 http://dx.doi.org/10.1016/S0021-9673(00)01187-0

Aiello AE, and Larson E. "Antibacterial cleaning and hygiene products as an emerging risk factor for antibiotic resistance in the community," *Lancet Infectious Diseases* **2003**, *3*(8):501-506. http://www.sciencedirect.com/science/article/B6W8X-49603V6-T/1/528d75cda27ebe48a53d5c9270324a89.

Aiello AE, Larson EL, and Levy SB. "Consumer antibacterial soaps: effective or just risky?," *Clin Infect Dis* **2007**, *45*(2):137-147. http://deepblue.lib.umich.edu/handle/2027.42/55477.

Aiello AE, Marshall B, Levy SB, Della-Latta P, and Larson E. "Relationship between triclosan and susceptibilities of bacteria isolated from hands in the community," *Antimicrob Agents Chemother* **2004**, *48*(8):2973-2979. http://aac.asm.org/cgi/content/abstract/48/8/2973.

Airhart MJ, Lee DH, Wilson TD, Miller BE, Miller MN, and Skalko RG. "Movement disorders and neurochemical changes in zebrafish larvae after bath exposure to fluoxetine (PROZAC)," *Neurotoxicol Teratol* **2007**, *29*(6):652-664. http://www.sciencedirect.com/science/article/B6T9X-4P7782W-1/1/4b248df24d18f879fe929cebd77869d4.

Ait-Aissa S, Porcher JM, Arrigo AP, and Lambre C. "Activation of the hsp70 promoter by environmental inorganic and organic chemicals: relationships with cytotoxicity and lipophilicity," *Toxicology* **2000**, *145*(2-3):147-157. http://www.sciencedirect.com/science/article/B6TCN-401HF7C-6/2/7e108e44cfebbeebca5b0b698e75cc03.

Akaishi FM, St-Jean SD, Bishay F, Clarke J, Rabitto IdS, and Ribeiro CAdO. "Immunological responses, histopathological finding and disease resistance of blue mussel (Mytilus edulis) exposed to treated and untreated municipal wastewater," *Aqua Toxicol* **2007**, *82*(1):1-14. http://www.sciencedirect.com/science/article/B6T4G-4MYMFNY-1/2/82d1eab27e403d16441d633d55454914.

Akmehmet BalcIoglu I, and Ötker M. "Treatment of pharmaceutical wastewater containing antibiotics by O3 and O3/H2O2 processes," *Chemosphere* **2003**, *50*(1):85-95. http://www.sciencedirect.com/science/article/B6V74-473M74G-D/1/6c3a6ddd50fefd3719bbbdc59ed31421.

Aksu Z, and Tunc O. "Application of biosorption for penicillin G removal: comparison with activated carbon," *Process Biochem* **2005**, *40*(2):831-847. http://cat.inist.fr/?aModele=afficheN&cpsidt=16240361.

Akter N. "Medical waste management: A review," Asian Institute of Technology, School of Environment, Resources and Development, Environmental Engineering Program, Khlongluang, Pathumthani, Thailand, January, 2000, 25 pp.

Al Shafie A. "Sorption of 17alpha-ethynylestradiol in different soil environments "Doctoral Dissertation, Concordia University (Canada), 2007. 148 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2231907 ,FM=9,SEARCH=MD.GenericSearch.

Al Zabadi H, Ferrari L, Laurent AM, Tiberguent A, Paris C, and Zmirou-Navier D. "Biomonitoring of complex occupational exposures to carcinogens: the case of sewage workers in Paris," *BMC Cancer* **2008**, 8:67. http://www.ncbi.nlm.nih.gov/pubmed/18325085.

Alagoz BAZ, Kocasoy G, and Kilic M. "Remedial measures for the safe management of the health-care wastes in Istanbul," *Fres Environ Bull* **2006**, *15*(8A, SI):763-770.

Al-Ahmad A, Daschner FD, and Kummerer K. "Biodegradability of cefotiam, ciprofloxacin, meropenem, penicillin G, and sulfamethoxazole and inhibition of waste water bacteria," *Arch Environ Contam Toxicol* **1999**, *37*(2):158-163. http://cat.inist.fr/?aModele=afficheN&cpsidt=1919129.

Al-Ahmad A, and Kümmerer K. "Biodegradation of the antineoplastics vindesine, vincristine, and vinblastine and their toxicity against bacteria in the aquatic environment," *Cancer Detect Prev* **2001**, *25*(1):102-107. http://www.ncbi.nlm.nih.gov/pubmed/11270417.

Al-Ahmad A, and Kümmerer K. "Biodegradability of antibiotics and effects on waste water treatment bacteria," DIA workshop on Environ risk assessment of non-GMO pharmaceuticals, London, England, 12-13 February, 2001.

Alaton IA, Dogruel S, Baykal E, and Gerone G. "Combined chemical and biological oxidation of penicillin formulation effluent," *J Environ Management* **2004**, *73*(2):155-163. http://www.sciencedirect.com/science/article/B6WJ7-4D58BB9-1/2/cd446f09d9811f3e468db3e6af0caa27. Alberts B. "Science and human needs," President's Address to the National Academy of Sciences, 137th Annual Meeting, Washington, DC, 1 May, 2000, http://www.nasonline.org/site/DocServer/2000address.pdf?docID=982.

Albertus JA, and Laine RO. "Enhanced xenobiotic transporter expression in normal teleost hepatocytes: response to environmental and chemotherapeutic toxins," *J Exp Biol* **2001**, *204*(2):217-227. http://jeb.biologists.org/cgi/content/abstract/204/2/217.

Alcock RE, Sweetman A, and Jones KC. "Assessment of organic contaminant fate in waste water treatment plants I: Selected compounds and physicochemical properties," *Chemosphere* **1999**, *38*(10):2247-2262.

Alder AC, Golet E, and Ibric S. "Occurrence of fluoroquinolone in municipal wastewaters," *Environ Toxicol Chem* **1998**, *17*:377-382.

Alder AC, McArdell CS, Golet EM, Ibric S, Molnar E, Nipales NS, et al. "Occurrence and fate of fluoroquinolone, macrolide, and sulfonamide antibiotics during wastewater treatment and in ambient waters in Switzerland," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 3, 56-69.

Al-Dirbashi O, Qvarnstrom J, Irgum K, and Nakashima K. "Simple and sensitive high-performance liquid chromatographic determination of methamphetamines in human urine as derivatives of 4-(4,5-diphenyl-1H-imidazol-2-yl) benzoyl chloride, a new fluorescence derivatization reagent," *J Chromatogr B: Biomed Sci Applications* **1998**, *712*(1-2):105-112. http://www.sciencedirect.com/science/article/B6TG9-3T16RHH-1K/2/e56636d663ebab2cb6c32951dc6d18b1.

Aleong SF. "Green medicine: using lessons from tort law and environment law to hold pharamaceutical manufacturers and authorized distributors liable for injuries caused by counterfeit drugs," 2007 or 2008, 38 pp.

http://works.bepress.com/cgi/viewcontent.cgi?article=1000&context=stephanie_aleong.

Alexander SPH, Mathie A, and Peters JA. "Guide to receptors and channels (GRAC)," *Br J Pharmacol* **2008**, *153*(Auppl 2):S1-S209. http://www.nature.com/bjp/journal/vgrac/ncurrent/index.html.

Alexoff DL, Vaska P, Marsteller D, Gerasimov T, Li J, Logan J, et al. "Reproducibility of 11Craclopride binding in the rat brain measured with the microPET R4: effects of scatter correction and tracer specific activity," *J Nuc Med* **2003**, *44*(5):815-822. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12732684.

Alexy R, Kümpel T, Dörner M, and Kümmerer K. "Effects of antibiotics against environmental bacteria studied with simple tests - Are they suitable?," 11th Annual Meeting of SETAC, Madrid, Spain, 6-10 May, 2001.

Alexy R, Kumpel T, and Kümmerer K. "Assessment of degradation of 18 antibiotics in the Closed Bottle Test," *Chemosphere* **2004**, *57*(6):505-512.

http://www.sciencedirect.com/science/article/B6V74-4D5XC01-1/2/600412d7221af829efd1ff1e79856bfb.

Alexy R, Längin A, Schöll A, Sütterlin H, and Kümmerer K. "Pharmazeutische Wirkstoffe, Desinfektionsmittel und Diagnostika mit besonderen strukturellen Eigenschaften in der Umwelt [Pharmaceutical active substances, disinfectants and Diagnostika with special structural characteristics in the environment]," Universitätsklinikum Freiburg Institut für Umweltmedizin und Krankenhaushygiene, Projekt KU 1271/2-2, July, 2006, 202 pp. http://www.mein-klinikum.de/iuk/live/umweltforschung/projekte/DFG_2.pdf.

Alexy R, Sommer A, Lange FT, and Kümmerer K. "Local use of antibiotics and their input and fate in a small sewage treatment plant - significance of balancing and analysis on a local scale vs. nationwide scale," *Acta Hydrochim Hydrobiol* **2006**, *34*(6):587-592. http://cat.inist.fr/?aModele=afficheN&cpsidt=18474785.

Algros E, and Jourdain M-J. "Potential contamination of sample from wastewater treatment plants (raw and treated water, sludge) and effluents from breeding by human and veterinary pharmaceutical drugs," ADEME IRH Environment, 2007, pp.

Algros E, and Jourdain M-J. "Contamination potentielle des échantillons de stations d'épuration (eaux brutes, eaux traitées, boues) et effluents d'élevage par des molécules pharmaceutiques à usage humain et vétérinaire [Potential contamination of sample from wastewater treatment plants (raw and treated water, sludge) and effluents from breeding by human and veterinary pharmaceutical drugs]," Convention n°04 75 C 0062, February 20, 2007, 180 pp.

Algros E, and Jourdain M-J. "Contamination potentielle des boues de stations d'épuration et effluents d'élevage par des molécules pharmaceutiques à usage humain et vétérinaire [Potential contamination of sludge and effluents of breeding by human and veterinary pharmaceutical drugs]," Convention n°04 75 C 0062, February 20, 2007, 124 pp.

Ali I, Gupta VK, Singh P, and Pant HV. "RPTLC analysis of haloperidol and its metabolites in wastewater after solid-phase extraction," *J Planar Chromatogr - Modern TLC* **2005**, *18*(105):388-390. http://www.akademiai.com/content/f1115161uk6721u1/.

Ali I, Gupta VK, Singh P, and Pant HV. "Screening of domperidone in wastewater by high performance liquid chromatography and solid phase extraction methods," *Talanta* **2006**, *68*(3):928-931. http://www.sciencedirect.com/science/article/B6THP-4GP7P2F-4/2/5bffd9395e95298cf43b4a4f43496885.

Aljinovic-Vucic V, Trkulja V, and Lackovic Z. "Content of home pharmacies and self-medication practices in households of pharmacy and medical students in Zagreb, Croatia: findings in 2001 with a reference to 1977," *Croat Med J* **2005**, *46*(1):74-80.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15726679.

Allaire SE, Del Castillo J, and Juneau V. "Sorption kinetics of chlortetracyline and tylosin on sandy loam and heavy clay soils," *J Environ Qual* **2006**, *35*(July-August):969-972. http://jeq.scijournals.org/cgi/content/full/35/4/969.

Allard AS, Gunnarsson M, and Svenson A. "Estrogenicity in bile of juvenile rainbow trout as measure of exposure and potential effects of endocrine disruptors," *Environ Toxicol Chem* **2004**, *23*(5):1187-1193. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F03-210.

Allen Y, Scott AP, Matthiessen P, Haworth S, Thain JE, and Feist S. "Survey of estrogenic activity in United Kingdom estuarine and coastal waters and its effects on gonadal development of the flounder platichthys flesus," *Environ Toxicol Chem* **1999**, *18*(8):1791-1800. http://dx.doi.org/10.1897%2F1551-5028%281999%29018%3C1791%3ASOEAIU%3E2.3.CO%3B2.

Allmyr M, Adolfsson-Erici M, McLachlan MS, and Sandborgh-Englund G. "Triclosan in plasma and milk from Swedish nursing mothers and their exposure via personal care products," *Sci Total Environ* **2006**, *372*(1):87-93. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-4M04J06-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=e2e7ad680f5314f69e6ec82d99ed0744.

Allner B, Wegener G, Knacker T, and Stahlschmidt-Allner P. "Electrophoretic determination of estrogen-induced protein in fish exposed to synthetic and naturally occurring chemicals," *Sci Total Environ* **1999**, *233*(1-3):21-31. http://www.sciencedirect.com/science/article/B6V78-3X7V32R-3/1/ff0bb5fc42661b1588f6a74b471dc6b9.

Almasi A, Fischer E, and Perjesi P. "A simple and rapid ion-pair HPLC method for simultaneous quantitation of 4-nitrophenol and its glucuronide and sulfate conjugates," *J Biochemical and Biophysical Methods* **2006**, *69*(1-2):43-50. http://www.sciencedirect.com/science/article/B6T28-4JWWY8P-2/2/4a44a9d9ed4c311a6e1b45fc27c542a9.

Almeida C, and Nogueira JMF. "Determination of steroid sex hormones in water and urine matrices by stir bar sorptive extraction and liquid chromatography with diode array detection," *Journal of Pharmaceutical and Biomedical Analysis* **2006**, *41*(4):1303-1311. http://www.sciencedirect.com/science/article/B6TGX-4JMKMTR-1/2/0758ddb4e4d6c4cf0a8301895c90924b.

Almeida E, Regina M, Rosa MA, and Duran N. "Wastewater treatment by oxidation with ozone," *Quimica Nova* **2004**, *27*(5):818-824. http://www.scielo.br/scielo.php?pid=S0100-40422004000500023&script=sci_abstract.

Almqvist H, and Hanaeus J. "Organic hazardous substances in graywater from swedish households," *J Environ Eng-ASCE* **2006**, *132*(8):901-908. http://cat.inist.fr/?aModele=afficheN&cpsidt=17972571.

Almroth BC, Sturve J, and Förlin L. "Oxidative damage in rainbow trout caged in a polluted river," *Mar Environ Res* **2008**, *66*(1):90-91. http://www.sciencedirect.com/science/article/B6V7H-4RXJYR7-X/1/b824313d83436441755478df89aa4dde.

Alohan FI. "Responses of two proboscis muscles of neptunea antiqua (mollusca) to some calcium antagonist drugs," *Comp Biochem Physiol* **1993**, *105C*(3):463-469. http://cat.inist.fr/?aModele=afficheN&cpsidt=3885418.

Alonso A, Sanchez P, and Martinez JL. "Environmental selection of antibiotic resistance genes: Minireview," *Environ Microbiol* **2001**, *3*(1):1-9. http://www.ingentaconnect.com/content/bsc/emi/2001/0000003/00000001/art00001 http://dx.doi.org/10.1046/j.1462-2920.2001.00161.x.

Al-Rifai JH, Gabelish CL, and Schafer AI. "Occurrence of pharmaceutically active and non-steroidal estrogenic compounds in three different wastewater recycling schemes in Australia," *Chemosphere* **2007**, *69*(5):803-815. http://www.sciencedirect.com/science/article/B6V74-4P1274J-4/2/a0d44775c033966226564d2e965462f3.

Al-Salabi MI, Wallace LJM, and de Koning HP. "A Leishmania major nucleobase transporter responsible for allopurinol uptake is a functional homolog of the Trypanosoma brucei H2 transporter " *Molecular Pharmacol* **2003**, *63*(4):814-820. http://molpharm.aspetjournals.org/cgi/content/abstract/63/4/814.

Alslev B, Korspaard B, and Bjerregaard P. "Estrogenicity of butylparaben in rainbow trout Oncorhynchus mykiss exposed via food and water," *Aqua Toxicol* **2005**, *72*(4):295-304. http://cat.inist.fr/?aModele=afficheN&cpsidt=16745332.

Alsop D, Van Der Kraak GJ, Brown SB, Eales JG, Mommsen TP, and Moon TW. "The biology and toxicology of retinoids in fish," in *Biochem Molecular Biol of Fishes*, Elsevier, 2005, Chapter 15, 413-428. http://www.sciencedirect.com/science/article/B8H2T-4P40HRD-M/2/d02e56b182d05a1c3ae9e4d60386546a.

Alsop DH, Brown SB, and VanDerKraak GJ. "Dietary Retinoic Acid Induces Hindlimb and Eye Deformities in Xenopus laevis," *Environ Sci Technol* **2004**, *38*(23):6290-6299. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es049765n.

Altenburger R, Boedeker W, Faust M, and Grimme LH. "Regulations for Combined Effects of Pollutants: Consequences From Risk Assessment in Aquatic Toxicology," *Food Chem Toxicol* **1996**, *34*(11):1155-1157. http://www.ingentaconnect.com/content/els/02786915/1996/00000034/00000011/art00088 http://dx.doi.org/10.1016/S0278-6915(97)00088-4.

Altenburger R, Walter H, and Grote M. "What Contributes to the Combined Effect of a Complex Mixture?," *Environ Sci Technol* **2004**, *38*(23):6353-6362. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es049528k.

Alum A, Yoon Y, Westerhoff P, and Abbaszadegan M. "Oxidation of bisphenol A, 17β -estradiol, and 17α -ethynyl estradiol and byproducts estrogenicity," *Environ Toxicol Chem* **2004**, *19*(3):257-264. http://www3.interscience.wiley.com/journal/108069100/abstract?CRETRY=1&SRETRY=0.

Alvarez D, Jones-Lepp T, Stackelberg PE, Petty J, Huckins J, Furlong ET, et al. "Water quality monitoring of pharmaceuticals and personal care products using passive samplers," Environmental Aspects of Pharmaceuticals and Personal Care Products, Philadelphia, PA, 1307-1310. http://epa.gov/nerlesd1/bios/daughton/alvarez.pdf.

Alvarez DA, Cranor W, Perkins S, Schroeder V, Werner S, Furlong E, et al. "Reconnaissance of Persistent and Emerging Contaminants in the Shenandoah and James River Basins, Virginia, During Spring of 2007," Interior UDot and USGS, Open-File Report 2008-1231, 2008. http://pubs.usgs.gov/of/2008/1231/pdf/OF2008-1231.pdf. Alvarez DA, Cranor WL, Perkins SD, Clark RC, and Smith SB. "Chemical and toxicologic assessment of organic contaminants in surface water using passive samplers," *J Environ Qual* **2008**, *37*(3):1024-1033. http://jeq.scijournals.org/cgi/content/abstract/37/3/1024.

Alvarez DA, Cranor WL, Perkins SD, Schroeder VL, Werner S, Furlong ET, et al. "Investigation of Organic Chemicals Potentially Responsible for Mortality and Intersex in Fish of the North Fork of the Shenandoah River, Virginia, during Spring of 2007," US Department of the Interior and USGS, Open-File Report 2008–1093, 2008. http://www.fnfsr.org/site/Fish%20Kill%20Investigation.html.

Alvarez DA, Huckins JN, Petty JD, Jones-Lepp TL, Stuer-Lauridsen F, Getting DT, et al. "Tool for monitoring hydrophilic contaminants in water: polar organic chemical integrative sampler (POCIS) " *Passive Sampling Techniques: Comprehensive Analytical Chemistry* **2007**, *48*:171-197. http://www.elsevier.com/wps/find/bookdescription.cws home/711413/description#description.

Alvarez DA, Petty JD, and Huckins JN. "Development of an Integrative Sampler for Polar Organic Chemicals in Water, Paper #4, Issues in the Analysis of Environmental Endocrine Disruptors," 219th National Meeting of the AmChemical Society, San Francisco, CA, 27 March, 2000, 40 71-74.

Alvarez DA, Petty JD, Huckins JN, Jones-Lepp TL, Getting DT, and Manahan SE. "Development of a passive, in situ, integrative sampler for hydrophilic organic contaminants in aquatic environments," *Environ Toxicol Chem* **2004**, *23* (7):1640-1648. http://etc.allenpress.com/entconline/?request=get-document&issn=0730-7268&volume=023&issue=07&page=1640

Alvarez DA, Stackelberg PE, Petty JD, Huckins JN, Furlong ET, Zaugg SD, et al. "Comparison of a novel passive sampler to standard water-column sampling for organic contaminants associated with wastewater effluents entering a New Jersey stream," *Chemosphere* **2005**, *61*(5):610-622. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4G1WY12-6&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_version=1&_urlVersion=0& userid=6729288&md5=0f05e0f9f13623df615798a5519dfcad.

Aly FA, Al-Tamimi SA, and Alwarthan AA. "Determination of flufenamic acid and mefenamic acid in pharmaceutical preparations and biological fluids using flow injection analysis with tris(2,2'-bipyridyl)ruthenium(II) chemiluminescence detection," *Anal Chimica Acta* **2000**, *416*(1):87-96. http://www.sciencedirect.com/science/article/B6TF4-40GHRJT-B/2/8b1f226f180b67516b06d9cc82aa4d49.

Alzieu C, and Romana LA. "Pharmaceuticals: New contaminants of the marine environment?," *Environment, Risques & Sante* **2006**, *5*(4):330-324. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/07/resume.md?type=text.html.

Amalric L, and Bristeau S. "Determination of pharmaceutical compounds in surface and ground waters in Loire-Bretagne basin," BRGM, BRGM/RP-55578-FR, Orleans, France, 2007, pp.

Aman CS, Pastor A, Cighetti G, and de la Guardia M. "Development of a multianalyte method for the determination of anabolic hormones in bovine urine by isotope-dilution GC-MS/MS," *Anal Bioanal Chem* **2006**, *386*(6):1869-1879. http://cat.inist.fr/?aModele=afficheN&cpsidt=18299617.

Amanuma K, Tone S, Nagaya M, Matsumoto M, Watanabe T, Totsuka Y, et al. "Mutagenicity of 2-[2-(acetylamino)-4-[bis(2-hydroxyethyl)amino]-5-methoxyphenyl]- 5-amino-7-bromo-4-chloro-2H-

benzotriazole (PBTA-6) and benzo[a]pyrene (BaP) in the gill and hepatopancreas of rpsL transgenic zebrafish," Mutation Res/Genetic Toxicol Environ Mutagenesis 2008, In Press, Accepted Manuscript http://www.sciencedirect.com/science/article/B6T2D-4T0FFC2-1/1/a1b3ffaa05b5feb238356a9151a31c13.

Amanzio M, and Benedetti F. "Neuropharmacological dissection of placebo analgesia: Expectationactivated opioid systems versus conditioning-activated specific subsystems," J Neurosci 1999, 19(1):484-494. http://www.jneurosci.org/cgi/content/full/19/1/484.

Amaral L. "Reversal of antibiotic resistance by non-antibiotic antimicrobial agents," Antibiotics *Chemotherapy* **2000**, *4*(2):4.

Amaral Mendes JJ. "The endocrine disrupters: a major medical challenge," Food Chem Toxicol 2002, 40(6):781-788. http://www.ingentaconnect.com/content/els/02786915/2002/00000040/00000006/art00018 http://dx.doi.org/10.1016/S0278-6915(02)00018-2.

Ambrosi A, Antiochia R, Campanella L, Dragone R, and Lavagnini I. "Electrochemical determination of pharmaceuticals in spiked water samples," J Haz Mat 2005, 122(3):219-225. http://www.sciencedirect.com/science? ob=ArticleURL& udi=B6TGF-4G002MX-2& user=6729288& rdoc=1& fmt=& orig=search& sort=d&view=c& acct=C000001678& version =1& urlVersion=0& userid=6729288&md5=a8d09588dad168a977186311d0b81eb0.

American Public Health Association, Center for Science in the Public Interest, Environmental Defense, Global Resource Action Center for the Environment, Institute for Agriculture and Trade Policy, Natural Resources Defense Council, et al. "Letter to the U.S. Environmental Protection Agency," 2000:3.

Amidon GL, Lennernas H, Shah VP, and Crison JR. "A theoretical basis for a biopharmaceutic drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability," Pharm Res 1995, 12(3):413-420. http://www.ncbi.nlm.nih.gov/pubmed/7617530.

Amin MM, Zilles JL, Greiner J, Charbonneau S, Raskin L, and Morgenroth E. "Influence of the Antibiotic Erythromycin on Anaerobic Treatment of a Pharmaceutical Wastewater," Environ Sci Technol 2006, 40(12):3971-3977.

http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es060428j.

Aminov RI, Chee-Sanford JC, Garrigues N, Teferedegne B, Krapac IJ, White BA, et al. "Development, Validation, and Application of PCR Primers for Detection of Tetracycline Efflux Genes of Gram-Negative Bacteria," Appl Environ Microbiol 2002, 68(4):1786-1793. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pmcentrez&artid=123860.

Amiri M, Shahrokhian S, Psillakis E, and Marken F. "Electrostatic accumulation and determination of triclosan in ultrathin carbon nanoparticle composite film electrodes," Anal Chim Acta 2007, 593(1):117-122. http://www.sciencedirect.com/science/article/B6TF4-4NN0WD4-1/2/0ccf4933e9fd72b037d09fbbc3381b7c.

Amore BM, Kalhorn TF, Skiles GL, Hunter AP, Bennett GD, Finnell RH, et al. "Characterization of Carbamazepine Metabolism in a Mouse Model of Carbamazepine Teratogenicity," *Drug Metab Dispos* **1997**, *25*(8):953-962. http://dmd.aspetjournals.org/cgi/content/abstract/25/8/953.

An L, Hu J, and Yang M. "Evaluation on Estrogenicity of Sewage Effluent and Reclaimed Water Using Vitellogenin as a Biomarker," *Environ Toxicol Chem* **2007**, *27*(1):154-158. http://dx.doi.org/10.1897%2F07-096.

Andersen H, Siegrist H, Halling-Sørensen B, and Ternes TA. "Fate of estrogens in a municipal sewage treatment plant," *Environ Sci Technol* **2003**, *37*(18):4021-4026. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i18/abs/es026192a.html.

Andersen HR, and D'Aco V. "Bounding analysis for EE2 concentrations in surface water and the 'sewage cycle' " **2008**.

Andersen HR, Hansen M, Kjolholt J, Stuer-Lauridsen F, Ternes T, and Halling-Sorensen B. "Assessment of the importance of sorption for steroid estrogens removal during activated sludge treatment," *Chemosphere* **2005**, *61*(1):139-146.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4G0YT8P-3&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_version=1&_urlVersion=0& _userid=6729288&md5=57eac9a0a5a4b63d2a4ea8c55019099f.

Andersen HR, Wollenberger L, Halling-S, oslash, rensen B, and Kusk KO. "Development of copepod nauplii to copepodites - a parameter for chronic toxicity including endocrine disruption," *Environ Toxicol Chem* **2001**, *20*(12):2821-2829. http://dx.doi.org/10.1897%2F1551-5028%282001%29020%3C2821%3ADOCNTC%3E2.0.CO%3B2.

Andersen L, Goto-Kazeto R, Trant JM, Nash JP, Korsgaard B, and Bjerregaard P. "Short-term exposure to low concentrations of the synthetic androgen methyltestosterone affects vitellogenin and steroid levels in adult male zebrafish (Danio rerio)," *Aqua Toxicol* **2006**, *76*(3-4):343-352. http://www.sciencedirect.com/science/article/B6T4G-4HSXVS4-1/1/bbd951cb74af98bc2263fd3ffd244fd6.

Andersen L, Holbech H, Gessbo, Norrgren L, and Petersen GI. "Effects of exposure to 17alphaethinylestradiol during early development on sexual differentiation and induction of vitellogenin in zebrafish (Danio rerio)," *Comp Biochem Physiol Part C* **2003**, *134*:365-374. http://www.ingentaconnect.com/content/els/15320456/2003/00000134/00000003/art00006 http://dx.doi.org/10.1016/S1532-0456(03)00006-1 http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W89-4845KVF-5&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=9e3258c38f4ac14b60bd708581e0af60.

Andersen SR, and Sandaa RA. "Distribution of Tetracycline Resistance Determinants among Gram-Negative Bacteria Isolated from Polluted and Unpolluted Marine Sediments," *Appl Environ Microbiol* **1994**, *60*(3):908-912. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=201409.

Anderson PD. "Technical Brief: Endocrine Disrupting Compounds and Implications for Wastewater Treatment," Water Environment Research Foundation (WERF), 2005, 48 pp.

http://www.werf.org/AM/Template.cfm?Section=Home&TEMPLATE=/CM/ContentDisplay.cfm&C ONTENTID=5045.

Anderson PD, D'Aco VJ, Shanahan P, Chapra SC, Buzby ME, Cunningham VL, et al. "Screening analysis of human pharmaceutical compounds in US surface waters," *Environ Sci Technol* **2004**, *38*(3):838-849. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i03/abs/es034430b.html.

Andersson C, Katsiadaki I, Lundstedt-Enkel K, and Orberg J. "Effects of 17α-ethynylestradiol on EROD activity, spiggin and vitellogenin in three-spined stickleback (Gasterosteus aculeatus)," *Aqua Toxicol* **2007**, *83*(1):33-42. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4N919HJ-

1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=62b61d2de2d60912472f8f04c7346b48.

Andersson J, Woldegiorgis A, Remberger M, Kaj L, Ekheden Y, Dusan B, et al. "Results from the Swedish national screening programme 2005 - Sub report 1 antibiotics, anti-inflammatory substances and hormones," IVL Swedish Environmental Research Institute Ltd, Stockholm, Sweden, September 18, 2006, 100 pp. http://www3.ivl.se/rapporter/pdf/B1689.pdf.

Ando T, Nagase H, Eguchi K, Hirooka T, Nakamura T, Miyamoto K, et al. "A novel method using cyanobacteria for ecotoxicity test of veterinary antimicrobial agents," *Environ Toxicol Chem* **2007**, *26*(4):601-606. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F06-195R.1.

Andow D, Daniell H, Gepts P, Lamkey K, Natziger E, and Strayer D. "A Growing Concern -*Protecting the Food Supply in an Era of Pharmaceutical and Industrial Crops*" Union of Concerned Scientists, Andow D, Ed., Cambridge, MA, 2004, 132 pp.

http://www.ucsusa.org/food_and_environment/genetic_engineering/pharmaceutical-and-industrial-crops-a-growing-concern.html.

Andreadakis AD, Kalergis CM, Kartsonas N, and Anagnostopoulos D. "Determination of the impact of toxic inflows on the performance of activated sludge by wastewater characterization," *Wat Sci Technol* **1997**, *36*(2):45-52.

http://www.ingentaconnect.com/content/els/02731223/1997/00000036/0000002/art00368 http://dx.doi.org/10.1016/S0273-1223(97)00368-5.

Andremont A, Brun-Buisson C, and Struelens M. "Evaluating and predicting the ecologic impact of antibiotics," *Clin Microbiol Infect* **2001**, *7*(5):1-6. http://www.ingentaconnect.com/content/bsc/clm/2001/0000007/0000005/art00065.

Andreozzi R, Campanella L, Fraysse B, Garric J, Gonnella A, Lo Giudice R, et al. "Effects of advanced oxidation processes (AOPs) on the toxicity of a mixture of pharmaceuticals," *Wat Sci Technol* **2004**, *50*(5):23-28. http://www.ncbi.nlm.nih.gov/pubmed/15497825.

Andreozzi R, Canterino M, Lo Giudice R, Marotta R, Pinto G, and Pollio A. "Lincomycin solar photodegradation, algal toxicity and removal from wastewaters by means of ozonation," *Wat Res* **2006**, *40*(3):630-638. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4J021HB-

4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_version=1&_urlVersion=0& _userid=6729288&md5=7210c50d31fe065e7181088d44b4c681.

Andreozzi R, Canterino M, Marotta R, and Paxeus N. "Antibiotic removal from wastewaters: the ozonation of amoxicillin," *J Haz Mat* **2005**, *122*(3):243-250. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGF-4FTXXKX-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=c3dab9e8c4e74c7036b518a4b394c92d.

Andreozzi R, Caprio V, Ciniglia C, De Champdore M, Lo Giudice R, Marotta R, et al. "Antibiotics in the environment: Occurrence in Italian STPs, fate, and preliminary assessment on algal toxicity of amoxicillin," *Environ Sci Technol* **2004**, *38*(24):6832-6838. http://cat.inist.fr/?aModele=afficheN&cpsidt=16358042.

Andreozzi R, Caprio V, Marotta R, and Radovnikovic A. "Ozonation and H₂O₂/UV treatment of clofibric acid in water: A kinetic investigation," *J Haz Mat* **2003**, *103*(3):233-246. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGF-49KH185-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=3ddf228ae6e9d8a6cb290d6fda531ca0.

Andreozzi R, Caprio V, Marotta R, and Vogna D. "Paracetamol oxidation from aqueous solutions by means of ozonation and H₂0₂/UV system," *Wat Res* **2003**, *37*(5):993-1004. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-47RRKDX-5&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=16212a9f31e87d2078775a9dd0b1b3a9.

Andreozzi R, Cesaro R, Marotta R, and Pirozzi F. "Evaluation of biodegradation kinetic constants for aromatic compounds by means of aerobic batch experiments," *Chemosphere* **2006**, *62*(9):1431-1436. http://www.sciencedirect.com/science/article/B6V74-4GNKR8D-2/1/f77c38dc67dda0d476acf42ae6cbab79.

Andreozzi R, Marotta R, Pinto G, and Pollio A. "Carbamazepine in water: persistence in the environment, ozonation treatment and preliminary assessment on algal toxicity," *Wat Res* **2002**, *36*(11):2869-2877. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-44PDC2J-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=cbe6f858b2be4d55be19a22fc708c049.

Andreozzi R, Raffaele M, and Nicklas P. "Pharmaceuticals in STP effluents and their solar photodegradation in aquatic environment," *Chemosphere* **2003**, *50*(10):1319-1330. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-47T89DW-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=f08f6961191e56fc2a9c500bcaec381b.

Andresen JA, Muir D, Ueno D, Darling C, Theobald N, and Bester K. "Emerging pollutants in the north sea in comparison to Lake Ontario, Canada, data," *Environ Toxicol Chem* **2007**, *26*(6):1081-1089. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F06-416R.1.

Andreu V, Blasco C, and Pico Y. "Analytical strategies to determine quinolone residues in food and the environment," *TrAC Trends Anal Chem* **2007**, *26*(6):534-556.

http://www.sciencedirect.com/science/article/B6V5H-4MV0M6P-2/2/d08d401b8d246baf4b16161ff87017e5.

Anene BM, Onah DN, and Nawa Y. "Drug resistance in pathogenic African trypanosomes: what hopes for the future?," *Vet Parasitol* **2001**, *96*(2):83-100. http://www.sciencedirect.com/science/article/B6TD7-42DX1NJ-1/2/6c0734bdbb241690cd5b49c14edb4b3c.

Angenent LT, Mau M, George U, Zahn JA, and Raskin L. "Effect of the presence of the antimicrobial tylosin in swine waste on anaerobic treatment," *Wat Res* **2008**, *42*(10-11):2377-2384. http://www.sciencedirect.com/science/article/B6V73-4RHFVC6-3/1/330b1c0f72899538cab8bfd0fa4ce19b.

Ania CO, Parra JB, Menéndez JA, and Pis JJ. "Microwave-assisted regeneration of activated carbons loaded with pharmaceuticals," *Wat Res* **2007**, *41*(15):3299-3306. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4NSWYXH-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=a7e6d41186146d72ec0634d37b1ecfaa.

Ankley GT, Black MC, Garric J, Hutchinson TH, and Iguchi T. "A framework for assessing the hazard of pharmaceutical materials to aquatic species," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 6, 183-237. http://oaspub.epa.gov/eims/xmlreport.display?deid=104026&z_chk=28718&format=print.

Ankley GT, Brooks BW, Huggett DB, and Sumpter JP. "Repeating History: Pharmaceuticals in the environment," *Environ Sci Technol* **2007**, *41*(24):8211-8217. http://pubs.acs.org/subscribe/journals/esthag/41/i24/html/121507feature ankley.html.

Ankley GT, Daston GP, Degitz SJ, Denslow ND, Hoke RA, Kennedy SW, et al. "Toxicogenomics in regulatory ecotoxicology," *Environ Sci Technol* **2006**, *40*(13):4055-4065. http://pubs.acs.org/subscribe/journals/esthag/40/i13/html/070106feature_ankley.html.

Ankley GT, Jensen KM, Makynen EA, Kahl MD, Korte JJ, Hornung MW, et al. "Effects of the androgenic growth promoter 17-beta-trenbolone on fecundity and reproductive endocrinology of the fathead minnow," *Environ Toxicol Chem* **2003**, *22*(6):1350-1360. http://www.ncbi.nlm.nih.gov/pubmed/12785594.

Ankley GT, and Villeneuve DL. "The fathead minnow in aquatic toxicology: Past, present and future," *Aqua Toxicol* **2006**, *78*(1):91-102.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4J9X2MW-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=192372c2d16db730105e3318075370d4.

Anon. "Groundwater contamination: An industry update," *Drug and Cosmetic Industry* **1986**, *139*(4):54, 56, 58.

Anon. "Antibiotic resistance in aquatic bacteria," *Marine Pollution Bulletin* **1986**, *17*(7):283. http://www.sciencedirect.com/science/article/B6V6N-488Y54P-2W/2/23ee9169e35a745e2a045984034db31c. Anon, "Hormone mimics: They're in our food; should we worry?," *Consumer Reports* 1998, 52-55. http://www.ncbi.nlm.nih.gov/pubmed/10342960.

Anon. "The coast is cleaner," *Environ Health Perspect* **1999**, *107*(8):A398-A400. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1566486.

Anon. "New Regulatory Challenge: Pharmaceuticals in Water," Spring, 1999, 4 pp.

Anon. "Canada Scrutinizes Drugs in Water," *Environ Sci Technol* **2001**, *35*(19):A439. http://pubs.acs.org/cgi-bin/article.cgi/esthag-a/0000/35/i21/html/21govw.html.

Anon. "Future Regulations Could Result From Drugs-in-Water Research," May 6, 2002, 2002, N/A pp.

Anon, "Healthcare facilities discharge hazardous pharmaceutical waste," *Healthcare hazard management monitor - HHMM - the newsletter of the Center for Healthcare Environmental Management*, June, 2004, 1-6. http://www.ncbi.nlm.nih.gov/pubmed/15181788.

Anon. "Disposal of unused medicines-Concern grows over environmental impacts," *J Environ Health* **2004**, *66*(10):42.

http://www.questia.com/googleScholar.qst;jsessionid=LX0RL71FKvnRTxVGPCMsH4lfxR2yztvyR0 ymv111wyCm4qQ8dTVj!747376220?docId=5005973300.

Anon. "Vorkommen der wichtigsten Vertreter aus den einzelnen Indikationsgruppen in der aquatischen Umwelt und im Trinkwasser," 2006-2007? (lastest ref cited 2006), 1-19 pp. http://www.hilp.de/am-oekologie-literatur.pdf.

Anon. "Stuck in the mud," *Nature* **2008**, *453*:258. http://www.nature.com/nature/journal/v453/n7193/pdf/453258a.pdf.

Antonic J, and Heath E. "Determination of NSAIDs in river sediment samples," *Anal Bioanal Chem* **2007**, *387*(4):1337-1342. http://www.ingentaconnect.com/content/klu/216/2007/00000387/00000004/00000947.

Antos D, and Seidel-Morgenstern A. "Application of gradients in the simulated moving bed process," *Chem Eng Sci* **2001**, *56*(23):6667-6682. http://www.sciencedirect.com/science/article/B6TFK-44JYWSY-K/2/fa4eddb24978bbc38f1c8c6a67ad9b5e.

Antwi FB, Shama LM, and Peterson RK. "Risk assessments for the insect repellents DEET and picaridin," *Regul Toxicol Pharmacol* **2008**, *51*(1):31-36. http://www.find-health-articles.com/rec_pub_18406029-risk-assessments-insect-repellents-deet-picaridin.htm.

Apedaile E, CH2M Hill Canada Limited, and Cole D. "Health aspects of biosolids land application," Ottawa, Ontario, Canada, March 2002, 2002, 181 pp. http://www.nebiosolids.org/pdf/OttawHealth.pdf.

Api AM, and Ford RA. "Evaluation of the oral subchronic toxicity of HHCB (1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-[gamma]-2-benzopyran) in the rat," *Toxicol Lett* **1999**, *111*(1-

2):143-149. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-D/2/c8fd19a8800aceebca3a2fb6b226b8da.

Api AM, and Ford RA. "Evaluation of the dermal subchronic toxicity of diphenyl ether in the rat," *Food Chem Toxicol* **2003**, *41*(1):259-264. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T6P-47CP78B-5&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=b6608e5c4ce09c8fa7d547cfc089b45a.

Api AM, and Gudi R. "An in vivo mouse micronucleus assay on musk ketone," *Mutation Research/Genetic Toxicology and Environ Mutagenesis* **2000**, *464*(2):263-267. http://www.sciencedirect.com/science/article/B6T2D-3YDG246-C/2/00a64198195621ac492f805a9063487e.

Api AM, Lewis EM, Hoberman AM, Christian MS, and Diener RM. "Evaluation of the developmental toxicity of alpha-methyl-3,4-methylene-dioxyhydrocinnamic aldehyde in rats," *Int J Toxicol* **2006**, *25*(2):127-132.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16597551.

Api AM, Pfitzer EA, and San RHC. "An evaluation of genotoxicity tests with musk ketone," *Food Chem Toxicol* **1996**, *34*(7):633-638. http://www.ingentaconnect.com/content/els/02786915/1996/00000034/0000007/art00028.

Api AM, Smith RL, Pipino S, Marczylo T, and De Matteis F. "Evaluation of the oral subchronic toxicity of AHTN (7-Acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene) in the rat," *Food Chem Toxicol* **2004**, *42*(5):791-801.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15046825.

Aplenc R, Kent D, Glatzner M, Hoehn JB, Forte G-B, Alderslade R, et al. "Related Letters: Inappropriate drug- donation practices in Bosnia and Herzegovina," *N Engl J Med* **1998**, *338*(20):1472-1474.

Apostolidis S, Chandra T, Demirhan I, Cinatl J, Doerr HW, and Chandra A. "Evaluation of carcinogenic potential of two nitro-musk derivatives, musk xylene and musk tibetene in a host-mediated in vivo/in vitro assay system," *Anticancer Res* **2002**, *22*(5):2657-2662. http://www.ncbi.nlm.nih.gov/pubmed/12529978.

Apoteket AB. "Environment and pharmaceuticals." Stockholm, Sweden, Apoteket AB (The National Corporation of Swedish Pharmacies), Stockhom County Council, Stockholm University, 2006, 142 pp. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Arana I, Justo JI, Muela A, and Barcina I. "Survival and plasmid transfer ability of Escherichia coli in wastewater," *Wat Air Soil Pollut* **2001**, *126*(3-4):223-238. http://www.springerlink.com/content/lj6p0066657417kr/. Arana J, Nieto JLM, Melian JAH, Rodriguez JMD, Diaz OG, Pena JP, et al. "Photocatalytic degradation of formaldehyde containing wastewater from veterinarian laboratories," *Chemosphere* **2004**, *55*(6):893-904. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4BHCD8F-

 $G\&_user=6729288\&_rdoc=1\&_fmt=\&_orig=search\&_sort=d\&view=c\&_acct=C000001678\&_version=1\&_urlVersion=0\&_userid=6729288\&md5=28801fd56fd4aaec5ba2bf2040db1da5.$

Aranami K, and Readman JW. "Photolytic degradation of triclosan in freshwater and seawater," *Chemosphere* **2007**, *66*(6):1052-1056. http://www.sciencedirect.com/science/article/B6V74-4PNJ1KP-B/1/be630932cc8f9f69997a0678028c376b.

Araujo A, and McNair J. "Individual- and population-level effects of antibiotics on the rotifers, Brachionus calyciflorus and B. plicatilis," *Hydrobiologia* **2007**, *593*(1):185-199. http://dx.doi.org/10.1007/s10750-007-9044-y.

Araujo L, Wild J, Villa N, Camargo N, Cubillan D, and Prieto A. "Determination of anti-inflammatory drugs in water samples, by in situ derivatization, solid phase microextraction and gas chromatographymass spectrometry," *Talanta* **2008**, *75*(1):111-115. http://www.sciencedirect.com/science/article/B6THP-4R0CK00-4/2/f160f16dde87f12723bdfbc90a29deb4.

Arcand-Hoy LD, Nimrod AC, and Benson WH. "Endocrine-modulating substances in the environment: estrogenic effects of pharmaceutical products," *Int J Toxicol* **1998**, *17*(2):139-158. http://www.ingentaconnect.com/content/apl/uito/1998/00000017/0000002/art00004.

Arditsoglou A, and Voutsa D. "Passive sampling of selected endocrine disrupting compounds using polar organic chemical integrative samplers," *Environ Pollut* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6VB5-4S3P8CY-4/1/1b6b61cb19a14519272982a5a36a1631.

Arditsoglou A, and Voutsa D. "Determination of phenolic and steroid endocrine disrupting compounds in environmental matrices," *Environ Sci Pollut Res* **2008**, *15*(3):228-236. http://www.ncbi.nlm.nih.gov/pubmed/18504842.

Aresta A, Palmisano F, and Zambonin CG. "Simultaneous determination of caffeine, theobromine, theophylline, paraxanthine and nicotine in human milk by liquid chromatography with diode array UV detection," *Food Chem* **2005**, *93*(1):177-181. http://www.sciencedirect.com/science/article/B6T6R-4F3NXWW-P/2/2504e281ab8464d91be8f9d016b305fc.

Argyll and Clyde NHS Board, and Lomond and Argyll Primary Care NHS Trust. "Disposal of Unwanted Medicinal Products (DUMP) Campaign and Audit," 2001, 9 pp. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1314647.

Ariese F, Ernst WHO, and Sijm DTHM. "Natural and synthetic organic compounds in the environment--a symposium report," *Environ Toxicol Pharmacol* **2001**, *10*(3):65-80. http://www.sciencedirect.com/science/article/B6T6D-43KPD0B-1/1/586fe5e72b8ff64a240d54c8acbde072.

Arikan OA, Mulbry W, and Rice C. "Management of antibiotic residues from agricultural sources: Use of composting to reduce chlortetracycline residues in beef manure from treated animals," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4T72X1H-7/2/30ab56cba89362bf4b474836ede8d060.

Arikan OA, Rice C, and Codling E. "Occurrence of antibiotics and hormones in a major agricultural watershed," *Desalination* **2008**, *226*(1-3):121-133. http://www.sciencedirect.com/science/article/B6TFX-4S50V3Y-K/1/7b99ccdd048d560043f6be4d0edd30f7.

Arikan OA, Sikora LJ, Mulbry W, Khan SU, and Foster GD. "Composting rapidly reduces levels of extractable oxytetracycline in manure from therapeutically treated beef calves," *Bioresource Technol* **2007**, *98*(1):169-176. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V24-4HVDYM4-

4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=0c50140ac80c6d0793143416b8dc3401.

Arikan OA, Sikora LJ, Mulbry W, Khan SU, Rice C, and Foster GD. "The fate and effect of oxytetracycline during the anaerobic digestion of manure from therapeutically treated calves," *Process Biochem* **2006**, *41*(7):1637-1643.

Aristilde L, and Sposito G. "Molecular Modeling of Metal Complexation by a Fluoroquinolone Antibiotic," *Environ Toxicol Chem* **2008**, *In Press* http://www.ncbi.nlm.nih.gov/pubmed/18547155?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed .Pubmed_ResultsPanel.Pubmed_RVDocSum.

Arizona Water Resource. "Endocrine disrupters in water: What are EDs? What risks do they pose?," September-October 2000, 2000, 4 pp.

Arnold SF, Bergeron JM, Tran DQ, Collins BM, Vonier PM, Crews D, et al. "Synergistic responses of steroidal estrogens in vitro (yeast) and in vivo (turtles)," *Biochem Biophys Res Comm* **1997**, *235*(2):336-342. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WBK-45MFSF2-VN&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versi on=1&_urlVersion=0&_userid=6729288&md5=cdb85cadc3c2b25bde56be53d80e2d3c.

Arnold SF, Klotz DM, Collins BM, Vonier PM, Guillette JLJ, and McLachlan JA. "Synergistic activation of estrogen receptor with combinations of environmental chemicals," *Science* **1996**, *272*(5267):1489-1492. (This paper was later retracted by JA McLachlan). http://www.sciencemag.org/cgi/content/short/277/5325/459d and http://zygote.swarthmore.edu/env12.html.

Arnold SF, and McLachlan JA. "Synergistic signals in the environment," *Environ Health Perspect* **1996**, *104*(10):1020-1023. http://www.ncbi.nlm.nih.gov/pubmed/8930538.

Arnold WA, and McNeill K. "Fate and occurrence of pharmaceuticals in the water cycle – Transformation of pharmaceuticals in the environment: Photolysis and other abiotic processes," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; Wilson & Wilson's Comprehensive Analytical Chemistry series (D. Barcelo, Ed.), 2007, Chapter 3.2, 361-385. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Arroll B, Keneally T, and Kerse N. "Do delayed prescriptions reduce the use of antibiotics for the common cold? A single-blind controlled trial," *J Family Practice* **2002**, *514*(4):324-328. http://www.ncbi.nlm.nih.gov/pubmed/11978254.

Arslan T, and Phelps RP. "Production of monosex male black crappie, Pomoxis nigromaculatus, populations by multiple androgen immersion," *Aquaculture* **2004**, *234*(1-4):561-573. http://www.sciencedirect.com/science/article/B6T4D-4BRTG80-2/2/6c665eb30bcbe7c0406200761d06a56b.

Arslan-Alaton I, and Akmehmet Balcioglu I. "Biodegradability Assessment of Ozonated Raw and Biotreated Pharmaceutical Wastewater," *Arch Environ Contam Toxicol* **2002**, *43*(4):0425-0431. http://dx.doi.org/10.1007/s00244-002-1235-y.

Arslan-Alaton I, and Caglayan AE. "Ozonation of Procaine Penicillin G formulation effluent - Part I: Process optimization and kinetics," *Chemosphere* **2005**, *59*(1):31-39. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4DXT7P1-G&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=6729288&md5=9d8652771e3e2d4b4db480015e06a45e.

Arslan-Alaton I, and Caglayan AE. "Toxicity and biodegradability assessment of raw and ozonated procaine penicillin G formulation effluent," *Ecotoxicol Environ Safety* **2006**, *63*(1):131-140. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WDM-4G39H66-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=96f4e44b390a13f5d0a82f70162e7147.

Arslan-Alaton I, and Dogruel S. "Pre-treatment of penicillin formulation effluent by advanced oxidation processes," *J Haz Mat* **2004**, *112*(1-2):105-113. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGF-4CJVF22-3&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=72750dc8ed0d3b504eefc8fd92d30bf6.

Artola-Garicano E, Borkent I, Hermens JLM, and Vaes WHJ. "Removal of two polycyclic musks in sewage treatment plants: Freely dissolved and total concentrations," *Environ Sci Technol* **2003**, *37*(14):3111-3116. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i14/abs/es020226x.html.

Artola-Garicano E, Hermens JLM, and Vaes WHJ. "Evaluation of Simple Treat 3.0 for two hydrophobic and slowly biodegradable chemicals: polycyclic musks HHCB and AHTN," *Wat Res* **2003**, *37*(18):4377-4384. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-49FR41C-

2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_version=1&_urlVersion=0& _userid=6729288&md5=75c761c4c3091bf6ebbd96f599a18339.

Artola-Garicano E, Sinnige TL, van Holsteijn I, Vaes WHJ, and Hermens JLM. "Bioconcentration and acute toxicity of polycyclic musks in two benthic organisms (Chironomus riparius and Lumbriculus variegatus)," *Environ Toxicol Chem* **2003**, *22*(5):1086-1092.

http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(2003)022%3C1086%3ABAATOP%3E2.0.CO%3B2.

Arya S. "Correspondence on Antimicrobial storage and antibiotic resistance and Response to issue of antimicrobial storage," *J Am Board Fam Med* **2008**, *21*(1):168-169. http://www.jabfm.com/cgi/reprint/21/2/168-a.

Asano T, and Cotruvo JA. "Groundwater recharge with reclaimed municipal wastewater: health and regulatory considerations," *Wat Res* **2004**, *38*(8):1941-1951. http://www.sciencedirect.com/science/article/B6V73-4BY3T9N-2/2/cd08e698eae193d148d6f7cb0250120f.

Aschmann SM, Arey J, Atkinson R, and Simonich SL. "Atmospheric Lifetimes and Fates of Selected Fragrance Materials and Volatile Model Compounds," *Environ Sci Technol* **2001**, *35*(18):3595-3600. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es010685i.

ASCP. "ASCP Policy Statement on the Return and Reuse of Medications in Long-term Care Facilities," American Society of Consultant Pharmacists, July 11, 2003, 3 pp. http://www.ascp.com/resources/policy/upload/ASCP%20Policy%20Statement%20on%20Return%20 &%20Reuse.pdf.

Ash M, and Ash I. "Handbook of cosmetic and personal care additives, 2 Volume Set," Synapse Information Resources, Inc., 2002, 2nd ed., 2048 pp.

Ash M, and Ash I. "Handbook of pharmaceutical additives, Second Edition," Synapse Information Resources, Incorporated, 2002, 2nd ed., 1051 pp.

Ash RJ, Mauch B, Moulder W, and Morgan M. "Antibiotic-resistant bacteria in U.S. rivers," Am Society for Microbiology 99th Annual Meeting, Chicago, IL, 1999.

Ash RJ, Mauck B, and Morgan M. "Antibiotic Resistance of Gram-Negative Bacteria in Rivers, United States," *Emerg Infect Dis* **2002**, *8*(7):713-716. http://www.cdc.gov/ncidod/EiD/vol8no7/01-0264.htm.

Ashauer R, Boxall ABA, and Brown CD. "Modeling combined effects of pulsed exposure to carbaryl and chlorpyrifos on gammarus pulex," *Environ Sci Technol* **2007**, *41*(15):5535-5541. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i15/abs/es070283w.html.

Ashby J. "Testing for endocrine disruption post-EDSTAC: extrapolation of low dose rodent effects to humans," *Toxicol Lett* **2001**, *120*(1-3):233-242. http://www.sciencedirect.com/science/article/B6TCR-42VM8DN-Y/2/876a18e071e5ae38b27d6bc31c741cff.

Ashby J, Lefevre PA, Odum J, Harris CA, Routledge EJ, and Sumpter JP. "Synergy between synthetic oestrogens?," *Nature* **1997**, *385*(6616):494-494. http://dx.doi.org/10.1038/385494a0.

Ashton D, Hilton M, and Thomas KV. "Investigating the environmental transport of human pharmaceuticals to streams in the United Kingdom," *Sci Total Environ* **2004**, *333*(1-3):167-184. http://www.sciencedirect.com/science/article/B6V78-4CTCWXS-5/1/dd050fbe00e6de414c590c6260066f79.

Asperger D, Mutavdzic D, Babic S, Horvat AJM, and Kastelan-Macan M. "Solid-phase extraction and TLC quantification of enrofloxacin, oxytetracycline, and trimethoprim in wastewater," *J Planar Chromatogr - Modern TLC* **2006**, *19*(108):129-134. http://www.akademiai.com/content/925876v7574665w2/.

Associated Press. "Pharmaceuticals in drinking water raise awareness of the need to increase monitoring of municipal water supplies," *Membrane Technol* **2008**, *2008*(6):10-12. http://www.sciencedirect.com/science/article/B6VJF-4STYP1N-J/1/f5f75db01209cc25a44206f17a2451a0.

Associated Press. "An AP Investigation: Pharmaceuticals Found in Drinking Water " **2008**, http://hosted.ap.org/specials/interactives/pharmawater_site/index.html.

Association of Metropolitan Sewerage Agencies (AMSA). "Evaluation of Domestic Sources of Mercury," AMSA Mercury Workgroup, Washington, DC, August 2000, 31 pp. http://www.amsa-cleanwater.org/pubs/mercury/mercury.cfm.

Astarita A, Della Greca M, Iesce MR, Montanaro S, Previtera L, and Temussi F. "Polycyclic compounds by sunlight exposure of the drug rosuvastatin in water," *J Photochem Photobiol A: Chem* **2007**, *187*(2-3):263-268. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGY-4M9RKJX-

 $\label{eq:classical_constraint} C\&_user=6729288\&_rdoc=1\&_fmt=\&_orig=search\&_sort=d\&view=c\&_acct=C000001678\&_version=1\&_urlVersion=0\&_userid=6729288\&md5=763dd63aaca31a9691af56b94810b075.$

Athavaley A. "What's coming from your tap?," The Wall Street Journal Online, August 19 2008 5 http://online.wsj.com/public/article_print/SB121910526011851511.html.

Atienzar FA, Billinghurst Z, and Depledge MH. "4-n-Nonylphenol and 17-β estradiol may induce common DNA effects in developing barnacle larvae," *Environ Pollut* **2002**, *120*(3):735-738. http://www.sciencedirect.com/science/article/B6VB5-45JYCC2-3/1/32106627449bcaa63ad4c4a99b0c8856.

Atkinson S, Atkinson MJ, and Tarrant AM. "Estrogens from sewage in coastal marine environments," *Environ Health Perspect* **2003**, *111*(4):531-535. http://www.ehponline.org/members/2003/5233/5233.html.

Atoyan JA, Panenaude EL, Potts DA, and Amador JA. "Effects of tetracycline on antibiotic resistance and removal of fecal indicator bacteria in aerated and unaerated leachfield mesocosms," *J Environ Sci Health Part A Tox Hazard Subst Environ Eng* **2007**, *42*(11):1571-1578.

Audesirk G, Armstrong D, van den Maagdenberg AMJM, Atchison W, Shafer T, and Fletcher C. "Calcium channels: Critical targets of toxicants and diseases," *Environ Health Perspect* **2000**, *108*(12):1215-1218. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1240205.

Auerbach EA, Seyfried EE, and McMahon KD. "Tetracycline resistance genes in activated sludge wastewater treatment plants," *Wat Res* **2007**, *41*(5):1143-1152. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4MVN0052&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=0136255ee12ff2ccc906421fb18d3c20.

Aufdenkampe AK, Arscott DB, Dow CL, and Standley LJ. "Molecular tracers of soot and sewage contamination in streams supplying New York City drinking water," *J North Am Benthological Soc* **2006**, *25*(4):928-953. http://apt.allenpress.com/perlserv/?request=get-abstract&doi=10.1899%2F0887-3593(2006)025%5B0928%3AMTOSAS%5D2.0.CO%3B2&ct=1.

Augugliaro V, Garcia-Lopez E, Loddo V, Malato-Rodriguez S, Maldonado I, Marci G, et al. "Degradation of lincomycin in aqueous medium: Coupling of solar photocatalysis and membrane separation," *Solar Energy* **2005**, *79*(4):402-408.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V50-4FXG2B0-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=c15ec0aaa19a7483f1a2e3bf8d946369.

Aumonier J. "Risk management of pharmaceuticals in the environment: The human pharmaceutical industry viewpoint," Envirpharma European Conference on human and vetinary pharmaceuticals in the environment, 2003.

Auriol M, Filali-Meknassi Y, Adams CD, and Tyagi RD. "Natural and synthetic hormone removal using the horseradish peroxidase enzyme: Temperature and pH effects," *Wat Res* **2006**, *40*(15):2847-2856. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4KF6BMJ-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=6bc87c74956f715a758098e4779d7905.

Auriol M, Filali-Meknassi Y, Tyagi RD, and Adams CD. "Laccase-catalyzed conversion of natural and synthetic hormones from a municipal wastewater," *Water Research* **2007**, *41*(15):3281-3288. http://www.sciencedirect.com/science/article/B6V73-4NRK4F7-1/2/0c72f07335848141b2a2e4e405b34006.

Auriol M, Filali-Meknassi Y, Tyagi RD, Adams CD, and Surampalli RY. "Endocrine disrupting compounds removal from wastewater, a new challenge," *Process Biochem* **2006**, *41*(3):525-539. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6THB-4HG69VV-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1& urlVersion=0& userid=6729288&md5=11f29b95ffd5c3767b219dc8d3b0461e.

Aurora Prado MS, Steppe M, Tavares MFM, Kedor-Hackmann ERM, and Santoro MIRM. "Comparison of capillary electrophoresis and reversed-phase liquid chromatography methodologies for determination of diazepam in pharmaceutical tablets," *J Pharmaceutical Biomed Anal* **2005**, *37*(2):273-279. http://www.sciencedirect.com/science/article/B6TGX-4F8TKK9-2/2/fc90ec3bb70e52390c641544ed6c5481.

Aust M-O, Thiele-Bruhn S, Jandl G, and Leinweber P. "Improved method for the simultaneous determination of sulfonamides in environmental matrices by liquid chromatography -mass spectrometry," *Fres Environ Bull* **2008**, *17*(3):331-340. http://www.auf.uni-rostock.de/f_publikation_einzel.asp?ID=182896667.

Austin B. "Antibiotic pollution from fish farms: effects on aquatic microflora," *Microbiol Sci* **1985**, 2(4):113-117. http://www.ncbi.nlm.nih.gov/pubmed/3940001.

Autier P, Govindaraj R, Gray R, Lakshminarayanan R, Nassery HG, and Schmets G. "Drug donations in post-emergency situations," World Bank, Preker AS, Ed., Washington, DC, 2002, ii-iv pp.

AWWA. "Pharmaceutical compounds in drinking water," 2008.

Ayora Canada MJ, Pascual Reguera MI, Ruiz Medina A, Fernandez de Cordova ML, and Molina Diaz A. "Fast determination of paracetamol by using a very simple photometric flow-through sensing device," *J Pharmaceutical Biomed Anal* **2000**, *22*(1):59-66. http://www.sciencedirect.com/science/article/B6TGX-3YHG796-7/2/c6c65e9c350b3a6101d6938e366e28c2.

Ayscough NJ, Fawell J, Franklin G, and Young W. "Review of Human Pharmaceuticals in the Environment," Environment Agency, 2000, 114 pp.

Azur Environmental "Microtox® Rapid Toxicity Testing System," http://www.sdimicrotox.com/microtox-products-introduction.asp.

Babic S, Asperger D, Mutavdzic D, Horvat AJM, and Kastelan-Macan M. "Determination of sulfonamides and trimethoprim in spiked water samples by solid-phase extraction and thin-layer chromatography," *J Planar Chromatogr - Modern TLC* **2006**, *18*(106):423-426. http://www.akademiai.com/content/et672120r6555722/.

Babic S, Asperger D, Mutavdzic D, Horvat AJM, and Kastelan-Macan M. "Solid phase extraction and HPLC determination of veterinary pharmaceuticals in wastewater," *Talanta* **2006**, *70*(4):732-738. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6THP-4KPN9RC-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=ed44c632210b7cd3bfe73a5be847401c.

Babic S, Mutavdzic D, Asperger D, Horvat AJM, and Kastelan-Macan M. "Determination of veterinary pharmaceuticals in production wastewater by HPTLC-videodensitometry," *Chromatographia* **2007**, *65*(1-2):105-110. http://cat.inist.fr/?aModele=afficheN&cpsidt=18449947.

Babin M, Boleas S, and Tarazona JV. "In vitro toxicity of antimicrobials on RTG-2 and RTL-W1 fish cell lines," *Environ Toxicol Pharmacol* **2005**, *20*(1):125-134.

Backhaus T, Altenburger R, Boedeker W, Faust M, Scholze M, and Grimme LH. "Predictability of the toxicity of a multiple mixtureof dissimilarly acting chemicals to vibrio fisheri," *Environ Toxicol Chem* **2000**, *19*(9):2348-2356. http://dx.doi.org/10.1897%2F1551-5028%282000%29019%3C2348%3APOTTOA%3E2.3.CO%3B2.

Backhaus T, and Grimme LH. "The toxicity of antibiotic agents to the luminescent bacterium Vibrio fischeri," *Chemosphere* **1999**, *38*(14):3291-3301. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-3WSVRWR-7&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=3b3639e710be7c0ce8515602773ceb02. Backhaus T, Scholze M, and Grime LH. "The single substance and mixture toxicity of quinolones to the bioluminescent bacterium Vibrio fischeri," *Aqua Toxicol* **2000**, *49*(1-3):49-61. http://cat.inist.fr/?aModele=afficheN&cpsidt=1476000.

Bagnati R, and Calamari D. "Pharmaceuticals in the environment: Changes in the presence and concentrations of pharmaceuticals for human use in Italy," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 4, 45-66. http://www.cplbookshop.com/contents/C772.htm.

Baguer AJ, Jensen J, and Krogh PH. "Effects of the antibiotics oxytetracycline and tylosin on soil fauna," *Chemosphere* **2000**, *40*(7):751-757. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-35/1/c41896484f9290e614f56785f439c9f1.

Bai Y, Wu F, Liu C, Guo J, Fu P, Li W, et al. "Interaction between carbamazepine and humic substances: A fluorescence spectroscopy study," *Environ Toxicol Chem* **2008**, *27*(1):95-102. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F07-013.1.

Bailer AJ, and Oris JT. "Defining the baseline for inhibition concentration calculations for hormetic hazards," *J Appl Toxicol* **2000**, *20*(2):121-125. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<121::AID-JAT642>3.0.CO;2-B.

Baillie TA. "Future of toxicology - metabolic activation and drug design: challenges and opportunities in chemical toxicology," *Chem Res Toxicol* **2006**, *19*(7):889-893. http://pubs.acs.org/cgi-bin/abstract.cgi/crtoec/2006/19/i07/abs/tx0600620.html.

Bailón-Pérez MI, García-Campaña AM, Cruces-Blanco C, and del Olmo Iruela M. "Trace determination of [beta]-lactam antibiotics in environmental aqueous samples using off-line and on-line preconcentration in capillary electrophoresis," *J Chromatogr A* **2008**, *1185*(2):273-280. http://www.sciencedirect.com/science/article/B6TG8-4RJYV6V-1/1/daea961ab993058667a7f8d2a43f3910.

Baird D. "Veterinary medicines in natural ecosystems: Assessing the risks," *J Vet Pharmacol Therapeut* **2003**, *26*(1):28-29.

Baird RM, Crowden CA, O'Farrell SM, and Shooter RA. "Microbial contamination of pharmaceutical products in the home," *J Hygiene* **1979**, *83*(2):277-283. http://www.jstor.org/pss/3862532.

Bakal RS, and Stoskopf MK. "In vitro studies of the fate of sulfadimethoxine and ormetoprim in the aquatic environment," *Aquaculture* **2001**, *195*(1-2):95-102. http://www.sciencedirect.com/science/article/B6T4D-42D8206-9/2/0c61dc2a2052564d449b2d22af1e2ae1.

Baker ME. "Albumin's role in steroid hormone action and the origins of vertebrates: Is albumin an essential protein?," *FEBS Lett* **1998**, *439*(1-2):9-12. http://www.ingentaconnect.com/content/els/00145793/1998/00000439/0000001/art01346.

Baker R. "Health management with reduced antibiotic use - The US experience," *Anim Biotechnol* **2006**, *17*(2):195-205. http://www.informaworld.com/smpp/content~db=all~content=a768446450~tab=content. Baker R, Moss P, Upton D, and Pankhania J. "Investigation of systems to prevent diversion of opiate drugs in general practice in the UK," *Qual Saf Health Care* **2004**, *13*(1):21-25. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1758056.

Balaban NQ, Merrin J, Chait R, Kowalik L, and Leibler S. "Bacterial persistence as a phenotypic switch," *Science* **2004**, *305*:1622-1625. http://www.sciencemag.org/cgi/content/abstract/305/5690/1622?maxtoshow=&HITS=10&hits=10&R ESULTFORMAT=&author1=Balaban&author2=.

Balakrishnan VK, Terry KA, and Toito J. "Determination of sulfonamide antibiotics in wastewater: A comparison of solid phase microextraction and solid phase extraction methods," *J Chromatogr A* **2006**, *1131*(1-2):1-10. http://www.sciencedirect.com/science/article/B6TG8-4KJ5T6P-4/1/4621ddef9566cd1647ac3e32d2ff2e9f.

Balch G, and Metcalfe C. "Developmental effects in Japanese medaka (Oryzias latipes) exposed to nonylphenol ethoxylates and their degradation products," *Chemosphere* **2006**, *62*(8):1214-1223. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4HSY4J8-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=c5f8683fe0591c49f35547c314d98680.

Balch GC, Mackenzie CA, and Metcalfe CD. "Alterations to gonadal development and reproductive success in Japanese medaka (Oryzias latipes) exposed to 17 alpha-ethinylestradiol," *Environ Toxicol Chem* **2004**, *23*(3):782-791. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-539.

Baldini M, and Selzer P. "Antibiotic resistance patterns of enterococci isolated from estuarine waters," *REVISTA ARGENTINA DE MICROBIOLOGIA* **2008**, *40*(1):48-51. http://www.scielo.org.ar/scielo.php?script=sci_arttext&pid=S0325-75412008000100011&lng=en&nrm=iso.

Baldini MD, and Cabezali CB. "Occurrence of Antibiotic-Resistant Escherichia Coli Isolated from Environmental Samples," *Mar Pollut Bull* **1991**, *22*(10):500-503. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V6N-4888BWT-7S&_user=6729288&_coverDate=10%2F31%2F1991&_alid=780009835&_rdoc=1&_fmt=high&_ori g=search&_cdi=5819&_sort=d&_docanchor=&view=c&_ct=1&_acct=C000001678&_version=1&_u rlVersion=0&_userid=6729288&md5=2cc85352e1d1a1b73fc2016c81b240cf.

Baldwin WS, Milam DL, and LeBlanc GA. "Physiological and biochemical perturbations in daphnia magna following exposure to the model environmental estrogen diethylstilbestrol," *Environ Toxicol Chem* **1995**, *14*(6):945-952. http://dx.doi.org/10.1897%2F1552-8618%281995%2914%5B945%3APABPID%5D2.0.CO%3B2.

Balest L, Lopez A, Mascolo G, and Di Iaconi C. "Removal of endocrine disrupter compounds from municipal wastewater using an aerobic granular biomass reactor," *Biochemical Engineering Journal* **2008**, *41*(3):288-294. http://www.sciencedirect.com/science/article/B6V5N-4SMNY0Y-1/1/fbaecca6cdb3455657959f54bc5fcb71.

Balk F, Blok H, and Salvito D. "Environmental risks of musk fragrance ingredients," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 10, 168-190.

Balk F, and Ford RA. "Environmental risk assessment for the polycyclic musks AHTN and HHCB in the EU: I. Fate and exposure assessment," *Toxicol Lett* **1999**, *111*(1-2):57-79. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-6/2/1ae95126d3fd3fdbe672167133555fc6.

Balk F, and Ford RA. "Environmental risk assessment for the polycyclic musks, AHTN and HHCB: II. Effect assessment and risk characterisation," *Toxicol Lett* **1999**, *111*(1-2):81-94. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-7/1/69a3a1eac83bf0b08ad2fb7881d3205e.

Balk F, Salvito D, and Blok H. "Recent studies conducted by the Research Institute for Fragrance Materials (RIFM) in support of the environmental risk assessment process," in *Handbook Environ Chem*, 2004, 311-331.

Balmer ME, Buser H-R, Muller MD, and Poiger T. "Occurrence of the Organic UV Filter Compounds BP-3, 4-MBC, EHMC, and OC in Wastewater, Surface Waters, and in Fish from Swiss Lakes," Agroscope, Wädenswil, March, 2004, 50 pp.

Balmer ME, Buser H-R, Müller MD, and Poiger T. "Occurrence of some organic UV filters in wastewater, in surface waters, and in fish from Swiss lakes," *Environ Sci Technol* **2005**, *39*(4):953-962. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i04/abs/es040055r.html.

Balmer ME, Poiger T, Droz C, Romanin K, Bergovist P-A, Müller MD, et al. "Occurrence of methyl triclosan, a transformation product of the bactericide triclosan, in fish and from various lakes in Switzerland," *Environ Sci Technol* **2004**, *38*(2):390-395. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i02/abs/es030068p.html.

Bamdad M, Brousseau P, and Denizeau F. "Identification of a multidrug resistance-like system in Tetrahymena pyriformis: evidence for a new detoxication mechanism in freshwater ciliates," *FEBS Lett* **1999**, *456*(3):389-393. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T36-3X52GC8-

 $B\&_user=6729288\&_rdoc=1\&_fmt=\&_orig=search\&_sort=d\&view=c\&_acct=C000001678\&_version=1\&_urlVersion=0\&_userid=6729288\&md5=10f874dddb37418cf57ab25e3abb712f.$

Bandelj E, Van den Heuvel MR, Leusch FDL, Shannon N, Taylor S, and McCarthy LH. "Determination of the androgenic potency of whole effluents using mosquitofish and trout bioassays," *Aqua Toxicol* **2006**, *80*(3):237-248.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4KYXHKK-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=d7d5903c17bbbeb51f146f272552455c.

Banerjee T, Guha A, Hazra A, Mandal M, Mukherji J, Sen A, et al. "Wastage of drugs by consumers – an unacceptable behavior," *Rational Drug Bull* **2001**, *11*(3):1-8. http://www.cdmubengal.org/bulletin/RDB-Vol11-No4.pdf. Baquero F, Martínez J-L, and Cantón R. "Antibiotics and antibiotic resistance in water environments," *Current Opinion Biotechnol* **2008**, *19*(3):260-265. http://www.sciencedirect.com/science/article/B6VRV-4SNS6HW-1/1/947ff3df7b10aa9422745c015b79c6bf.

Baran W, Sochacka J, and Wardas W. "Toxicity and biodegradability of sulfonamides and products of their photocatalytic degradation in aqueous solutions," *Chemosphere* **2006**, *65*(8):1295-1299. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4K42BJ0-2&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=14684&md5=7bc0c64c4646db3f902805e8d0ef1b57.

Baranowska I, Markowski P, and Baranowski J. "Simultaneous determination of 11 drugs belonging to four different groups in human urine samples by reversed-phase high-performance liquid chromatography method," *Anal Chimica Acta* **2006**, *570*(1):46-58. http://www.sciencedirect.com/science/article/B6TF4-4JRT343-6/2/5dd6453e96b6e3855b7e859e4a096fd7.

Barata C, Baird DJ, and Soares AM. "Determining genetic variability in the distribution of sensitivities to toxic stress among and within field populations of Daphnia magna," *Environ Sci Technol* **2002**, *36*(14):3045-3049. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2002/36/i14/html/es0158556.html.

Barata C, Porte C, and Baird DJ. "Experimental designs to assess endocrine disrupting effects in invertebrates - A review," *Ecotoxicology* **2004**, *13*(6):511-517. http://www.springerlink.com/content/m074x50612m177w4/.

Barber LB. "Fate of consumer product chemicals in the subsurface environment--25 Years of research on Cape Cod, Massachusetts, USA," in *Groundwater Quality 2007--Securing Groundwater Quality in Urban and Industrial Environments: International Association of Hydrological Sciences IAHS*, Hill MC, Ed., Redbook, 2008.

Barber LB, Keefe SH, Antweiler RC, Taylor HE, and Wass RD. "Accumulation of contaminants in fish from wastewater treatment wetlands," *Environ Sci Technol* **2006**, *40*(2):603-611. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i02/abs/es0514287.html.

Barber LB, Keefe SH, Antweiler RC, Taylor HE, and Wass RD. "Response to comment on 'Accumulation of contaminants in fish from wastewater treatment wetlands'," *Environ Sci Technol* **2006**, *40*(10):3438-3439. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i10/html/es068003k.html.

Barber LB, Lee KE, Swackhamer DL, and Schoenfuss HL. "Reproductive responses of male fathead minnows exposed to wastewater treatment plant effluent, effluent treated with XAD8 resin, and an environmentally relevant mixture of alkylphenol compounds," *Aqua Toxicol* **2007**, *82*(1):36-46. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4MXJ3RP-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=c18fd84eec4306050fca1d10b7a65a41.

Barber LB, Meyer MT, LeBlanc DR, Kolpin DW, Bradley PM, Chapelle FH, et al. "Subsurface fate and transport of 4-nonylphenol, 17B-estradiol, and sulfamethoxazole," in *Groundwater Quality 2007--*

Securing Groundwater Quality in Urban and Industrial Environments: International Association of Hydrological Sciences IAHS, Hill MC, Ed., Redbook, 2008.

Barber LB, Murphy SF, Verplanck PL, Sandstrom MW, Taylor HE, and Furlong ET. "Chemical loading into surface water along a hydrological, biogeochemical, and land use gradient: A holistic watershed approach," *Environ Sci Technol* **2006**, *40*(2):475-486. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i02/abs/es051270q.html.

Barbosa IR, Nogueira AJA, and Soares AMVM. "Acute and chronic effects of testosterone and 4hydroxyandrostenedione to the crustacean Daphnia magna," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4S9R87Y-4/1/8d89a68996ddbd1b507b238f8dc2c379.

Barbosa TM, and Levy SB. "The impact of antibiotic use on resistance development and persistence," *Drug Resistance Updates* **2000**, *3*(5):303-311. http://www.sciencedirect.com/science/article/B6WDK-45F53YH-H/2/e1098b5ac3634c1865d37ac6078e368c.

Barceló D. "Pharmaceutical-residue analysis," *TrAC Trends Anal Chem* **2007**, *26*(6):454-455. http://www.sciencedirect.com/science/article/B6V5H-4N49VDP-1/1/c7cebe40a1f1b2b607ab6e0605825477.

Barcelo D, and Petrovic M. "Emerging contaminants in wastewaters," *TrAC Trends Anal Chem* **2007**, *26*(11):1019-1157. http://www.sciencedirect.com/science/article/B6V5H-4R0KSTJ-3/2/07b08dce3a3d8c01898727e578025e32.

Barceló D, and Petrovic M. "Challenges and achievements of LC-MS in environmental analysis: 25 years on," *TrAC Trends in Anal Chem* **2007**, *26*(1):2-11. http://cat.inist.fr/?aModele=afficheN&cpsidt=18442304.

Barceló D, and Petrovic M. "Under the analytical spotlight, contaminants emerge: Report on the 2nd EMCO Workshop "Emerging Contaminants in Wastewaters: Monitoring Tools and Treatment Technologies" held in Belgrade, Serbia, 26 and 27 April 2007," *TrAC Trends Anal Chem* **2007**, *26*(7):647-649. http://www.sciencedirect.com/science/article/B6V5H-4NX2NF4-1/1/1e2f4940402953b2aad6ad8adc5b9ee3 http://www.cid.csic.es/emco/documenti/proceedings%202.pdf.

Barceló D, and Petrovic M. "Pharmaceuticals and personal care products (PPCPs) in the environment," *Anal Bioanal Chem* **2007**, *3*87(4):1141-1142. http://www.springerlink.com/content/y248w5r0jq7k686l/.

Barceló D, and Petrović M. "Removal of pharmaceuticals in wastewater and drinking water treatments – Conclusions and future research needs," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; Wilson & Wilson's Comprehensive Analytical Chemistry series (D. Barcelo, Ed.), 2007, Chapter 5, 515-527. http://www.elsevier.com/wps/find/bookdescription.cws home/712147/description#description.

Barceló D, Petrovic M, Lopez de Alda MJ, and Diaz-Cruz S. "LC-MS and LC-MS-MS analysis of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic

environment," Slide Presentation, Department of Environmental Chemistry IIQAB-CSIC, Barcelona, Spain, http://www.pg.gda.pl/chem/CEEAM/Dokumenty/Warsztaty/Barcelo_1.pdf.

Barceló D, Petrovic M, Raldua D, Piña B, Lacorte S, Lopez de Alda MJ, et al. "Endocrine disruptors in sewage treatment plants, receiving waters and sediments. Integration of chemical analysis and effect studies on carps and yeast," Slide Presentation, Department of Environmental Chemistry, IIQAB-CSIC, Barcelona, Spain, http://www.pg.gda.pl/chem/CEEAM/Dokumenty/Warsztaty/Barcelo_2.pdf

Barceloux DG. "Selenium," *Clin Toxicol* **1999**, *37*(2):145-172. http://www.curehunter.com/public/pubmed10382553.do.

Bard SM. "Multixenobiotic resistance as a cellular defense mechanism in aquatic organisms," *Aqua Toxicol* **2000**, *48*(4):357-389. http://www.sciencedirect.com/science/article/B6T4G-405KCVB-1/1/4af514005d18670d2bfa11559e79df8e.

Bard SM, Woodin BR, and Stegeman JJ. "Expression of P-glycoprotein and cytochrome P450 1A in intertidal fish (Anoplarchus purpurescens) exposed to environmental contaminants," *Aqua Toxicol* **2002**, *60*(1-2):17-32. http://www.sciencedirect.com/science/article/B6T4G-44VG3WD-1/1/e1acc954047c3e27e785358a6f6d3251.

Barel-Cohen K, Shore LS, Shemesh M, Wenzel A, Mueller J, and Kronfeld-Schor N. "Monitoring of natural and synthetic hormones in a polluted river," *J Environ Management* **2006**, *78*(1):16-23. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WJ7-4GV984R-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=6676566108945d9770c442638be0b208.

Barinaga M. "Small molecule fills hormone's shoes," *Science* **1998**, *281*:149-151. http://www.sciencemag.org/cgi/content/full/281/5374/149b.

Barlow S, Kavlock RJ, Moore JA, Schantz SL, Sheehan DM, Shuey DL, et al. "Teratology society public affairs committee position paper: Developmental toxicity of endocrine disruptors to humans," *Teratology* **1999**, *60*(6):365-375. http://www3.interscience.wiley.com/journal/68500940/abstract.

Barlow SM. "Dilemmas facing regulatory and advisory bodies dealing with conflicting results," *Chemosphere* **1999**, *39*(8):1287-1292. http://www.sciencedirect.com/science/article/B6V74-3XDS2NF-8/1/f804ed2c2d9db2ef204483d17a929085.

Barnes DG. "Reference dose (RfD): the possible impact of hormesis," *J Appl Toxicol* **2000**, *20*(2):127-130. http://www3.interscience.wiley.com/journal/70500271/abstract?CRETRY=1&SRETRY=0.

Barnes KK, Christenson SC, Kolpin DW, Focazio M, Furlong ET, Zaugg SD, et al. "Pharmaceuticals and other organic waste water contaminants within a leachate plume downgradient of a municipal landfill," *Ground Wat Monit Remediation* **2004**, *24*(2):119-126.

Barnes KK, Kolpin DW, Furlong ET, Zaugg SD, Meyer MT, and Barber LB. "A national reconnaissance of pharmaceuticals and other organic wastewater contaminants in the United States -- I) Groundwater," *Sci Total Environ* **2008**, *402*(2-3):192-200. http://www.sciencedirect.com/science/article/B6V78-4SS8CFV-2/1/b9d310ed7e056c0f4ac1017cf9a401e1. Barnes KK, Kolpin DW, Furlong ET, Zaugg SD, Meyer MT, Barber LB, et al. "Studies examine contaminants: Pharmaceuticals, hormones and other organic wastewater contaminants in ground water resource," *National Driller Magazine* **2005**, *26*(3):38-39.

http://www.nationaldriller.com/Articles/Feature_Article/285c1c94a9197010VgnVCM100000f932a8c0

Barnes KK, Kolpin DW, Meyer MT, Thurman EM, Furlong ET, Zaugg SD, et al. "Water-Quality Data for Pharmaceuticals, Hormones, and Other Organic Wastewater Contaminants in U.S. Streams, 1999-2000," USGS, 2002, pp. http://toxics.usgs.gov/pubs/OFR-02-94/index.html.

Barnett NW, Bowser TA, Gerardi RD, and Smith B. "Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection," *Anal Chim Acta* **1996**, *318*(3):309-317. http://www.sciencedirect.com/science/article/B6TF4-3TJ5FP1-7/1/f4751843a7cd89f46bdae59abcdf9103.

Barnett NW, Hindson BJ, and Lewis SW. "Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection," *Anal Chimica Acta* **1999**, *384*(2):151-158. http://www.sciencedirect.com/science/article/B6TF4-3W1YH27-J/2/cbeb524bd5b7db009b0335aa401dcec0.

Baronti C, Curini R, D'Ascenzo G, Di Corcia A, Gentili A, and Samperi R. "Monitoring natural and synthetic estrogens at activated sludge sewage treatment plants and in a receiving river water," *Environ Sci Technol* **2000**, *34*(24):5059-5066. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i24/abs/es001359q.html.

Barrett G. "Unused drugs: Legacy or liability?," USA Today, 13 March 2001 www.usatoday.com/news/health/2001-03-12-leftover-drugs.htm.

Barrett JS, and Koprowski SP. "The epiphany of data warehousing technologies in the pharmaceutical industry," *Internat J Clinical Pharmacol Therapeut* **2002**, *40*(3):S3-S13. http://cat.inist.fr/?aModele=afficheN&cpsidt=13519430.

Barron E, Deborde M, Rabouan S, Mazellier P, and Legube B. "Kinetic and mechanistic investigations of progesterone reaction with ozone," *Wat Res* **2006**, *40*(11):2181-2189. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4K1G544-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=5167111a1a04bd756f96252281040c33.

Barron L, Tobin J, and Paull B. "Multi-residue determination of pharmaceuticals in sludge and sludge enriched soils using pressurized liquid extraction, solid phase extraction and liquid chromatography with tandem mass spectrometry," *J Environ Monit* **2008**, *10*:353-361. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b717453e.

Barron MG, Hansen JA, and Lipton J. "Association between contaminant tissue residues and effects in aquatic organisms," *Rev Environ Contam Toxicol* **2002**, *173*:1-37. http://www.ncbi.nlm.nih.gov/pubmed/11776748.

Barsky AJ, Saintfort R, Rogers MP, and Borus JF. "Nonspecific Medication Side Effects and the Nocebo Phenomenon," *J Am Med Assoc* **2002**, *287*(5):622-627. http://jama.ama-assn.org/cgi/content/abstract/287/5/622.

Bartels P, and von Tümpling Jr W. "The environmental fate of the antiviral drug oseltamivir carboxylate in different waters," *Sci Total Environ* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4T41PCH-3/2/e7e8acdc9ef86d63b8939f02ba72fa96.

Bartels P, and von Tumpling W. "Solar radiation influence on the decomposition process of diclofenac in surface waters," *Sci Total Environ* **2007**, *374*(1):143-155. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-4MWXT58-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=6a77c53982b72a3ee98205ea016a17bc.

Barwicz J, Beauregard M, and Tancrede P. "Circular dichroism study of interactions of Fungizone or AmBisome forms of amphotericin B with human low density lipoproteins," *Biopolymers* **2002**, *67*(1):49-55.

http://www3.interscience.wiley.com/journal/89015535/abstract?CRETRY=1&SRETRY=0.

Basheer C, Chong HG, Hii TM, and Lee HK. "Application of porous membrane-protected micro-solid-phase extraction combined with HPLC for the analysis of acidic drugs in wastewater," *Anal Chem* **2007**, *79*(17):6845-6850.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17676817.

Basheer C, Jayaraman A, Kee MK, Valiyaveettil S, and Lee HK. "Polymer-coated hollow-fiber microextraction of estrogens in water samples with analysis by gas chromatography-mass spectrometry," *J Chromatogr A* **2005**, *1100*(2):137-143. http://cat.inist.fr/?aModele=afficheN&cpsidt=17376343.

Basu P, Ghosh R, N., Grove LE, Klei L, and Barchowsky A. "Angiogenic Potential of 3-Nitro-4-Hydroxy Benzene Arsonic Acid (Roxarsone)," *Environ Health Perspect* **2008**, *116*(4):520-523. http://www.ehponline.org/docs/2008/10885/abstract.html.

Bataineh M, Nolte J, Kuhlmann B, Zullei-Seibert N, Borges M, and Grote M. "Degradation behavior of selected pharmaceuticals and their main metabolites in model systems for slow sand filtration," *Current Pharm Anal* **2006**, *2*(3):313-322.

http://www.ingentaconnect.com/content/ben/cpa/2006/0000002/0000003/art00008;jsessionid=7b3c dps3uteuf.alexandra?format=print.

Batchelder AR. "Chlortetracycline and Oxytetracycline Effects on Plant Growth and Development in Liquid Cultures," *J Environ Qual* **1981**, *10*(4):515-518. http://jeq.scijournals.org/cgi/content/abstract/joenq;10/4/515.

Batchelor C. "Something in the water," *New J Chem* **2007**, *31*(6):C41. http://www.rsc.org/Publishing/ChemScience/Volume/2007/06/Dublin_cocaine.asp. Batt AL. "Investigating the occurrence and fate of human and veterinary antibiotics in environmental water systems," 2006. 1978 pp.

http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2144702,FM=9,SEARCH=MD.GenericSearch.

Batt AL, and Aga DS. "Simultaneous analysis of multiple classes of antibiotics by ion trap LC/MS/MS for assessing surface water and groundwater contamination," *Anal Chem* **2005**, 77(9):2940-2947. http://cat.inist.fr/?aModele=afficheN&cpsidt=16758752.

Batt AL, Bruce IB, and Aga DS. "Evaluating the vulnerability of surface waters to antibiotic contamination from varying wastewater treatment plant discharges," *Environ Pollut* **2006**, *142*(2):295-302. http://www.sciencedirect.com/science/article/B6VB5-4HP6GF9-2/2/0a574ebd8d18d4096b8eb82003797129.

Batt AL, Kim S, and Aga DS. "Enhanced Biodegradation of Iopromide and Trimethoprim in Nitrifying Activated Sludge," *Environ Sci Technol* **2006**, *40*(23):7367-7373. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060835v.

Batt AL, Kim S, and Aga DS. "Comparison of the occurrence of antibiotics in four full-scale wastewater treatment plants with varying designs and operations," *Chemosphere* **2007**, *68*(3):428-435. http://www.sciencedirect.com/science/article/B6V74-4N3P521-1/2/a509ee3c3f1cc080c527998cbd2546dc.

Batt AL, Kostich MS, and Lazorchak JM. "Analysis of Ecologically Relevant Pharmaceuticals in Wastewater and Surface Water Using Selective Solid–Phase Extraction and UPLC-MS/MS," *Anal Chem* **2008**, http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac800066n.

Batt AL, Snow DD, and Aga DS. "Occurrence of sulfonamide antimicrobials in private water wells in Washington County, Idaho, USA," *Chemosphere* **2006**, *64*(11):1963-1971. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4JB9MR3-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=9f20218dbd42a3fc5e045976f038d45e.

Batt S. "Full Circle: Drugs, the Environment and Our Health," Atlantic Centre of Excellence for Women's Health, Halifax, NS, 2004, 17 pp. http://www.whp-apsf.ca/en/documents/fullCircle.html.

Bau M, Knappe A, and Dulski P. "Anthropogenic gadolinium as a micropollutant in river waters in Pennsylvania, and in Lake Erie, northeastern United States," *Chemie Der Erde-Geochem* **2006**, *66*(2):143-152. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B7CW6-4J8D95M-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=4e9688d766fbb561994dfb6632f10a43.

Bauer CG, Kuhn A, Gajovic N, Skorobogatko O, Holt PJ, Bruce NC, et al. "New enzyme sensors for morphine and codeine based on morphine dehydrogenase and laccase," *Fres J Anal Chem* **1999**, *364*:179-183. http://cat.inist.fr/?aModele=afficheN&cpsidt=1833008.

Bauer ERS, Daxenberger A, Petri T, Sauerwein H, and Meyer HHD. "Characterisation of the affinity of different anabolics and synthetic hormones to the human androgen receptor, human sex hormone

binding globulin and to the bovine progestin receptor," *APMIS* **2001**, *109*(103):S452-S460. http://cat.inist.fr/?aModele=afficheN&cpsidt=921189.

Baum RM. "No chemistry, no physics," Chem Eng News 2001, (September 3):5.

Baumgarten G, Jakobs D, and Muller H. "Treatment of AOX-containing nanofiltration and reverse osmosis," *Chemie Ingenieur Technik* **2004**, *76*:321-325.

Baumgarten S, Schroder HF, Charwath C, Lange M, Beier S, and Pinnekamp J. "Evaluation of advanced treatment technologies for the elimination of pharmaceutical compounds," *Wat Sci Technol* **2007**, *56*(5):1-8. http://www.ncbi.nlm.nih.gov/pubmed/17881831.

Bautitz IR, and Nogueira RFP. "Degradation of tetracycline by photo-Fenton process - Solar irradiation and matrix effects," *J Photochem Photobiol A: Chem* **2007**, *187*(1):33-39. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGY-4M0575M-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=0fcbfd5a1eadd735e43e936fb063b10d.

Bay Area Pollution Prevention Group. "Report on the San Francisco Bay area's safe medicine disposal days," San Francisco, CA, 2006, 45 pp.

Bayston R, Ashraf W, and Smith T. "Triclosan resistance in methicillin-resistant Staphylococcus aureus expressed as small colony variants: a novel mode of evasion of susceptibility to antiseptics--authors' response," *J Antimicrob Chemother* **2007**:dkm132. http://jac.oxfordjournals.org/cgi/content/abstract/59/5/848.

Bdour A, Altrabsheh B, Hadadin N, and Al-Shareif M. "Assessment of medical wastes management practice: A case study of the northern part of Jordan," *Waste Management* **2007**, *27*(6):746-759. http://www.sciencedirect.com/science/article/B6VFR-4K0FFTM-4/2/0b8e4f49d40002e490d80801f60ee895.

Beale B. "Probiotics: their tiny worlds are under scrutiny," *The Scientist* **2002**, *16*(15):20-22. http://www.accessmylibrary.com/coms2/summary_0286-2118406_ITM.

Beausse J. "Selected drugs in solid matrices: A review of environmental occurrence and properties of principal substances Horizontal - 26 (Pharmaceuticals)," *Energy Research Centre of the Netherlands* **2004**, (June):36 pp. http://www.ecn.nl/docs/society/horizontal/hor_desk_26_pharmaceuticals.pdf

Beausse J. "Selected drugs in solid matrices: a review of environmental determination, occurrence and properties of principal substances," *TrAC Trends in Anal Chem* **2004**, *23*(10-11):753-761. http://cat.inist.fr/?aModele=afficheN&cpsidt=16321995.

Bebak-Williams J, Bullock G, and Carson MC. "Oxytetracycline residues in a freshwater recirculating system," *Aquaculture* **2002**, *205*(3-4):221-230. http://www.sciencedirect.com/science/article/B6T4D-458NF7R-2/1/b475fa51afcf74f057731334e8f9975c.

Beca J. "Pharmaceutical discharge: Zero discharge for pharma plant," *Filtration & Separation* **2007**, *44*(6):40-41. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VJM-4P438PN-

19&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versio n=1&_urlVersion=0&_userid=6729288&md5=8649a4c40f4dadeb79e38b87d80ffe08.

Bechara IJ, Joazeiro PP, Marí-Beefa M, Becerra J, and Montes GS. "Collagen-affecting drugs impair regeneration of teleost tail fins," *J Submicrosc Cytol Pathol* **2000**, *32*(2):273-280. http://www.ncbi.nlm.nih.gov/pubmed/11085216.

Beck A. "Environmental assessment of pharmaceuticals in Canada: A regulatory perspective," *Drug Information J* **2007**, *41*(2):159-162.

http://www.thefree library.com/Environmental+Assessment+of+Pharmaceuticals+in+Canada:+A+Regulatory...-a01611041876.

Beck IC, Bruhn R, and Gandrass J. "Bioassay-directed fractionation for analyzing estrogens in surface waters of the German Baltic Sea," *Acta Hydrochim Hydrobiol* **2006**, *34*(6):560-567. http://www3.interscience.wiley.com/journal/114095989/abstract.

Beck IC, Bruhn R, Gandrass J, and Ruck W. "Liquid chromatography-tandem mass spectrometry analysis of estrogenic compounds in coastal surface water of the Baltic Sea," *J Chromatogr A* 2005, *1090*(1-2):98-106. http://cat.inist.fr/?aModele=afficheN&cpsidt=17056382.

Beck J, Totsche KU, and Kögel-Knabner I. "A rapid and efficient determination of natural estrogens in soils by pressurised liquid extraction and gas chromatography-mass spectrometry," *Chemosphere* **2008**, *71*(5):954-960. http://www.sciencedirect.com/science/article/B6V74-4RV7GPG-1/1/e2a2c07ab0154e183ef3a3928d7e3e4e.

Beck M, and Radke M. "Determination of sterols, estrogens and inorganic ions in waste water and size-segregated aerosol particles emitted from waste water treatment," *Chemosphere* **2006**, *64*(7):1134-1140. http://cat.inist.fr/?aModele=afficheN&cpsidt=18036172.

Bedner M. "LC-MS shows effects of chlorine on drugs in wastewaters," *TrAC Trends in Anal Chem* **2004**, *23*(10-11):VIII-IX.

Bedner M, and MacCrehan WA. "Reactions of the amine-containing drugs fluoxetine and metoprolol during chlorination and dechlorination processes used in wastewater treatment," *Chemosphere* **2006**, *65*(11):2130-2137. http://www.sciencedirect.com/science/article/B6V74-4KGPP85-4/2/08c9be2918ed38b3506569bbd521f912.

Bedner M, and MacCrehan WA. "Transformation of Acetaminophen by Chlorination Produces the Toxicants 1,4-Benzoquinone and N-Acetyl-p-benzoquinone Imine," *Environ Sci Technol* **2006**, *40*(2):516-522. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0509073.

Beecher N. "Public Perception of Biosolids Recycling: Developing Public Participation and Earning Trust," Water Environment Research Foundation (WERF), 2004, 140 pp. http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Resear ch/PublicationProfile.cfm&id=00-PUM-5.

Beecher N, Harrison E, Goldstein N, McDaniel M, Field P, and Susskind L. "Risk perception, risk communication, and stakeholder involvement for biosolids management and research," *J Environ Qual* **2005**, *34*(January-February):122-128. http://jeq.scijournals.org/cgi/content/abstract/34/1/122.

Beere HM, and Green DR. "Stress management - heat shock protein-70 and the regulation of apoptosis," *Trends Cell Biol* **2001**, *11*(1):6-10. http://www.sciencedirect.com/science/article/B6TCX-421TM20-3/1/176493c1dae5a4515224ec8ac8307d51.

Behechti A, Schramm KW, Attar A, Niederfellner J, and Kettrup A. "Acute aquatic toxicities of four musk xylene derivatives on Daphnia magna," *Wat Rese* **1998**, *32*(5):1704-1707. http://www.ingentaconnect.com/content/els/00431354/1998/00000032/00000005/art00361 http://dx.doi.org/10.1016/S0043-1354(97)00361-8.

Behnisch PA, Fujii K, Shiozaki K, Kawakami I, and Sakai S-i. "Estrogenic and dioxin-like potency in each step of a controlled landfill leachate treatment plant in Japan," *Chemosphere* **2001**, *43*(4-7):977-984. http://www.sciencedirect.com/science/article/B6V74-42Y13F8-2M/2/04c282e5a4e1b4d0b1ee9965190067f9.

Behr A, Brehme VA, Ewers CLJ, Gron H, Kimmel T, Küppers S, et al. "New developments in chemical engineering for the production of drug substances," *Chemie Ingenieur Technik* **2003**, *75*(1):417-427. http://cat.inist.fr/?aModele=afficheN&cpsidt=15476133.

Bekçi Z, Seki Y, and Cavas L. "Removal of malachite green by using an invasive marine alga Caulerpa racemosa var. cylindracea," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SFS0RX-2/1/d4cb0623665e51a62c394b780fb89c8d.

Bekci Z, Seki Y, and Yurdakoc MK. "Equilibrium studies for trimethoprim adsorption on montmorillonite KSF," *J Hazardous Mat* **2006**, *133*(1-3):233-242. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGF-4HNS6KV-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=9a80e1c2ad43c48daaa4ece438199552.

Bekci Z, Seki Y, and Yurdakoc MK. "A study of equilibrium and FTIR, SEM/EDS analysis of trimethoprim adsorption onto K10," *J Molecular Structure* **2007**, 827(1-3):67-74. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGS-4K6CR18-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=01739abd26bc30e0e46a0fc2d7f265fa.

Belden JB, Maul JD, and Lydy MJ. "Partitioning and photo degradation of ciprofloxacin in aqueous systems in the presence of organic matter," *Chemosphere* **2007**, *66*(8):1390-1395. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4MC71D4-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=36bb82af64f243ee3ec569f7b18249c7.

Belfroid AC, Van der Horst A, Vethaak AD, Schäfer AJ, Rijs GBJ, Wegener J, et al. "Analysis and occurrence of estrogenic hormones and their glucuronides in surface water and waste water in The Netherlands," *Sci Total Environ* **1999**, *225*(1-2):101-108. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-B/1/d498cb80d946a2f7848c1ea64a8be37f. Belgiorno V, Rizzo L, Fatta D, Della Rocca C, Lofrano G, Nikolaou A, et al. "Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse," *Desalination* **2007**, *215*(1-3):166-176. http://www.sciencedirect.com/science/article/B6TFX-4PH040N-R/2/345017bbc39583292ddb7f176bf0a2da.

Bell AM. "An endocrine disrupter increases growth and risky behavior in threespined stickleback (Gasterosteus aculeatus)," *Hormones and Behavior* **2004**, *45*(2):108-114. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WGC-4BJ2033-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=8f5182d2384626763606d9cc62807445.

Bellas J, Hilvarsson A, Birgersson G, and Granmo A. "Effects of medetomidine, a novel antifouling agent, on the burrowing bivalve Abra nitida (Muller)," *Chemosphere* **2006**, *65*(4):575-582. http://www.sciencedirect.com/science/article/B6V74-4JP9FR9-8/2/6b2272f192003e23612ee4d954ff4fa0.

BELLE. "Biological Effects of Low Level Exposures," Fifth International Conference HORMESIS: Implications for Toxicology, Medicine, and Risk Assessment, Northeast Regional Environmental Public Health Center, School of Public Health, University of Massachusetts, Amhearst, MA, 2006, http://www.belleonline.com/.

Belsito D, Bickers D, Bruze M, Calow P, Greim H, Hanifin JM, et al. "A toxicologic and dermatologic assessment of salicylates when used as fragrance ingredients," *Food Chem Toxicol* 2007, *45*(1, Supplement 1):S318-S361. http://www.ncbi.nlm.nih.gov/entrez/utils/fref.fcgi?PrId=3048&itool=AbstractPlus-def&uid=18022746&db=pubmed&url=http://linkinghub.elsevier.com/retrieve/pii/S0278-6915(07)00404-8.

Beltrán FJ, Pocostales P, Alvarez P, and Oropesa A. "Diclofenac removal from water with ozone and activated carbon," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4T0FF9V-7/1/501d4567f0d566b1aaf81244d189ecb7.

Ben W, Qiang Z, Adams C, Zhang H, and Chen L. "Simultaneous determination of sulfonamides, tetracyclines and tiamulin in swine wastewater by solid-phase extraction and liquid chromatographymass spectrometry," *J Chromatogr A* **2008**, *1202*(2):173-180. http://www.sciencedirect.com/science/article/B6TG8-4SYJS6M-7/1/87b1c7def9826d27d05670d924ebbd35.

Ben-David A, Oren Y, and Freger V. "Thermodynamic Factors in Partitioning and Rejection of Organic Compounds by Polyamide Composite Membranes," *Environ Sci Technol* **2006**, *40*(22):7023-7028. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0609912.

Bendz D, Paxeus NA, Ginn TR, and Loge FJ. "Occurrence and fate of pharmaceutically active compounds in the environment, a case study: Hoje River in Sweden," *J Hazardous Mat* **2005**, *122*(3):195-204. http://www.sciencedirect.com/science/article/B6TGF-4G0M406-1/2/11da91bd638bbae567379d6ea0a38cbc.

Benedetti F, Amanzio M, Baldi S, Casadio C, and Maggi G. "Inducing placebo respiratory depressant responses in humans via opioid receptors," *European J Neurosci* **1999**, *11*(2):625-631. http://www3.interscience.wiley.com/journal/121386794/abstract.

Benedetti F, Arduino C, and Amanzio M. "Somatotopic Activation of Opioid Systems by Target-Directed Expectations of Analgesia," *J Neurosci* **1999**, *19*(9):3639-3648. http://www.jneurosci.org/cgi/content/abstract/19/9/3639.

Bengtsson G, Fossum A, and Lindqvist R. "Persistence of plasmid RP4 in Pseudomonas putida and loss of its expression of antibiotic resistance in a groundwater microcosm," *Soil Biol Biochem* **2004**, *36*(6):999-1008. http://www.sciencedirect.com/science/article/B6TC7-4C47C69-1/2/d4931c45ecce8c70e2c9b8aa214bd54c.

Benijts T, Dams R, Günther W, Lambert W, and De Leenheer A. "Analysis of estrogenic contaminants in river water using liquid chromatography coupled to ion trap based mass spectrometry," *Rapid Communications in Mass Spectrometry* **2002**, *16*(14):1358-1364. http://dx.doi.org/10.1002/rcm.716.

Benito-Pena E, Moreno-Bondi MC, Orellana G, Maquieira K, and Van Amerongen A. "Development of a novel and automated fluorescent immunoassay for the analysis of beta-lactam antibiotics," *J Agric Food Chem* **2005**, *53*(17):6635-6642. http://pubs.acs.org/cgi-bin/abstract.cgi/jafcau/2005/53/i17/abs/jf0511502.html.

Benito-Pena E, Partal-Rodera AI, Leon-Gonzalez ME, and Moreno-Bondi MC. "Evaluation of mixed mode solid phase extraction cartridges for the preconcentration of beta-lactam antibiotics in wastewater using liquid chromatography with UV-DAD detection," *Anal Chimica Acta* **2006**, *556*(2):415-422. http://www.sciencedirect.com/science/article/B6TF4-4HG69W9-1/2/130aabf1d816efba4aa41152d9dc3805.

Benner J, Salhi E, Ternes T, and von Gunten U. "Ozonation of reverse osmosis concentrate: Kinetics and efficiency of beta blocker oxidation," *Wat Res* **2008**, *42*(12):3003-3012. http://www.sciencedirect.com/science/article/B6V73-4S6P1XF-2/1/36900db73b7bc35b46491a0f36c2920b.

Bennett GF. "Book Review: Endocrine Disrupters in Wastewater and Sludge Treatment Processes [James W. Birkett, John N. Lester (Eds.), Lewis Publishers, Boca Raton, FL, 2003, 304 pp., ISBN 1-56670-601-7]," *J Haz Mat* **2003**, *100*(1-3):317-318. http://www.sciencedirect.com/science/article/B6TGF-48KFG71-6/1/39b06932db7cbb652b6f55726fc3f5cb.

Benninghoff AD, and Williams DE. "Identification of a Transcriptional Fingerprint of Estrogen Exposure in Rainbow Trout Liver," *Toxicol Sci* **2008**, *101*(1):65-80. http://toxsci.oxfordjournals.org/cgi/content/abstract/101/1/65.

Benotti MJ. "Occurrence and fate of pharmaceuticals in wastewater – impacted environments using HPLC-ToF-MS," Doctoral Dissertation, State University of New York at Stony Brook, New York, NY, 2006. 324 pp. http://wwwlib.umi.com/dissertations/fullcit/3246768.

Benotti MJ, and Brownawell BJ. "Distributions of Pharmaceuticals in an Urban Estuary during both Dry- and Wet-Weather Conditions," *Environ Sci Technol* **2007**, *41*(16):5795-5802. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0629965.

Benotti MJ, Fisher SC, and Terracciano SA. "Occurrence of pharmaceuticals in shallow ground water of Suffolk County, New York, 2002-2005," Suffolk County Water Authority, 2006, 12 pp.

Bercu JP, Parke NJ, Fiori JM, and Meyerhoff RD. "Human health risk assessments for three neuropharmaceutical compounds in surface waters," *Regulatory Toxicol Pharmacol* **2008**, *50*(3):420-427. http://www.sciencedirect.com/science/article/B6WPT-4RR8YX2-5/1/76eee6658a3eb16b168b2f3cdc59e6da.

Berg C. "Environmental Pollutants and the Reproductive System in Birds: Developmental Effects of Estrogenic Compounds," Doctoral Dissertation, Uppsala University, Faculty of Science and Technology, Uppsala, Sweden, 2000. 63 pp. http://www.diva-portal.org/diva/getDocument?urn_nbn_se_uu_diva-501-1__fulltext.pdf.

Berger K, Petersen B, and Buening-Pfaue H. "Persistence of drugs occurring in liquid manure in the food chain," *Archiv fuer Lebensmittelhygeine* **1986**, *37*(4):99-102.

Bergh JJ, and Breytenbach J. "High-performance liquid chromatographic analysis of trimethroprim in the presence of its degradation products," *J Chromatogr* **1990**, *513*:392-396.

Berkowitz B, Dror I, and Yaron B. "PPCPs," in *Contaminant geochemistry*, Springer, 2008, 4.4, 86-89. http://www.springer.com/geosciences/book/978-3-540-74381-1?cm_mmc=Google-_-Book%20Search-_-Springer-_-0.

Berlin CM, Kacew S, Lawrence R, LaKind JS, and Campbell R. "Criteria for chemical selection for programs on human milk surveillance and research for environmental chemicals," *J Toxicol Environ Health - Part A - Current Issues* **2002**, *65*(22):1839-1851. http://www.ncbi.nlm.nih.gov/pubmed/12474858.

Bernard S, and Gray NF. "Aerobic digestion of pharmaceutical and domestic wastewater sludges at ambient temperature," *Wat Res* **2000**, *34*(3):725-734. http://www.sciencedirect.com/science/article/B6V73-3Y3PT09-3/1/be9044e5fe8a605930512146957baeb8.

Bernet D, Liedtke A, Bittner D, Eggen RIL, Kipfer S, Kung C, et al. "Gonadal malformations in whitefish from Lake Thun: Defining the case and evaluating the role of EDCs," *CHIMIA* **2008**, *62*(5):383-388. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000005/art00013.

Berry MA, and Rondinelli DA. "Environmental management in the pharmaceutical industry: integrating corporate responsibility and business strategy," *Environ Qual Manage* **2000**, *9*(3):21-35. http://dx.doi.org/10.1002/1520-6483(200021)9:3<21::AID-TQEM3>3.0.CO;2-4.

Berset JD, Kupper T, Etter R, and Tarradellas J. "Considerations about the enantio selective transformation of polycyclic musks in wastewater, treated wastewater and sewage sludge and analysis of their fate in a sequencing batch reactor plant," *Chemosphere* **2004**, *57*(8):987-996.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4DBSSPT-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=81fd6a46c802322456fed963add9a5e1.

Berset J-D, Bigler P, and Herren D. "Analysis of nitro musk compounds and their amino metabolites in liquid sewage sludges using NMR and mass spectrometry," *Anal Chem* **2000**, *72*(9):2124-2131. http://www.ncbi.nlm.nih.gov/pubmed/10815975 http://pubs.acs.org/cgi-bin/abstract.cgi/ancham/2000/72/i09/abs/ac991006d.html.

Bertelsen KM, Venkatakrishnan K, Von Moltke LL, Obach RS, and Greenblatt DJ. "Apparent mechanism-based inhibition of human CYP2D6 in vitro by paroxetine: Comparison with fluoxetine and quinidine," *Drug Metabolism Disposition: The Biological Fate of Chemicals* **2003**, *31*(3):289-293. http://dmd.aspetjournals.org/cgi/content/abstract/31/3/289.

Besse J-P, and Garric J. "Médicaments à usage humain: risque d'exposition et effets sur les milieux récepteurs. Proposition d'une liste de médicaments à usage humain à surveiller dans les eaux de surface continentales," Agence de l'Eau R.M.C., Lyon, June, 2007, 241 pp. http://www.norman-network.com/public/library/docs/rmc-medic_vf_juin2007.pdf.

Besse J-P, and Garric J. "Human pharmaceuticals in surface waters: Implementation of a prioritization methodology and application to the French situation," *Toxicol Lett* **2008**, *176*(2):104-123. http://www.sciencedirect.com/science/article/B6TCR-4R17TX2-1/2/3dfcae9a6112bd15143410a6c0824dc7.

Bester K. "Triclosan in a sewage treatment process—balances and monitoring data," *Wat Res* **2003**, *37*(16):3891-3896. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-496NJHF-4&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=14684&md5=c1c96b40039666a14cea51fff24cb2d2.

Bester K. "Retention characteristics and balance assessment for two polycyclic musk fragrances (HHCB and AHTN) in a typical German sewage treatment plant," *Chemosphere* **2004**, *57*(8):863-870. http://cat.inist.fr/?aModele=afficheN&cpsidt=16198901.

Bester K. "Comparison of TCPP concentrations in sludge and wastewater in a typical German sewage treatment plant - comparison of sewage sludge from 20 plants," *J Environ Monit* **2005**, *7*(5):509-513. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b502318a.

Bester K. "Fate of triclosan and triclosan-methyl in sewage treatment plants and surface waters," *Arch Environ Contam Toxicol* **2005**, *49*(1):9-17. http://www.springerlink.com/content/n65712v157t56820/.

Bester K. "Polycyclic musks in the Ruhr catchment area - transport, discharges of waste water, and transformations of HHCB, AHTN and HHCB-lactone," *J Environ Monit* **2005**, *7*(1):43-51. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b409213a.

Bester K. "Quantification with HPLC–MS/MS for environmental issues: quality assurance and quality assessment," *Anal Bioanal Chem* **2008**, *391*(1):15-20. http://dx.doi.org/10.1007/s00216-008-1991-2.

Bester K, and Hühnerfuss H. "Improvements of a combined size exclusion chromatography and solid phase extraction approach for the clean-up of marine sediment samples for trace analysis of pesticides," *Fres J Anal Chem* **1997**, *358*(5):630-634. http://dx.doi.org/10.1007/s002160050481.

Bester K, Huhnerfuss H, Lange W, Rimkus GG, and Theobald N. "Results of non target screening of lipophilic organic pollutants in the German bight II: polycyclic musk fragrances," *Wat Res* **1998**, *32*(6):1857-1863. http://www.sciencedirect.com/science/article/B6V73-3TGNX9P-1P/2/c42e88a4722ff90b4b96444a86e506c1.

Bethan B, Bester K, Hühnerfuss H, and Rimkus G. "Bromocyclen contamination of surface water, waste water and fish from Northern Germany, and gas chromatographic chiral separation," *Chemosphere* **1997**, *34*(11):2271-2280. http://www.sciencedirect.com/science/article/B6V74-3SVYRTP-S/1/9fb63810e5e548aac4dca60b84de1372.

Betts KS. "The genetics behind environmental stress," *Environ Sci Technol* **2000**, *34*(21):462-463. http://pubs.acs.org/cgi-bin/article.cgi/esthag-a/0000/34/i21/html/11tech.html.

Betts KS. "Keeping Drugs out of Drinking Water," *Environ Sci Technol* **2002**, *36*(1):377A-378A. http://www.mindfully.org/Water/2003/Pharmaceuticals-Drinking1oct02.htm.

Bhargava HN, and Leonard PA. "Triclosan: Applications and safety," *American Journal of Infection Control* **1996**, *24*(3):209-218. http://www.sciencedirect.com/science/article/B6W9M-4CDHJNS-2X/1/6d271a61b86d334b7923ac22e1db9fd0.

Bhaumik S, Christodoulatos C, Brodman BW, and Pal N. "Biodegradation of glycerol trinitrate by activated sludge: Cosubstrate requirements, inhibition, and kinetics," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **1998**, *33*(4):547-571. http://cat.inist.fr/?aModele=afficheN&cpsidt=2360381.

Bhavnani SM, Drake JA, Forrest A, Deinhart JA, Jones RN, Biedenbach DJ, et al. "A nationwide, multicenter, case-control study comparing risk factors, treatment, and outcome for vancomycin-resistant and -susceptible enterococcal bacteremia," *Diagnostic Microbiol Infectious Disease* **2000**, *36*(3):145-158. http://www.sciencedirect.com/science/article/B6T60-3YVDPX0-1/2/af4279b4fd9364945c398ea87f268dd4.

Biales AD, Bencic DC, Flick RW, Lazorchak J, and Lattier DL. "Quantification and associated variability of induced vitellogenin gene transcripts in fathead minnow (Pimephales promelas) by quantitative real-time polymerase chain reaction assay," *Environ Toxicol Chem* **2007**, *26*(2):287-296. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F06-213R.1.

Bialk HM, Hedman C, Castillo A, and Pedersen JA. "Laccase-Mediated Michael Addition of 15N-Sulfapyridine to a Model Humic Constituent," *Environ Sci Technol* **2007**, *41*(10):3593-3600. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0617338.

Bialk HM, Simpson AJ, and Pedersen JA. "Cross-Coupling of Sulfonamide Antimicrobial Agents with Model Humic Constituents," *Environ Sci Technol* **2005**, *39*(12):4463-4473. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0500916.

Biau S, Bayle S, Barbara PD, and Roig B. "The chick embryo: an animal model for detection of the effects of hormonal compounds," *Anal Bioanal Chem* **2007**, *387*(4):1397-1403. http://www.springerlink.com/content/159r3x588g226567/.

Bickers D, Calow P, Greim H, Hanifin JM, Rogers AE, Saurat JH, et al. "A toxicologic and dermatologic assessment of linalool and related esters when used as fragrance ingredients," *Food Chem Toxicol* **2003**, *41*(7):919-942. http://www.sciencedirect.com/science/article/B6T6P-48JSH5B-1/2/320502e630f2092aedceffbaa27bbe67.

Bickers DR, Calow P, Greim HA, Hanifin JM, Rogers AE, Saurat J-H, et al. "The safety assessment of fragrance materials," *Reg Toxicol Pharmacol* **2003**, *37*(2):218-273. http://www.sciencedirect.com/science/article/B6WPT-487KK3J-5/2/e1ede08e89b31cfadbc4dc925b8619dd.

BIDD "PharmGED: PharmacoGenetic Effect Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bidd.cz3.nus.edu.sg/phg/.

BIDD "TRMP Database: Therapeutically Relevant Multiple Pathways Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bidd.nus.edu.sg/group/trmp/trmp.asp.

BIDD "TTD: Therapeutic Target Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bidd.nus.edu.sg/group/cjttd/ttd.asp.

BIDD "TCMID: Traditional Chinese Medicine Information Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bidd.nus.edu.sg/group/tcm-id/tcmid.asp.

BIDD "Drug Adverse Reaction Target (DART)." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://xin.cz3.nus.edu.sg/group/drt/dart.asp.

BIDD "DITOP: Drug-induced toxicity related proteins database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bioinf.xmu.edu.cn/databases/ADR/index.html.

BIDD "ADME (Absorption, Distribution, Metabolism, Excretion) AP: Drug ADME Associated Protein Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008. http://bidd.nus.edu.sg/group/admeap/admeap.asp.

Biello D, "A stash in every flush," *Scientific American* December, 2007, 3 pp. http://www.sciamdigital.com/index.cfm?fa=Products.ViewIssuePreview&ISSUEID_CHAR=26483B A7-3048-8A5E-109D6597AA35AF10&ARTICLEID_CHAR=37184B50-3048-8A5E-10C31715168E0F41.

Bierkens J, Maes J, and Plaetse FV. "Dose-dependent induction of heat shock protein 70 synthesis in Raphidocelis subcapitata following exposure to different classes of environmental pollutants," *Environ*

Pollut **1998**, *101*(1):91-97. http://www.sciencedirect.com/science/article/B6VB5-3V1CG7N-9/2/9344119f8c652d8f169beb96a6e20a6f.

Bierkens JGEA. "Applications and pitfalls of stress-proteins in biomonitoring," *Toxicology* **2000**, *153*(1-3):61-72. http://www.sciencedirect.com/science/article/B6TCN-41PP0DM-5/1/4f64f59b598c894d81ab6a40102595bb.

Biggs ML, Haque R, Moore L, Smith A, Ferreccio C, and Hopenhayn-Rich C. "Arsenic-Laced Water in Chile," *Science* **1998**, *281*(5378):783. http://www.sciencemag.org/cgi/content/full/sci;281/5378/783g.

Bila D, Montalvão AF, Azevedo DdA, and Dezotti M. "Estrogenic activity removal of 17[beta]estradiol by ozonation and identification of by-products," *Chemosphere* **2007**, *69*(5):736-746. http://www.sciencedirect.com/science/article/B6V74-4P1G8PK-3/2/19c7cef8703c3a8b20db321dfc66dfcc.

Bila DM, and Dezotti M. "Pharmaceutical drugs in the environment," *Quimica Nova* **2003**, *26*(4):523-530. http://www.doaj.org/doaj?func=abstract&id=22078&toc=y.

Bila DM, and Dezotti M. "Endocrine disrupters in the environment: Part 1 - Effects and consequences," *Quimica Nova* **2007**, *30*(3): 651-666. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20073186559.

Binh CTT, Heuer H, Gomes NCM, Kotzerke A, Fulle M, Wilke B-M, et al. "Short-term effects of amoxicillin on bacterial communities in manured soil," *FEMS Microbiol Ecol* **2007**, *62*(3):290-302. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1574-6941.2007.00393.x.

Birkel M, Erking W, and Wetzelsberger N. "Improved internally standardized GC-ECD method for the determination of free and conjugated triclosan (Irgasan DP 300) in human plasma "*Methods Findings Exp Clin Pharmacol* **1993**, *15*(9):623-628. http://cat.inist.fr/?aModel=afficheN&cpsidt=3821484.

Biselli S, Gatermann R, Kallenborn R, Sydnes LK, and Hühnerfuss H. "Biotic and Abiotic Transformation Pathways of Synthetic Musks in the Aquatic Environment," in *Handbook Environ Chem*, Rimkus G, Ed., Springer-Verlag; Berlin, Germany, Part X, 2004, 189-211.

Bisson M, Strub MP, Ferrieres C, and Gabarda-Oliva D. "Characterization by both analytical and genotoxicological approaches of the gas effluents and clinkers produced by a specific incinerator for infectious wastes during the incineration of cytostatic drugs," *Toxicol Lett* **2007**, *172*(Supplement 1):S112-S113. http://www.sciencedirect.com/science/article/B6TCR-4PKH640-98/1/c901fb5816c7901cd8a1ba75654fbfc5.

Bistodeau TJ, Barber LB, Bartell SE, Cediel RA, Grove KJ, Klaustermeier J, et al. "Larval exposure to environmentally relevant mixtures of alkylphenolethoxylates reduces reproductive competence in male fathead minnows," *Aqua Toxicol* **2006**, *79*(3):268-277.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4K9BSJ2-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=3da4f39d555e0ffc3340d07fc6545b58. Bitsch N, Dudas C, Korner W, Failing K, Biselli S, Rimkus G, et al. "Estrogenic activity of musk fragrances detected by the E-screen assay using human MCF-7 cells," *Arch Environ Contam Toxicol* **2002**, *43*(3):257-264. http://www.springerlink.com/content/mpnjevxy3p76h4kc/.

Biyela PT, Lin J, and Bezuidenhout CC. "The role of aquatic ecosystems as reservoirs of antibiotic resistant bacteria and antibiotic resistance genes," *Water Sci Technol* **2004**, *50*(1):45-50. http://www.ncbi.nlm.nih.gov/pubmed/15318485.

Bjerregaard P, Andersen DN, Pedersen KL, Pedersen SN, and Korsgaard B. "Estrogenic effect of propylparaben (propylhydroxybenzoate) in rainbow trout Oncorhynchus mykiss after exposure via food and water," *Comp Biochem Physiol Part C - Toxicol Pharmacol* **2003**, *136*(4):309-317. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W89-4B6661P-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=0fdbb8b5f83adf3af555226a1d7f3a41.

Björk L. "Läkemedel som miljö- och hälsorisk (Medicines as environmental and health risks)," *Apoteket* **1997**, *2*(21-22).

Björklund H, Bondestam J, and Bylund G. "Residues of Oxytetracycline in Wild Fish and Sediments from Fish Farms," *Aquaculture* **1990**, *86*(4):359-367.

 $\label{eq:http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=2452836&q=author%3A%22Bjoerklund%22+intitle%3A%22Residues+of+oxytetracycline+in+wild+fish+and+sediments+...%22+&uid=792698393&setcookie=yes.$

Bjorklund HV, Rabergh CMI, and Bylund G. "Residues of oxolinic acid and oxytetracycline in fish and sediments from fish farms," Åbo Akademi University, Finland, 1991. pp.

Björkman J, Nagaev I, Berg OG, Hughes D, and Andersson DI. "Effects of environment on compensatory mutations to ameliorate costs of antibiotic resistance (summary by J. Bull; B. Levin "Mice are not furry petri dishes," same issue, 1409-1410)," *Science* **2000**, *287*(25 February):1479-1482. http://www.sciencemag.org/cgi/content/abstract/287/5457/1479?ck=nck.

Bjorlenius B, Wahlberg C, and Stockholm Water Company. "The sewage treatment plant - how does it work?," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2004, Chapter 2, 20-37. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Black C. "Curing the problem of discarding pills," *Seattle Post-Intelligencer* **2008**, http://seattlepi.nwsource.com/health/301869_hcenter01.html.

Black MC, and Armbrust K. "The Environmental Occurrence, Fate, and Ecotoxicity of Selective Serotonin Reuptake Inhibitors (SSRIs) in Aquatic Environments," USEPA, EPA Grant Number R829006, University of Georgia, Mississippi State University, 2001-2007.

Blackburn K, Stickney JA, Carlson-Lynch HL, McGinnis PM, Chappell L, and Felter SP. "Application of the threshold of toxicological concern approach to ingredients in personal and household care products," *Regulatory Toxicol Pharmacol* **2005**, *43*(3):249-259.

http://www.sciencedirect.com/science/article/B6WPT-4H80T3V-1/1/4d9a5e97fe12f6ac8bb1ef0115fc4bee.

Blackwell PA, Boxall ABA, Kay P, and Noble H. "Evaluation of a lower tier exposure assessment model for veterinary medicines," *J Agric Food Chem* **2005**, *53*(6):2192-2201. http://www.ncbi.nlm.nih.gov/entrez/utils/fref.fcgi?PrId=3001&itool=AbstractPlus-def&uid=15769156&db=pubmed&url=http://dx.doi.org/10.1021/jf049527b.

Blackwell PA, Holten Lutzhoft H-C, Ma H-P, Halling-Sorensen B, Boxall ABA, and Kay P. "Ultrasonic extraction of veterinary antibiotics from soils and pig slurry with SPE clean-up and LC-UV and fluorescence detection," *Talanta* **2004**, *64*(4):1058-1064. http://www.sciencedirect.com/science/article/B6THP-4CVVC45-1/2/79f48ba07e5bacc3a8b4b99a116c0fa7.

Blackwell PA, Kay P, and Boxall ABA. "The dissipation and transport of veterinary antibiotics in a sandy loam soil," *Chemosphere* **2007**, *67*(2):292-299. http://www.sciencedirect.com/science/article/B6V74-4MR7D4R-1/2/16b4804485efe2f6eac954da96cc69b7.

Blackwell PA, Lutzhoft H-CH, Ma H-P, Halling-Sorensen B, Boxall ABA, and Kay P. "Fast and robust simultaneous determination of three veterinary antibiotics in groundwater and surface water using a tandem solid-phase extraction with high-performance liquid chromatography-UV detection," *J Chromatogr A* **2004**, *1045*(1-2):111-117. http://www.sciencedirect.com/science/article/B6TG8-4CT60KG-4/2/933f49e138cda1d4bc22222e0bcbbefc.

Blackwood DJ, Ellis JB, Revitt DM, and Gilmour DJ. "Factors influencing exfiltration processes in sewers," *Wat Sci Technol* **2005**, *51*(2):147-154. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053053271.

Blaha T. "Health and environmental risks due to the usage of antimicrobials and antiparasitics — Strategies of avoidance and ways out," *DeutschtierärztlWschr* **1996**, *103*:278-280.

Blaise C, Gagné F, Eullaffroy P, and Férard F. "Ecotoxicity of selected pharmaceuticals of urban origin discharged to the Saint-Lawrence River (Québec, Canada): a review," *Brazil J Aquat Sci Toxicol* **2007**, *(in press)*.

Blaise C, Gagne F, Salazar M, Salazar S, Trottier S, and Hansen PD. "Experimentally-induced feminisation of freshwater mussels after long-term exposure to a municipal effluent," *Fres Environ Bull* **2003**, *12*(8):865-870.

http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=6090800&q=auth or%3A%22Blaise%22+intitle%3A%22Experimentally-

induced+feminisation+of+freshwater+...%22+&uid=792698393&setcookie=yes.

Blanco M, Gutierrez-Martin CB, Rodriguez-Ferri EF, Roberts MC, and Navas J. "Distribution of Tetracycline Resistance Genes in Actinobacillus pleuropneumoniae Isolates from Spain," *Antimicrob Agents Chemother* **2006**, *50*(2):702-708. http://aac.asm.org/cgi/content/abstract/50/2/702.

Blankespoor CL, Reimink RL, and Blankespoor HD. "Efficacy of praziquantel in treating natural schistosome infections in common mergansers," *J Parasitol* **2001**, 87(2):424-426.

http://www.bioone.org/perlserv/?request=get-abstract&doi=10.1645%2F0022-3395(2001)087%5B0424%3AEOPITN%5D2.0.CO%3B2.

Blanset DL, Zhang J, and Robson MG. "Probabilistic Estimates of Lifetime Daily Doses from Consumption of Drinking Water Containing Trace Levels of <i>N,N</i>-diethyl-meta-toluamide (DEET), Triclosan, or Acetaminophen and the Associated Risk to Human Health," *Human Ecolog Risk Assess* **2007**, *13*(3):615 - 631. http://www.informaworld.com/10.1080/10807030701341209.

Blasco MD, Esteve C, and Alcaide E. "Multiresistant waterborne pathogens isolated from water reservoirs and cooling systems," *J Appl Microbiol* **2008**, *In Press* http://www.blackwell-synergy.com/doi/abs/10.1111/j.1365-2672.2008.03765.x.

Blenkharn JI. "Medical wastes management in the south of Brazil," *Waste Management* **2006**, *26*(3):315-317. http://www.sciencedirect.com/science/article/B6VFR-4HDX6ND-1/2/c597c9955d39f17d495c40e75a5def0f.

Blenkinsopp A, and Bond CM. "The Potential and Pitfalls of Medicine Management: What Have We Learned So Far?," *Disease Management & Health Outcomes* **2008**, *16*(2):79-86. http://diseasemanagement.adisonline.com/pt/re/dmo/abstract.00115677-200816020-00002.htm;jsessionid=LXgKXnqFkt2F1J1zYMRdTRMBq4nzFpsS2lGkz2f6Qll5PkLpKdT2!1167962 659!181195628!8091!-1.

Bloomfield MS. "The spectrophotometric determination of hydroperoxide and peroxide in a lipid pharmaceutical product by flow injection analysis," *Analyst* **1999**, *124*(12):1865-1871. http://cat.inist.fr/?aModele=afficheN&cpsidt=1232596.

Bloomfield MS. "A sensitive and rapid assay for 4-aminophenol in paracetamol drug and tablet formulation, by flow injection analysis with spectrophotometric detection," *Talanta* **2002**, *58*(6):1301-1310. http://www.sciencedirect.com/science/article/B6THP-46X97PF-1/2/33360b6bb239357dcd845e004015ab05.

Bloomfield SF. "Significance of biocide usage and antimicrobial resistance in domiciliary environments," *J Appl Microbiol* **2002**, *92*(s1):144S-157S. http://dx.doi.org/10.1046/j.1365-2672.92.5s1.15.x.

Blount BC, Silva MJ, Caudill SP, Needham LL, Pirkle JL, Sampson EJ, et al. "Levels of seven urinary phthalate metabolites in a human reference population," *Environ Health Perspect* **2000**, *108*(10):979-982. http://ehpnet1.niehs.nih.gov/docs/2000/108-10/tox.html.

Bludovska M, Kotyzova D, Koutensky J, and Eybl V. "The influence of alpha-lipoic acid on the toxicity of cadmium," *General Physiol Biophysics* **1999**, *18*(October):28-32. http://www.ncbi.nlm.nih.gov/pubmed/10703716.

Blutstein H. "Note from the field: A forgotten pioneer of sustainability," *J Cleaner Production* **2003**, *11*(3):339-341. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VFX-45TTMN6-3&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=6729288&md5=d99267f735968f91e19295e3bc3cc0b0.

Boczek LA, Rice EW, Johnston B, and Johnson JR. "Occurrence of Antibiotic-Resistant Uropathogenic Escherichia coli Clonal Group A in Wastewater Effluents," *Appl Environ Microbiol* **2007**, *73*(13):4180-4184. http://aem.asm.org/cgi/content/abstract/73/13/4180.

Bodík I, Gaspariková E, Dancová L, Kalina A, Hutnan M, and Drtil M. "Influence of disinfectants on domestic wastewater treatment plant performance," *Bioresource Technol* **2008**, *99*(3):532-539. http://www.sciencedirect.com/science/article/B6V24-4N7RD41-3/1/d4badf3b166751dab811551e5d91b4d3.

Bodzek M, and Dudziak M. "Elimination of steroidal sex hormones by conventional water treatment and membrane processes," *Desalination* **2006**, *198*(1-3):24-32. http://www.sciencedirect.com/science/article/B6TFX-4M41H2V-6/2/b69beaf336dc49435c420d32e48ca3f6.

Bodzek M, and Dudziak M. "Removal of natural estrogens and synthetic compounds considered to be endocrine disrupting substances (EDs) by coagulation and nanofiltration," *Polish J Environ Studies* **2006**, *15*(1):35-40. http://www.pjoes.com/index.php?s=abs_id&id=2006150104.

Boethling RS, Lynch DG, Jaworska JS, Tunkel JL, Thom GC, and Webb S. "Using BiowinTM, Bayes, and batteries to predict ready biodegradability," *Environ Toxicol Chem* **2004**, *23*(4):911-920. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F03-280.

Bogers R, De Vries-Buitenweg S, Geuijen I, van de Waart B, Kuiper R, Van Der Linden S, et al. "An in vitro/in vivo screening assay as a sensitive tool to assess endocrine disruptive activity in surface water," *Environ Internat* **2007**, *33*(3):292-301. http://www.sciencedirect.com/science/article/B6V7X-4MC0TFH-2/2/2809d868d7ef89d5f1a9114c8b5819aa.

Bogers R, Mutsaerds E, Druke J, De Roode DF, Murk AJ, Van Der Burg B, et al. "Estrogenic endpoints in fish early life-stage tests: luciferase and vitellogenin induction in estrogen-responsive transgenic zebrafish," *Environ Toxicol Chem* **2006**, *25*(1):241-247. http://dx.doi.org/10.1897%2F05-234R.1.

Bohacek RS, McMartin C, and Guida WC. "The art and practice of structure-based drug design: A molecular modeling perspective," *Med Res Rev* **1996**, *16*(1):3-50. http://www3.interscience.wiley.com/journal/66503/abstract?CRETRY=1&SRETRY=0.

Böhmer W. "Occurrence of Polycyclic Musks in Sewage Sludge and their Behaviour in Soils and Plants. Part 2: Investigation of Polycyclic Musks in Soils and Plants (9 pp)," *J Soils Sediments* **2007**, 7(1):36-44. http://dx.doi.org/10.1065/jss2006.10.187.2.

Boillot C, Bazin C, Tissot-Guerraz F, Droguet J, Perraud M, Cetre JC, et al. "Daily physicochemical, microbiological and ecotoxicological fluctuations of a hospital effluent according to technical and care activities," *Science of The Total Environment* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4SY5WVV-1/1/50b1456a992a98c055c3a469b6e7bffa.

Boivin M. "The cost of medication waste," *Can Pharm J* **1997**:32-39. http://www.napra.ca/practice/toolkits/toolkit9/wastecost.pdf. Boleas S, Alonso C, Pro J, Babín BM, Fernández C, Carbonell G, et al. "Effects of sulfachlorpyridazine in MS.3-arable land: a multispecies soil system for assessing the environmental fate and effects of veterinary medicines," *Environ Toxicol Chem* **2005**, *24*(4):811-819. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F04-139R.1.

Boleas S, Alonso C, Pro J, Fernández C, Carbonell G, and Tarazona JV. "Toxicity of the antimicrobial oxytetracycline to soil organisms in a multi-species-soil system (MS·3) and influence of manure co-addition," *J Haz Mat* **2005**, *122*(3):233-241. http://www.sciencedirect.com/science/article/B6TGF-4FWSDTH-1/1/d8fe5749984573ffab668e5971e9f9da.

Boleas S, Fernandez C, and Tarazona JV. "Toxicological and kinetic-study of musk xylene in rainbowtrout, oncorhynchus-mykiss," *Bull Environ Contam Toxicol* **1996**, *57*(2):217-222. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=3996219&q=auth or%3A%22Boleas%22+intitle%3A%22Toxicological+and+kinetic+study+of+musk+xylene+in+...%2 2+&uid=792698393&setcookie=yes.

Boleda MR, Galceran MT, and Ventura F. "Trace determination of cannabinoids and opiates in wastewater and surface waters by ultra-performance liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2007**, *1175*(1):38-48. http://www.sciencedirect.com/science/article/B6TG8-4PXDM47-1/2/f7243be6ade1cf548e645d057d11cff5.

Bolelli L, Bobrovova Z, Ferri E, Fini F, Menotta S, Scandurra S, et al. "Bioluminescent bacteria assay of veterinary drugs in excreta of food-producing animals," *J Pharmaceutical Biomed Anal* **2006**, *42*(1):88-93. http://www.sciencedirect.com/science/article/B6TGX-4J5T5W4-4/2/015c70f9e4426f3e6f02669b84213085.

Bones J, Nesterenko P, Thomas K, and Paul B. "Dual gradient LC method for the determination of pharmaceutical residues in environmental samples using a monolithic silica reversed phase column," *Internat J Environ Anal Chem* **2006**, *86*(7):487-504. http://www.cefas.co.uk/publications/publication-abstract_aspx?abstract=4592.

Bones J, Thomas K, Nesterenko PN, and Paull B. "On-line preconcentration of pharmaceutical residues from large volume water samples using short reversed-phase monolithic cartridges coupled to LC-UV-ESI-MS," *Talanta* **2006**, *70*(5):1117-1128. http://www.sciencedirect.com/science/article/B6THP-4JK4P8B-2/2/c11f63d70156873cbf750852d6ed7979.

Bones J, Thomas KV, and Paull B. "Using environmental analytical data to estimate levels of community consumption of illicit drugs and abused pharamaceuticals," *J Environ Monit* **2007**, *9*:701-707. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b702799k.

Bonn D. "Call made for application of drug-donation guidelines," *The Lancet* **1999**, *353*(9170):2131-2131. http://www.sciencedirect.com/science/article/B6T1B-3YHX0RV-T/1/90e4adad004db42f23533b729b43a439.

Boran M, Altinok I, Capkin E, Karacam H, and Bicer V. "Acute toxicity of carbaryl, methiocarb, and carbosulfan to the rainbow trout (Oncorhynchus mykiss) and guppy (Poecilia reticulata)," *Turk J Vet*

Anim Sci 2007, 31(1):39-45. http://journals.tubitak.gov.tr/veterinary/issues/vet-07-31-1/vet-31-1-7-0601-31.pdf.

Boreen AL. "Enhanced photolysis in natural waters: Naturally occurring sensitizers, substrates, and applications to the fate of acquatic pollutants," Doctoral Dissertation, University of Minnesota, Minneapolis/St. Paul, Minnesota, 2006. 263 pp. http://wwwlib.umi.com/dissertations/fullcit/3225715.

Boreen AL, Arnold WA, and McNeill K. "Photochemical fate of pharmaceuticals in the environment: Sulfa drugs," Minnesota Water 2004, Minneapolis, MN, U497-U497.

Boreen AL, Arnold WA, and McNeill K. "Photodegradation of pharmaceuticals in the aquatic environment: A review," *Aqua Sci* **2003**, *65*(4): 320-341. http://www.springerlink.com/content/gn44ah29a3ja9pgn/.

Boreen AL, Arnold WA, and McNeill K. "Photochemical Fate of Sulfa Drugs in the Aquatic Environment: Sulfa Drugs Containing Five-Membered Heterocyclic Groups," *Environ Sci Technol* **2004**, *38*(14):3933-3940. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0353053.

Boreen AL, Arnold WA, and McNeill K. "Triplet-Sensitized Photodegradation of Sulfa Drugs Containing Six-Membered Heterocyclic Groups: Identification of an SO2 Extrusion Photoproduct," *Environ Sci Technol* **2005**, *39*(10):3630-3638. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048331p.

Borgert CJ. "Predicting interactions from mechanistic information: Can omic data validate theories?," *Toxicol Appl Pharmacol* **2007**, *223*(2):114-120. http://www.sciencedirect.com/science/article/B6WXH-4MT5JXB-4/1/25bcc7f1fc95b12e4a1addd5f6a03f3a.

Borgert CJ, Price B, Wells CS, and Simon GS. "Evaluating Chemical Interaction Studies for Mixture Risk Assessment," *Human Ecolog Risk Assess* **2001**, *7*(2):259-306. http://www.ingentaconnect.com/content/tandf/bher/2001/00000007/00000002/art00006 http://dx.doi.org/10.1080/20018091094376.

Borgert CJ, Quill TF, McCarty LS, and Mason AM. "Can mode of action predict mixture toxicity for risk assessment?," *Toxicol Appl Pharmacol* **2004**, *201*(2):85-96. http://www.sciencedirect.com/science/article/B6WXH-4CVR1SD-3/2/7a4adc738dc013a12a20292874b31850.

Borgmann U, Bennie DT, Ball AL, and Palabrica V. "Effect of a mixture of seven pharmaceuticals on Hyalella azteca over multiple generations," *Chemosphere* **2007**, *66*(7):1278-1283. http://www.sciencedirect.com/science/article/B6V74-4KSD81F-1/2/7ae456e8599f0e16034c097d9c273df0.

Borja A. "The European water framework directive: A challenge for nearshore, coastal and continental shelf research," *Continental Shelf Research* **2005**, *25*(14):1768-1783. http://www.sciencedirect.com/science/article/B6VBJ-4GV983W-4/2/3de6a787b5f92510c0c9274ee1b23932. Borman S. "End run around FDA?," *Chem Eng News* **1998**, *76*(22):45-47. http://cat.inist.fr/?aModele=afficheN&cpsidt=10465252.

Borman S. "Multivalency: strength in numbers," Chem Eng News 2000, (October 9):48-53.

Borman S. "In situ click chemistry: Templating strategy offers potential route to new drugs and other functional compounds," *Chem Eng News* **2002**, *80*(6):29-34.

Born SL, Api AM, Ford RA, Lefever FR, and Hawkins DR. "Comparative metabolism and kinetics of coumarin in mice and rats," *Food Chem Toxicol* **2003**, *41*(2):247-258. http://www.sciencedirect.com/science/article/B6T6P-47CP78B-4/2/d347add8e14cd4f54630477385ae3ef5.

Boroski M, Rodrigues AC, Garcia JC, Sampaio LC, Nozaki J, and Hioka N. "Combined electrocoagulation and TiO2 photoassisted treatment applied to wastewater effluents from pharmaceutical and cosmetic industries," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SJP7KG-8/1/d7b0d000431471b52636599cd85871f0.

Borremans M, Van Loco J, Roos P, and Goeyens L. "Validation of HPLC analysis of 2-phenoxyethanol, 1-phenoxypropan-2-ol, methyl, ethyl, propyl, butyl and benzyl 4-hydroxybenzoate (parabens) in cosmetic products, with emphasis on decision limit and detection capability," *Chromatographia* **2004**, *59*(1-2):47-53. http://cat.inist.fr/?aModele=afficheN&cpsidt=15576341.

Borski RJ. "Nongenomic Membrane Actions of Glucocorticoids in Vertebrates," *Trends Endocrinol Metabolism* **2000**, *11*(10):427-436. http://www.sciencedirect.com/science/article/B6T3K-41PP021-7/2/c7707a51398d55a625fa712d5b6ed330.

Borst P, Evers R, Kool M, and Wijnholds J. "A Family of Drug Transporters: the Multidrug Resistance-Associated Proteins," *J Natl Cancer Inst* **2000**, *92*(16):1295-1302. http://jnci.oxfordjournals.org/cgi/content/abstract/jnci;92/16/1295.

Bosch ME, Sánchez AJR, Rojas FS, and Ojeda CB. "Analytical methodologies for the determination of cisplatin," *J Pharm Biomed Anal* **2008**, *47*(3):451-459. http://www.sciencedirect.com/science/article/B6TGX-4RTM2XW-5/1/5973407eb305363d641a07b528394d30.

Bosch X, and Williams RJ. "Household antibiotic storage," *Science* **1998**, *281*(5378):783. http://www.sciencemag.org/cgi/content/full/281/5378/783h.

Bossio JP, Harry J, and Kinney CA. "Application of ultrasonic assisted extraction of chemically diverse organic compounds from soils and sediments," *Chemosphere* **2008**, *70*(5):858-864. http://www.sciencedirect.com/science/article/B6V74-4PKG5SP-1/1/78cc194437683d2efe73dfe7fee9e193.

Bosworth HB, Oddone EZ, and Weinberger M, Eds., "Patient Treatment Adherence Concepts, Interventions, and Measurement " Routledge, Taylor & Francis Group, 2005, pp. http://www.informaworld.com/smpp/title~content=t777347273~db=all. Bothe F, Dettmer K, and Engewald W. "Determination of perfume oil in household products by headspace solid-phase microextraction and fast capillary gas chromatography," *Chromatographia* **2003**, *57*(SUPP):S199-S206. http://direct.bl.uk/bld/PlaceOrder.do?UIN=131351902&ETOC=RN&from=searchengine.

Botitsi E, Frosyni C, and Tsipi D. "Determination of pharmaceuticals from different therapeutic classes in wastewaters by liquid chromatography-electrospray ionization-tandem mass spectrometry," *Anal Bioanal Chem* **2007**, *387*(4):1317-1327. http://www.springerlink.com/content/tt36h450002232l4/.

Bott CB, Duncan AJ, and Love NG. "Stress protein expression in domestic activated sludge in response to xenobiotic shock loading," *Water Sci Technol* **2001**, *43*(1):123-130. http://www.iwaponline.com/wst/04301/wst043010123.htm.

Bott CB, and Love NG. "The immunochemical detection of stress proteins in activated sludge exposed to toxic chemicals," *Wat Res* **2001**, *35*(1):91-100. http://www.sciencedirect.com/science/article/B6V73-41NCFHP-9/1/ccd6fc41dbb2e1ae70d69ab446617e5a.

Bottei EM, Gottsch SG, and Guinia PL. "Abstracts of the 2006 North American congress of clinical toxicology annual meeting. 31. Lack of uniform message about unwanted pharmaceutical disposal methods: Opportunity for education and outreach " *Clin Toxicol* **2006**, *44*(5):639.

Bottoni P, and Fidente R. "[A pilot study for the assessment of pharmaceuticals as water contaminants] Un primo contributo alla problematica dei farmaci come contaminanti delle acque," *Ann Ist Super Sanita* **2005**, *41*(3):333-342.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16552124.

Boucard T. "Environment Agency workshop on chronic aquatic ecotoxicity testing of human pharmaceuticals," Bristol, England, May, 2006, pp. http://publications.environment-agency.gov.uk/pdf/SCHO0506BKTJ-e-e.pdf.

Boudou A, and Ribeyre F. "Aquatic ecotoxicology: from the ecosystem to the cellular and molecular levels," *Environ Health Perspect* **1997**, *105*(Suppl 1):21-35. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1470317.

Bound JP, Kitsou K, and Voulvoulis N. "Household disposal of pharmaceuticals and perception of risk to the environment," *Environ Toxicol Pharmacol* **2006**, *21*(3):301-307. http://www.sciencedirect.com/science/article/B6T6D-4HJ47W6-1/2/c9ae9ea6814cb8b034247c3f3cfc3a24.

Bound JP, and Voulvoulis N. "Pharmaceuticals in the aquatic environment - a comparison of risk assessment strategies," *Chemosphere* **2004**, *56*(11):1143-1155. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4CTCSX9-9&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=049d5d91ebfe628c2cb8f6a7cc221dab. Bound JP, and Voulvoulis N. "Household disposal of pharmaceuticals as a pathway for aquatic contamination in the United Kingdom," *Environ Health Perspect* **2005**, *113*(12):1705-1711. http://dx.doi.org/

Bound JP, and Voulvoulis N. "Predicted and measured concentrations for selected pharmaceuticals in UK rivers: Implications for risk assessment," *Wat Res* **2006**, *40*(15):2885-2892. http://www.sciencedirect.com/science/article/B6V73-4KFV37W-2/2/8f615a918c7247b12bef03f75b949ec1.

Bourgeois BF, and Wad N. "Carbamazepine-10,11-diol steady-state serum levels and renal excretion during carbamazepine therapy in adults and children," *Ther Drug Monit* **1984**, *6*(3):259-265. http://www.ncbi.nlm.nih.gov/pubmed/6506133.

Bouvy M, Coma A, and Marino EL. "European survey about unused drugs," *Pharm World Sci* 2005, 27:A79.

Bouwer E. "Transformation of xenobiotics in biofilms," in *Structure and function of biofilms*, Characklis W and Wilderer P, Eds., John Wiley and Sons; New York, 1989, 251-267.

Bouwer H. "Integrated water management: emerging issues and challenges," *Agric Wat Management* **2000**, *45*(3):217-228. http://www.sciencedirect.com/science/article/B6T3X-40PXMRP-2/2/5917e9e3890fb85df1768f57a5085ebf.

Bouwer H. "Integrated water management for the 21st century: Problems and solutions," *J Irrig and Drain Engrg - ASCE* 2002, *128*(4):193-202.

http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=JIDEDH0001280000040001930 00001&idtype=cvips&gifs=yes.

Bovet C, Ruff M, Wortmann A, Eiler S, Granger F, Gerrits B, et al. "Identification of endocrinedisrupting compounds using nanoelectrospray ionization mass spectrometry," *CHIMIA* **2008**, *62*(5):329-334. *http://dx.doi.org/10.2533/chimia.2008.329*

http://www.ingentaconnect.com/content/scs/chimia/2008/0000062/00000005/art00004; jsessionid=jpciqcmp92nh.alexandra?format=print&token=0057191a2c7b356807e41225f406a432c31415448283c5f4523576b34272c5f7b3d6d3f4e4b3478bf7050e2.

Boxall AB, Johnson P, Smith EJ, Sinclair CJ, Stutt E, and Levy LS. "Uptake of veterinary medicines from soils into plants," *J Agric Food Chem* **2006**, *54*(6):2288-2297. http://pubs.acs.org/cgi-bin/abstract.cgi/jafcau/2006/54/i06/abs/jf053041t.html.

Boxall ABA. "The environmental side effects of medication - How are human and veterinary medicines in soils and water bodies affecting human and environmental health?," *Embo Reports* **2002**, *5*(12):1110-1116. http://www.nature.com/embor/journal/v5/n12/full/7400307.html.

Boxall ABA. "Fate and transport of veterinary medicines in the soil environment," in *Fate of pharmaceuticals in the environment and in water treatment systems*, Aga DS, Ed., CRC Press, Taylor & Francis Group; Boca Raton, FL, 2007, December 20. http://findarticles.com/p/articles/mi_m0QLT/is_2008_March/ai_n24919373. Boxall ABA. "Environmental side effects of medication," Slide Presentation, 2008. http://www.rss.org.uk/pdf/Environmental%20side%20effects%20of%20medication.pdf.

Boxall ABA. "Fate of veterinary medicines applied to soils," in *Pharmaceuticals in the environment*, 3rd ed.; Kummerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008.

Boxall ABA, Blackwell P, Cavallo R, Kay P, and Tolls J. "The sorption and transport of a sulphonamide antibiotic in soil systems," *Toxicol Lett* **2002**, *131*(1-2):19-28. http://www.sciencedirect.com/science/article/B6TCR-45DF9K0-1/2/f6729d7f0030411b25b287eefd98e665.

Boxall ABA, Fogg L, Blackwell PA, Kay P, and Pemberton EJ. "Review of Veterinary Medicines in the Environment," 2002, 251 pp. http://publications.environment-agency.gov.uk/pdf/SP6-012-8-TR-e-p.pdf

Boxall ABA, Fogg LA, Baird DJ, Lewis C, Telfer TC, Kolpin D, et al. "Targeted Monitoring Study for Veterinary Medicines in the Environment," Environment Agency, Bristol, England, 2006, pp. http://publications.environmentagency.gov.uk/pdf/SCHO0806BLHH-e-e.pdf.

Boxall ABA, Fogg LA, Blackwell PA, Kay P, Pemberton EJ, and Croxford A. "Veterinary medicines in the environment," *Rev Environ Contam Toxicol* **2004**, *180*:1-91. http://www.ncbi.nlm.nih.gov/pubmed/14561076.

Boxall ABA, Fogg LA, Kay P, Blackwel PA, Pemberton EJ, and Croxford A. "Prioritisation of veterinary medicines in the UK environment," *Toxicol Lett* **2003**, *142*(3):207-218. http://www.sciencedirect.com/science/article/B6TCR-4808N57-2/2/9a498e93fcb5b3218f15e75e25d89060.

Boxall ABA, Fogg LA, Pemberton EJ, Kolpin DW, and Baird DJ. "Prioritization, modeling and monitoring of veterinary medicines in the UK environment," *Abstracts of Papers of the AmChem Soc* **2004**, *228*(1, Aug 22):U617-U617.

Boxall ABA, Kolpin DW, Halling-Sorensen B, and Tolls J. "Are veterinary medicines causing environmental risks?," *Environ Sci Technol* **2003**, *37*(15):286A-294A. http://ec.europa.eu/research/endocrine/pdf/eravmis.pdf.

Boxall ABA, and Long C. "Veterinary medicines and the environment," *Environ Toxicol Chem* **2005**, *24*(4):759-760.

Boxall ABA, Oakes D, Ripley P, and Watts CD. "The application of predictive models in the environmental risk assessment of ECONOR©," *Chemosphere* **2000**, *40*(7):775-781. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-38/1/a81aa82bfa5d391e34ac15d0401ccaa9.

Boxall ABA, Sherratt TN, Pudner V, and Pope LJ. "A Screening Level Index for Assessing the Impacts of Veterinary Medicines on Dung Flies," *Environ Sci Technol* **2007**, *41*(7):2630-2635. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0618705.

Boxall ABA, Sinclair CJ, Fenner K, Kolpin D, and Maud SJ. "When synthetic chemicals degrade in the environment," *Environ Sci Technol* **2004**, *38*(19):368A-375A. http://pubs.acs.org/subscribe/journals/esthag-a/38/i19/toc/toc_i19.html.

Boyd B, Bjork H, Billing J, Shimelis O, Axelsson S, Leonora M, et al. "Development of an improved method for trace analysis of chloramphenicol using molecularly imprinted polymers," *J Chromatogr A* **2007**, *1174*(1-2):63-71. http://www.sciencedirect.com/science/article/B6TG8-4PKFH4R-3/2/7b5cd88b59af72f561a86e04bc27500a.

Boyd GR, and Grimm DA. "Occurrence of Pharmaceutical Contaminants and Screening of Treatment Alternatives for Southeastern Louisiana," *Ann NY Acad Sci* **2001**, *948*(1):80-89. http://www.annalsnyas.org/cgi/content/abstract/948/1/80.

Boyd GR, Palmeri JM, Zhang SY, and Grimm DA. "Pharmaceuticals and personal care products (PPCPs) and endocrine disrupting chemicals (EDCs) in stormwater canals and Bayou St. John in New Orleans, Louisiana, USA," *Sci Total Environ* **2004**, *333*(1/3):137-148. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20043180130.

Boyd GR, Reemtsma H, Grimm DA, and Mitra S. "Pharmaceuticals and personal care products (PPCPs) in surface and treated waters of Louisiana, USA and Ontario, Canada," *Sci Total Environ* **2003**, *311*(1-3):135-149. http://www.sciencedirect.com/science/article/B6V78-48CFSHJ-D/2/9d0bc8d066845f8f52172c1d3cf24dc5.

Boyd GR, Zhang S, and Grimm DA. "Naproxen removal from water by chlorination and biofilm processes," *Wat Res* **2005**, *39*(4):668-676. http://www.sciencedirect.com/science/article/B6V73-4F4R1T2-1/2/edece95b114538566aaa40c8314ec82f.

Bradley P, Barber L, Kolpin D, McMahon P, and Chapelle F. "Potential for 4-n-nonylphenol biodegradation in stream sediments," *Environ Toxicol Chem* **2007**, *In press*(2007) http://dx.doi.org/10.1897%2F07-333.

Bradley PM, Barber LB, Kolpin DW, McMahon PB, and Chapelle FH. "Biotransformation of caffeine, cotinine, and nicotine in stream sediments: implications for use as wastewater indicators," *Environ Toxicol Chem* **2007**, *26*(6):1116-1121.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17571675.

Bradley TJ, and Williams WH. "Evaluation of medicines returned in Manchester DUMP campaign," *Pharm J* **1975**, *215*:542.

Braga O, Smythe GA, Schafer AI, and Feitz AJ. "Steroid estrogens in ocean sediments," *Chemosphere* **2005**, *61*(6):827-833. http://www.sciencedirect.com/science/article/B6V74-4GFCPNM-1/2/1260898b1cf6d7e0c47843e88951892d.

Braga O, Smythe GA, Schäfer AI, and Feitz AJ. "Fate of steroid estrogens in Australian inland and coastal wastewater treatment plants," *Environ Sci Technol* **2005**, *39*(9):3351-3358. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i09/abs/es0501767.html. Braga O, Smythe GA, Schafer AI, and Feltz AJ. "Steroid estrogens in primary and tertiary wastewater treatment plants," *Wat Sci Technol* **2005**, *52*(8):273-278. http://www.ncbi.nlm.nih.gov/pubmed/16312977.

Brain RA. "Evaluation of the phytotoxic effects of pharmaceuticals in aquatic higher plants," Doctoral Dissertation, University of Guelph, Guelph, Ontario, Canada, 2006. 273 pp. http://wwwlib.umi.com/dissertations/fullcit/NR17760.

Brain RA, Bestari K, Sanderson H, Hanson ML, Wilson CJ, Johnson DJ, et al. "Aquatic microcosm assessment of the effects of tylosin on Lemna gibba and Myriophyllum spicatum," *Environ Pollut* **2005**, *133*(3):389-401. http://www.sciencedirect.com/science/article/B6VB5-4D75M1X-8/2/487afb847ff5b19f8ef468dec9a48719.

Brain RA, Hanson ML, Solomon KR, and Brooks BW. "Aquatic Plants Exposed to Pharmaceuticals: Effects and Risks," *Rev Environ Contamin Toxicol* **2008**, *192*:67-115. http://dx.doi.org/10.1007/978-0-387-71724-1_3.

Brain RA, Hanson ML, Solomon KR, and Brooks BW. "Targets, effects and risks in aquatic plants exposed to veterinary antibiotics," in *Veterinary pharmaceuticals in the environment*, Coats J and Henderson K, Eds., American Chemical Society; Washington, DC, ACS Symposium Series, 2008.

Brain RA, Johnson DJ, Richards SM, Hanson ML, Sanderson H, Lam MW, et al. "Microcosm evaluation of the effects of an eight pharmaceutical mixture to the aquatic macrophytes Lemna gibba and Myriophyllum sibiricum," *Aqua Toxicol* **2004**, *70*(1):23-40. http://www.sciencedirect.com/science/article/B6T4G-4DBSXKT-1/2/dcd0409144f9ac4643d9d3c831fa30c5.

Brain RA, Johnson DJ, Richards SM, Sanderson H, Sibley PK, and Solomon KR. "Effects of 25 pharmaceutical compounds to Lemna gibba using a seven-day static-renewal test," *Environ Toxicol Chem* **2004**, *23*(2):371-382. http://cat.inist.fr/?aModele=afficheN&cpsidt=15441715.

Brain RA, Reitsma TS, Lissemore LI, Bestari KJ, Sibley PK, and Solomon KR. "Herbicidal Effects of Statin Pharmaceuticals in Lemna gibba," *Environ Sci Technol* **2006**, *40*(16):5116-5123. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0600274.

Brain RA, Sanderson H, Sibley PK, and Solomon KR. "Probabilistic ecological hazard assessment: Evaluating pharmaceutical effects on aquatic higher plants as an example," *Ecotoxicol Environ Safety* **2006**, *64*(2):128-135. http://www.sciencedirect.com/science/article/B6WDM-4H9PN4K-1/2/ed735be3abd0c76f17dbd7a7fcacf903.

Brain RA, Wilson CJ, Johnson DJ, Sanderson H, Bestari K, Hanson ML, et al. "Effects of a mixture of tetracyclines to Lemna gibba and Myriophyllum sibiricum evaluated in aquatic microcosms," *Environ Pollut* **2005**, *138*(3):425-442. http://www.sciencedirect.com/science/article/B6VB5-4GJK8GG-1/2/dc8b7eb1ea66fb86c81e11474cfaa2da.

Brambilla G, Civitareale C, and Migliore L. "Experimental toxicity and analysis of bacitracin, flumequine and sulphadimethoxine in terrestrial and aquatic organisms as a predictive model for ecosystems damage," *Quim Anal* **1994**, *13*(1):S114-118. http://direct.bl.uk/bld/PlaceOrder.do?UIN=024379255&ETOC=EN&from=searchengine. Brambilla G, Patrizii M, De Filippis SP, Bonazzi G, Mantovi P, Barchi D, et al. "Oxytetracycline as environmental contaminant in arable lands," *Anal Chimica Acta* **2007**, *586*(1-2):326-329. http://www.sciencedirect.com/science/article/B6TF4-4M9Y1W3-B/2/c5013d312047d6617554a130713ea11b.

Bratton KD, Lillquist AS, Williams TD, and Lunte CE. "The determination and quantification of human pharmaceuticals in aqueous environmental samples," in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and time of flight MS: Analaysis of emerging contaminants*, Almagor UM, Ed., American Chemical Society, 2003, Chapter 12, 188-206. http://www.powells.com/biblio?isbn=9780841238251.

Brauch H-J. "Pharmaka und Hormone in der aquatischen Umwelt - Vorkommen von pharmaka und hormonen in grund-, oberflächenwässern und böden in Baden-württemberg [Medicines and hormones in the aquatic environment - Occurrence of medicines and hormones in basic, oberflächenwässern and grounds in Baden-Wuerttemberg]," National Institute for Environmental Protection Baden-Wuerttemberg, DVGW Technologiezentrum Water, Karlsruhe, Projekt-Nr. U33-00.01, 2002, 212 pp. http://www.xfaweb.baden-wuerttemberg.de/fofaweb/print/wb_u3300_01.pdf.

Braun P, Moeder M, Schrader S, Popp P, Kuschk P, and Engewald W. "Trace analysis of technical nonylphenol, bisphenol A and 17α -ethinylestradiol in wastewater using solid-phase microextraction and gas chromatography-mass spectrometry," *J Chromatogr A* **2003**, *988*(1):41-51. http://www.sciencedirect.com/science/article/B6TG8-47PG8R5-8/2/dca2c03925345cac75a3661a008cf5c9.

Braund R, Yuen YC, and Jung J. "Identification and quantification of medication returned to Otago pharmacies," *New Zealand Family Physician* **2007**, *34*(4):258-262. http://www.rnzcgp.org.nz/news/nzfp/Aug2007/Braund_August_07.pdf http://www.rnzcgp.org.nz/news/nzfp/Aug2007/contents.htm.

Bravo JC, Fernandez P, and Durand JS. "Flow injection fluorimetric determination of beta-estradiol using a molecularly imprinted polymer," *Anal Bioanal Chem* **2005**, *130*(10):1404-1409. http://www.ncbi.nlm.nih.gov/pubmed/16172666.

Braxton EJ. "Method and device for the disposal, recovery and recycling of pharmaceuticals from human wastes," United States Patent 6317900, 2001. http://www.freepatentsonline.com/6317900.html.

Braybrook S, John DN, and Leong K. "A survey of why medicines are returned to pharmacies," *Pharm J* **1999**, *263*:7063. http://www.pharmj.com/Editorial/19990918/pharmacypractice/braybrook2.html.

Brazell C, Freeman A, and Mosteller M. "Maximizing the value of medicines by including pharmacogenetic research in drug development and surveillance," *British J Clin Pharmacol* **2002**, *53*(3):224-231. http://www.blackwell-synergy.com/doi/abs/10.1046/j.0306-5251.2001.01556.x.

Breitholtz M, and Bengtsson BE. "Oestrogens have no Hormonal Effect on the Development and Reproduction of the Harpacticoid Copepod Nitocra spinipes," *Mar Pollut Bull* **2001**, *42*(10):879-886. http://www.sciencedirect.com/science/article/B6V6N-442XYRF-R/2/3b3e5c81c351d6bc880dbce60035020d. Breitholtz M, Rudén C, Ove Hansson S, and Bengtsson B-E. "Ten challenges for improved ecotoxicological testing in environmental risk assessment," *Ecotoxicol Environ Safety* **2006**, *63*(2):324-335. http://www.sciencedirect.com/science/article/B6WDM-4J0WTN6-1/1/911053f3bef76fd81c58f7b9f07088ae.

Breitholtz M, Wollenberger L, and Dinan L. "Effects of four synthetic musks on the life cycle of the harpacticoid copepod Nitocra spinipes," *Aqua Toxicol* **2003**, *63*(2):103-118. http://www.sciencedirect.com/science/article/B6T4G-472870G-2/2/869b0af5259e9096efa8938cc1f88703.

Breitzholtz M, and Bengtsson B-E. "Ecotoxicology," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 4, 54-69. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Brennen MB. "Waterworks - Research accelerates on advanced water-treatment technologies as their use in purification grows," *Chem Eng News* **2001**, *79*(15):32-38.

Breslow LH. "Best Pharmaceuticals for Children Act of 2002: The rise of the voluntary incentive structure and congressional refusal to require pediatric testing," *Harvard J Legislation* **2002**, *40*:133-192. http://www.fda.gov/opacom/laws/pharmkids/contents.html and http://www.law.harvard.edu/students/orgs/jol/vol40_1/hammer-breslow.pdf.

Breton R, and Boxall ABA. "Pharmaceuticals and personal care products in the environment: Regulatory drivers and research needs," *QSAR Combinatorial Sci* **2003**, *22*(3):399-409. http://www3.interscience.wiley.com/journal/104530183/abstract.

Brian JV, Augley JJ, and Braithwaite VA. "Endocrine disrupting effects on the nesting behaviour of male threespined stickleback Gasterosteus aculeatus L," *J Fish Biol* **2006**, *68*(6):1883-1890. http://www.ingentaconnect.com/content/bsc/jfb/2006/00000068/00000006/art00020 http://dx.doi.org/10.1111/j.0022-1112.2006.01053.x.

Brian JV, Harris CA, Scholze M, Backhaus T, Booy P, Lamoree M, et al. "Accurate prediction of the response of freshwater fish to a mixture of estrogenic chemicals," *Environ Health Perspect* **2005**, *113*(6):721-728. <Go to ISI>://CCC:000229460700034.

Brian JV, Harris CA, Scholze M, Kortenkamp A, Booy P, Lamoree M, et al. "Evidence of estrogenic mixture effects on the reproductive performance of fish," *Environ Sci Technol* **2007**, *41*(1):337-344. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i01/abs/es0617439.html.

Bridges B. "Fragrances and Health," *Environ Health Perspect* **1999**, *107*(7):A340. http://www.ncbi.nlm.nih.gov/pubmed/10405249?dopt=Citation.

Bridges B. "Fragrance: emerging health and environmental concerns," *J Flavour and Fragrance* 2002, *17*(5):361-371. http://www.fpinva.org/FragranceReview.htm.

Brigante M, DellaGreca M, Previtera L, Rubino M, and Temussi F. "Degradation of hydrochlorothiazide in water," *Environ Chem Letters* **2005**, *2*(4):195-198. http://direct.bl.uk/bld/PlaceOrder.do?UIN=165705048&ETOC=RN&from=searchengine.

Brij V, Richard DR, and Headley JV. "Effect of tetracycline on the colonization and growth of microbes on Scirpus lacustris litter in oligotrophic and eutrophic waters," *Aqua Microbial Ecol* **2007**, *47*(1):91-98. http://www.int-res.com/abstracts/ame/v47/n1/p91-98/.

Brillas E, Sires I, Arias C, Cabot PL, Centellas F, Rodriguez RM, et al. "Mineralization of paracetamol in aqueous medium by anodic oxidation with a boron-doped diamond electrode," *Chemosphere* **2005**, *58*(4):399-406. http://www.sciencedirect.com/science/article/B6V74-4DTTB2P-1/2/e8e3e50da2c963a133ee4ff5086480c4.

Briner W, and Papadopoulos FC. "Valproate enhances N-cadherin production in Xenopus embryos," *Neurotoxicol Teratol* **2000**, *22*(5):761-764. http://www.sciencedirect.com/science/article/B6T9X-41TN488-H/1/7efbd9ae52eb947d97b5208dcc5ee673.

Bringolf R, Cope W, Eads C, Shea D, Heltsley RM, Fraely S, et al. "Reproductive effects of the pharmaceutical fluoxetine on native freshwater mussels," 2008. <<u>http://www.epa.gov/r5water/wqb/presentations/cope_08.pdf</u>>.

Bringolf RB, and Summerfelt RC. "Reduction of estrogenic activity of municipal wastewater by aerated lagoon treatment facilities," *Environ Toxicol Chem* **2003**, *22*(1):77-83.

Brion F, Tyler CR, Palazzi X, Laillet B, Porcher JM, Garric J, et al. "Impacts of 17β-estradiol, including environmentally relevant concentrations, on reproduction after exposure during embryolarval-, juvenile- and adult-life stages in zebrafish (Danio rerio)," *Aqua Toxicol* **2004**, *68*(3):193-217. http://cat.inist.fr/?aModele=afficheN&cpsidt=15840442.

Brodeur JC, Woodburn KB, and Klecka GA. "Potentiation of the vitellogenic response to 17 alphaethinylestradiol by cortisol in the fathead minnow Pimephales priomelas," *Environ Toxicol Chem* **2005**, *24*(5):1125-1132.

Bronaugh RL, Yourick JJ, and Havery DC. "Dermal exposure assessment for the fragrance musk xylol," 1998, 56 pp.

Bronder E, and Klimpel A. "Unused drugs returned to the pharmacy-new data," *Int J Clin Pharmacol Ther* **2001**, *39*(11):480-483. http://www.ncbi.nlm.nih.gov/pubmed/11727967?dopt=Abstract.

Bronstein AC, Spyker DA, Cantilena LRJ, Green J, Rumack BH, and Heard SE. "2006 Annual Report of the American Association of Poison Control Centers' National Poison Data System (NPDS)," *Clin Toxicol* **2007**, *45*:815-917.

http://www.aapcc.org/Annual%20Reports/06Report/2006%20Annual%20Report%20Final.pdf.

Brooks B, Riley T, and Taylor R. "Water Quality of Effluent-dominated Ecosystems: Ecotoxicological, Hydrological, and Management Considerations," *Hydrobiologia* **2006**, *556*(1):365-379. http://www.springerlink.com/content/y03v744pr00xm470/.

Brooks BW. "Emerging contaminants: antibiotics in aquatic and terrestrial ecosystems," in *Enclopedia* of ecology, Jorgensen SE, Ed., Elsevier; Oxford, UK, 2008.

Brooks BW, Ankley G, Hobson J, Meyerhoff R, Lazorchak J, and Solomon K. "Aquatic hazard assessment of veterinary medicines," in *Veterinary pharmaceuticals in the environment*, Crane M, Barrett K and Boxall A, Eds., SETAC Press, Taylor and Francis, 2008.

Brooks BW, Chambliss CK, Stanley JK, Ramirez A, Banks KE, Johnson RD, et al. "Determination of select antidepressants in fish from an effluent-dominated stream," *Environ Toxicol Chem* **2005**, *24*(2):464-469.

Brooks BW, Foran CM, Peterson BN, Weston J, La Point TW, and Huggett DB. "Linkages between population demographics and municipal effluent estrogenicity," *Bull Environ Contam Toxicol* **2003**, *71*(3):504-511. http://www.ncbi.nlm.nih.gov/pubmed/14567576.

Brooks BW, Foran CM, Richards SM, Weston J, Turner PK, Stanley JK, et al. "Aquatic ecotoxicology of fluoxetine," *Toxicol Lett* **2003**, *142*(3):169-183. http://www.sciencedirect.com/science/article/B6TCR-48326CT-3/1/256c141b8e41fab282dcc620dc354fe7.

Brooks BW, and Huggett DB. "Human pharmaceuticals in the environment: current and future perspectives," 2008, pp.

Brooks BW, Huggett DB, Brain RA, and Ankley G. "Risk asessment considerations for veterinary medicines in aquatic systems," in *Veterinary pharmaceuticals in the environment*, Coats J and Henderson K, Eds., American Chemical Society; Washington, DC, ACS Symposium Series, 2008.

Brooks BW, Huggett DB, Brain RA, and Ankley G. "Risk asessment considerations for veterinary medicines in aquatic systems," in *Veterinary pharmaceuticals in the environment*, Coats J and Henderson K, Eds., American Chemical Society; Washington, DC, 2008.

Brooks BW, Richards SM, Weston J, Turner PK, Stanley JK, La Point TW, et al. "Aquatic ecotoxicology of fluoxetine: a review of recent research," in *Hot spot pollutants: Pharmaceuticals in the environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press, 2005, 165-187.

Brooks BW, Turner PK, Stanley JK, Weston JJ, Glidewell EA, Foran CM, et al. "Waterborne and sediment toxicity of fluoxetine to select organisms," *Chemosphere* **2003**, *52*(1):135-142. http://www.sciencedirect.com/science/article/B6V74-4840MB8-4/2/e18c65a1d156991554c1f3656224bf76.

Brooks J. "Drug testing a growth industry in Salt Lake City," *Canadian Med Assoc J* 2000, *162*(6):854.

Brooks M, "The power of the placebo effect "*New Scientist* 20 August, 2008, http://www.newscientist.com/channel/being-human/mg19926700.300-the-power-of-the-placebo-effect-.html.

Brorson T, Bjorklund I, Svenstam G, and Lantz R. "Comparison of two strategies for assessing ecotoxicological aspects of complex wastewater from a chemical-pharmaceutical plant," *Environ*

Toxicol Chem **1994**, *13*(4):543-552. http://dx.doi.org/10.1897%2F1552-8618%281994%2913%5B543%3ACOTSFA%5D2.0.CO%3B2.

Brorström-Lundén E, Svenson A, Viktor T, Woldegiorgis A, Remberger M, Kaj L, et al. "Mesurements of sucralose in the swedish screening program 2007," Swedish Environmental Research Institute Ltd., ICL Report B1769, Stockholm, Sweden, January, 2008, 24 pp. http://www.naturvardsverket.se/upload/02_tillstandet_i_miljon/Milj%C3%B6gifter/sukralos_ivl_08.pd f.

Brossa L, Marce RA, Borrull F, and Pocurull E. "Occurrence of twenty-six endocrine-disrupting compounds in environmental water samples from Catalonia, Spain," *Environ Toxicol Chem* **2005**, *24*(2):261-267.

Brossa L, Marce RM, Borrull F, and Pocurull E. "Application of on-line solid-phase extraction-gas chromatography-mass spectrometry to the determination of endocrine disruptors in water samples," *J Chromatogr A* **2002**, *963*(1-2):287-294. http://www.sciencedirect.com/science/article/B6TG8-45C01WB-2/2/6b116a3e6fa560700cfa7aa4677acc09.

Brouet A, Sonveaux P, Dessy C, Moniotte S, Balligand J-L, and Feron O. "Hsp90 and Caveolin Are Key Targets for the Proangiogenic Nitric Oxide-Mediated Effects of Statins," *Circ Res* **2001**, *89*(10):866-873. http://circres.ahajournals.org/cgi/content/abstract/89/10/866.

Brown AR, Riddle AM, Cunningham NL, Kedwards TJ, Shillabeer N, and Hutchinson TH. "Predicting the effects of endocrine disrupting chemicals on fish populations," *Human Ecolog Risk Assess* **2003**, *9*(3):761-788.

Brown C. "An evaluation of the potention for behavioural change in the purchase, use and disposal of domestic leaning and other products into the wastewater system," Cranfield University, School of Applied Sciences, 2007. 43 pp.

http://64.233.167.104/search?q=cache:CL9TysFO8ZAJ:https://dspace.lib.cranfield.ac.uk/bitstream/18 26/2511/1/Brown-2007.pdf+daughton+disposal&hl=en&ct=clnk&cd=88&gl=us.

Brown DC, Bradley BP, and Tedengren M. "Genetic and environmental regulation of HSP70 expression," *Mar Environ Res* **1995**, *39*(1-4):181-184. http://www.sciencedirect.com/science/article/B6V7H-3YRSGN3-5/2/770e19b68b57ee8ffa1e19cf23ed074c.

Brown JN, Paxeus N, Forlin L, and Larsson DGJ. "Variations in bioconcentration of human pharmaceuticals from sewage effluents into fish blood plasma," *Environ Toxicol Pharmacol* **2007**, *24*(3):267-274. http://www.sciencedirect.com/science/article/B6T6D-4P29KDF-1/2/f040117bf5fb5775bf96038fd4502649.

Brown KD. "Pharmaceutically Active Compounds in Residential and Hospital Effluent, Municipal Wastewater, and the Rio Grande in Albuquerque, New Mexico," The University of New Mexico, Albuquerque, NM, January 2004, 2004, 62 pp. http://www.unm.edu/~wrp/wrp-9.pdf.

Brown KD, Kulis J, Thomson B, Chapman TH, and Mawhinney DB. "Occurrence of antibiotics in hospital, residential, and dairy effluent, municipal wastewater, and the Rio Grande in New Mexico,"

Sci Total Environ **2006**, *366*(2-3):772-783. http://www.sciencedirect.com/science/article/B6V78-4HNS9XX-3/2/3d7f4ac8502b277d4293d1f7fb7cae54.

Brown KW, Schrab GE, and Donnelly KC. "Acute and genetic toxicity of municipal landfill leachate," Texas Water Resources Institute, Texas A&M University, October, 1991, 98 pp. <u>http://hdl.handle.net/1969.1/6182</u>.

Brown SB, Adams BA, Cyr DG, and Eales JG. "Contaminant effects on the teleost fish thyroid," *Environ Toxicol Chem* **2004**, *23*(7):1680-1701. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F03-242.

Brown VJ. "Fe-TAMLs - Catalyst for cleanup," Environ Health Perspect 2006, 114(11):A656-A659.

Brownawell BJ, and Iden CR. "Occurrence and Fate of Pharmaceuticals and Personal Care Products in Groundwater Environments," USEPA, EPA Grant Number: R829007, State University of New York at Stony Brook 2001-2005.

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1063/report/0.

Bruchet A, Hochereau C, Picard C, Decottignies V, Rodrigues JM, and Janex-Habibi ML. "Analysis of drugs and personal care products in French source and drinking waters: the analytical challenge and examples of application," *Wat Sci Technol* **2005**, *52*(8):53-61. http://cat.inist.fr/?aModele=afficheN&cpsidt=17395226.

Bruchet A, Prompsy C, Fillippi G, and Souali A. "A broad spectrum analytical scheme for the screening of endocrine disruptors (EDs), pharmaceuticals and personal care products in wastewaters and natural waters," *Wat Sci Technol* **2002**, *46*(3):97-104. http://www.iwaponline.com/wst/04603/wst046030097.htm.

Brucker-Davis F, Thayer K, and Colborn T. "Significant effects of mild endogenous hormonal changes in humans: considerations for low-dose testing," *Environ Health Perspect* **2001**, *109 Suppl* 1:21-26. http://www.ncbi.nlm.nih.gov/pubmed/11250802?dopt=Citation.

Brumley WCV, Katrina E., and Riddick LA. "Partial Characterization Of Biosolids: Lipophilic Organic Components," *Environmental Science: An Indian Journal* **2008**, *3*:3. http://tsijournals.com/esaij/Vol3Iss3/abs10.htm.

Brun EM, Bonet E, Puchades R, Maquieira, xc, and ngel. "Selective Enzyme-Linked Immunosorbent Assay for Triclosan. Application to Wastewater Treatment Plant Effluents," *Environ Sci Technol* **2008**, *42*(5):1665-1672. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702300s.

Brun GL, Bernier M, Losier R, eacute, Doe K, Jackman P, et al. "Pharmaceutically active compounds in Atlantic Canadian sewage treatment plant effluents and receiving waters, and potential for environmental effects as measured by acute and chronic aquatic toxicity," *Environ Toxicol Chem* **2006**, *25*(8):2163-2176. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F05-426R.1.

Brunn H, and Rimkus G. "Synthetic musk compounds - Application, environmental accumulation, and toxicology .2. Toxicology and conclusions," *Ernahrungs-Unschau* **1997**, *44*(1):4.

Brunner C, Baumann U, Pletscher E, and Eugster M. "Total degradation or environmental experiment?," *Tenside Surfactants Detergents* **2000**, *37*(5):276-280.

Bruno F, Curini R, Di Corcia A, Nazzari M, and Samperi R. "Method development for measuring trace levels of penicillins in aqueous environmental samples," *Rapid Commun Mass Spectrom* **2001**, *15*(16):1391-1400.

Bruun MS, Schmidt AS, Dalsgaard I, and Larsen JL. "Conjugal Transfer of Large Plasmids Conferring Oxytetracycline (OTC) Resistance: Transfer between Environmental Aeromonads, Fish-Pathogenic Bacteria, and Escherichia coli," *J Aqua Animal Health* **2003**, *15*(1):69-79. http://dx.doi.org/10.1577%2F1548-8667%282003%29015%3C0069%3ACTOLPC%3E2.0.CO%3B2.

Buchberger W. "Pharmaceutical residues in water - where do we stand today?," *Nachrichten Aus Chemie* **2006**, *54*(6):673-675.

Buchberger WW. "Novel analytical procedures for screening of drug residues in water, waste water, sediment and sludge," *Anal Chimica Acta* **2007**, *593*(2):129-139. http://www.sciencedirect.com/science/article/B6TF4-4NNYJBG-6/2/afef293265e1459d83712943eec54c14.

Buchner J. "Hsp90 & Co. - a holding for folding," *Trends Biochem Sci* **1999**, *24*(4):136-141. http://www.ingentaconnect.com/content/els/09680004/1999/00000024/00000004/art01373 http://dx.doi.org/10.1016/S0968-0004(99)01373-0.

Buckley DA. "Fragrance ingredient labelling in products on sale in the U.K," *British J Dermatol* **2007**, *157*:295-300. http://www.ingentaconnect.com/content/bsc/bjd/2007/00000157/0000002/art00012 http://dx.doi.org/10.1111/j.1365-2133.2007.08018.x.

Budzinski H, Devier MH, Labadie P, and Togola A. "Analysis of hormonal steroids in fish plasma and bile by coupling solid-phase extraction to GC/MS," *Anal Bioanal Chem* **2006**, *386*(5):1429-1439.

Budzinski H, and Togola A. "Drug residues in compartments of the aquatic environment," *Environment, Risques & Sante* **2006**, *5*(4):248-253. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/F9/resume.md?type=text.html.

Buerge IJ, Buser HR, Poiger T, and Muller MD. "Occurrence and Fate of the Cytostatic Drugs Cyclophosphamide and Ifosfamide in Wastewater and Surface Waters," *Environ Sci Technol* **2006**, *40*(23):7242-7250. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0609405.

Buerge IJ, Buser H-R, Muller MD, and Poiger T. "Behavior of the polycyclic musks HHCB and AHTN in lakes, two potential anthropogenic markers for domestic wastewater in surface waters," *Environ Sci Technol* **2003**, *37*(24):5636-5644. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i24/abs/es0300721.html.

Buerge IJ, Poiger T, Muller MD, and Buser HR. "Combined Sewer Overflows to Surface Waters Detected by the Anthropogenic Marker Caffeine," *Environ Sci Technol* **2006**, *40*(13):4096-4102. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0525531.

Buerge IJ, Poiger T, Müller MD, and H-R. B. "Caffeine, an anthropogenic marker for wastewater contamination of surface waters," *Environ Sci Technol* **2003**, *37*(4):691-700. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i04/abs/es020125z.html.

Buffle M-O, Schumacher J, Salhi E, Jekel M, and von Gunten U. "Measurement of the initial phase of ozone decomposition in water and wastewater by means of a continuous quench-flow system: Application to disinfection and pharmaceutical oxidation," *Wat Res* **2006**, *40*(9):1884-1894. http://www.sciencedirect.com/science/article/B6V73-4JS1MRK-1/2/3d8964f2659f9d9dd10d0386f6228771.

Bundy MM. "Design and test of a bench scale drinking water treatment plant for the evaluation of pharmaceutical fate," Masters Dissertation, Utah State University, Salt Lake City, Utah, 2003. 116 pp.

Bundy MM, Doucette WJ, McNeill L, and Ericson JF. "Removal of pharmaceuticals and related compounds by a bench-scale drinking water treatment system," *J Wat Supply Res Techol - Aqua* **2007**, *56*(2):105-115.

Buntner D. "Report of the limitations of conventional treatment processes of the most resistant PPs and new development," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 70 pp. http://www.knappe-eu.org/fichiers/45-Knappe%20D2.1%20Report%20of%20the%20limitations%20of%20conventional%20treatment%20pr ocesses....pdf.

Burba P, Geltenpoth H, and Nolte J. "Ultrafiltration behavior of selected pharmaceuticals on natural and synthetic membranes in the presence of humic-rich hydrocolloids," *Anal Bioanal Chem* **2005**, *382*(8):1934-1941.

Burgess C. "Estrogens in coastal waters. The sewage source," *Environ Health Perspect* **2003**, *111*(4):A232. http://www.ehponline.org/docs/2003/111-4/ss.html.

Burhenne J, Ludwig M, Nikoloudis P, and Spiteller M. "Photolytic degradation of fluoroquinolone carboxylic acids in aqueous solution, Part I: Primary photoproducts and half-lives," *Environ Sci Pollut Res* **1997**, *4*(1):10-15.

Burhenne J, Ludwig M, and Spiteller M. "Photolytic degradation of fluoroquinolone carboxylic acids in aqueous solution. Part II : Isolation and structural elucidation of polar photometabolites," *Environ Sci Pollut Res* **1997**, *4*(2):61-67.

Burhenne J, Ludwig M, and Spiteller M. "Polar photodegradation products of quinolones determined by HPLC/MS/MS," *Chemosphere* **1999**, *38*(6):1279-1286. http://www.sciencedirect.com/science/article/B6V74-3W0GB3D-C/1/74e252a815d3589bf7709315268fa240.

Burka JF, Hammell KL, Horsbert TE, Johnson GR, Rainnie DJ, and Spear DJ. "Drugs in salmonid aquaculture - A review," *J Vet Pharmacol Therapeut* **1997**, *20*(5):333-349.

Burke SL, Malpas SC, and Head GA. "Effect of rilmenidine on the cardiovascular responses to stress in the conscious rabbit," *J Autonomic Nervous System* **1998**, *72*(2-3):177-186.

http://www.sciencedirect.com/science/article/B6T05-3V5D7XB-H/2/7cfa7a75c2b6de78ed581181ddf505b4.

Burkhardt M, Muller J, and Knepper TP. "Biodegradation of persistent polar pollutants in wastewater: Comparison of an optimised lab-scale membrane bioreactor and activated sludge treatment," *Wat Res* **2006**, *40*(18):3419-3428. http://www.sciencedirect.com/science/article/B6V73-4KV3XKM-1/2/44684128768c95390b73909bb9028719.

Burkhardt M, and Stamm C. "Depth distribution of sulfonamide antibiotics in pore water of an undisturbed loamy grassland soil," *J Environ Qual* **2007**, *36*(2):588-596.

Burkhardt M, Stamm C, Waul C, Singer H, and Muller S. "Surface runoff and transport of sulfonamide antibiotics and tracers on manured grassland," *J Environ Qual* **2005**, *34*(4):1363-1371.

Burkhardt MR, Zaugg SD, Burbank TL, Olson MC, and Iverson JL. "Pressurized liquid extraction using water/isopropanol coupled with solid-phase extraction cleanup for semivolatile organic compounds, polycyclic aromatic hydrocarbons (PAH), and alkylated PAH homolog groups in sediment," *Anal Chimica Acta* **2005**, *549*(1-2):104-116. http://www.sciencedirect.com/science/article/B6TF4-4GNKRTR-1/2/6db47a7da6822ddf67cd2d29369e2eb5.

Burkhardt-Holm P, Segner H, Burki R, Peter A, Schubert S, Suter M, et al. "Estrogenic endocrine disruption in Switzerland: Assessment of fish exposure and effects," *CHIMIA* **2008**, *62*(5):376-382. http://dx.doi.org/10.2533/chimia.2008.376

http://www.ingentaconnect.com/content/scs/chimia/2008/0000062/0000005/art00012; jsessionid=uowzvog04vag.alexandra?format=print&token=005a1d492b33328793a447e2a46762c475f5d366634252c74762f53673f7b2f267738703375686f4900b9d23e6.

Burkholder J, Libra B, Weyer P, Heathcote S, Kolpin D, Thorne PS, et al. "Impacts of waste from concentrated animal feeding operations on water quality," *Environ Health Perspect* **2007**, *115*(2):308-312. http://www.ncbi.nlm.nih.gov/pubmed/17384784.

Burnat P, Robles F, and Do B. "High-performance liquid chromatographic determination of modafinil and its two metabolites in human plasma using solid-phase extraction," *J Chromatogr B: Biomed Sci Applications* **1998**, *706*(2):295-304. http://www.sciencedirect.com/science/article/B6TG9-3SBN0V8-G/2/e5410d305cb625973293f22df0379263.

Burnison BK, Hartmann A, Lister A, Servos MR, Ternes T, and Van Der Kraak GJ. "A toxicity identification evaluation approach to studying estrogenic substances in hog manure and agricultural runoff," *Environ Toxicol Chem* **2003**, 222(10):2243-2250. http://www.setacjournals.org/archive/1552-8618/22/10/pdf/i1552-8618-22-10-2243.pdf http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-437.

Bursch W, Fuerhacker M, Gemeiner M, Grillitsch B, Jungbauer A, Kreuzinger N, et al. "Endocrine disrupters in the aquatic environment: the Austrian approach – ARCEM," *Wat Sci Technol* **2004**, *50*(5):293-300.

Burton A. "Pharmaceuticals: A Headache for Water Treatment," *Environ Health Perspect* **2006**, *114*(5):A278. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1459959.

Buschini A, Giordani F, Pellacani C, Rossi C, and Poli P. "Cytotoxic and genotoxic potential of drinking water: A comparison between two different concentration methods," *Wat Res* **2008**, *42*(8-9):1999-2006. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4RC2NJF-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=d175b9dcd42e4b2c7f2b8f91d8c980cb.

Buser HR, Muller MD, and Theobald N. "Occurrence of the pharmaceutical drug clofibric acid and the herbicide mecoprop in various Swiss lakes and in the North Sea," *Environ Sci Technol* **1998**, *32*(1):188-192. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1998/32/i01/abs/es9705811.html.

Buser HR, Poiger T, and Muller MD. "Occurrence and Environmental Behavior of the Chiral Pharmaceutical Drug Ibuprofen in Surface Waters and in Wastewater," *Environ Sci Technol* **1999**, *33*(15):2529-2535. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es981014w.

Buser H-R, Balmer ME, Schmid P, and Kohler M. "Occurrence of UV filters 4-methylbenzylidene camphor and octocrylene in fish from various Swiss rivers with inputs from wastewater treatment plants," *Environ Sci Technol* **2006**, *40*(5):1427-1431. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i05/html/es052088s.html.

Buser H-R, Müller MD, Balmer ME, Poiger T, and Buerge IJ. "Stereoisomer composition of the chiral UV filter 4-methylbenzylidene camphor in environmental samples," *Environ Sci Technol* **2005**, *39*(9):3013-3019. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i09/abs/es048265r.html.

Buser H-R, Poiger T, and Muller MD. "Occurrence and fate of the pharmaceutical drug diclofenac in surface waters: Rapid photodegradation in a lake," *Environ Sci Technol* **1998**, *32*(22):3449-3456. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1998/32/i22/abs/es980301x.html.

Bustillos D. "Destroying Unused, Unopened Prescription Drugs at Taxpayer Expense: An Update," University of Houston - Law Center, Houston, TX, 2005, 2 pp. http://www.law.uh.edu/healthlaw/perspectives/August2005/(DB)DrugDestruction.pdf.

Buth JM, Arnold WA, and McNeill K. "Unexpected Products and Reaction Mechanisms of the Aqueous Chlorination of Cimetidine," *Environ Sci Technol* **2007**, *41*(17):6228-6233. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0706060.

Butler MN, and Weber JWJ. "Accelerated transformation and deactivation of erythromycin in superheated water. 2. Transformation reactions and bioassays," *Environ Sci Technol* **2005**, *39*(7):2301-2306. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2005/39/i07/html/es049397n.html.

Butler MN, and Weber WJ. "Accelerated Transformation and Deactivation of Erythromycin in Superheated Water. 1. Temperature Effects, Transformation Rates, and the Impacts of Dissolved Organic Matter," *Environ Sci Technol* **2005**, *39*(7):2294-2300. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es049398f.

Butte W, Schmidt S, and Schmidt A. "Photochemical degradation of nitrated musk compounds," *Chemosphere* **1999**, *38*(6):1287-1291. http://www.sciencedirect.com/science/article/B6V74-3W0GB3D-D/2/456c768dbbc7acfa21558256102019dd.

Butters M, Catterick D, Craig A, Curzons A, Dale D, Gillmore A, et al. "Critical Assessment of Pharmaceutical Processes - A Rationale for Changing the Synthetic Route," *ChemInform* **2006**, *37*(41) http://dx.doi.org/10.1002/chin.200641276.

Buxton HT, and Kolpin DW. "Pharmaceuticals, Hormones, and Other Organic Wastewater Contaminants in U.S. Streams," June, 2002, 1-4 pp. http://toxics.usgs.gov/pubs/FS-027-02/index.html.

Buyuksonmez F, and Sekeroglu S. "Presence of pharmaceuticals and personal care products (PPCPs) in biosolids and their degradation during composting," *J Residuals Sci Technol* **2005**, *2*(1):31-40.

Buzby ME. "Pharmaceuticals in the environment - a review of PhRMA initiatives," 4th Japan - US Government Conference on Drinking Water Quality Management and Wastewater Cotnrol, 2006, 165-183. http://www.nilim.go.jp/lab/bcg/siryou/tnn/tnn0402pdf/ks0402021.pdf.

Cabana H, Jiwan J-LH, Rozenberg R, Elisashvili V, Penninckx M, Agathos SN, et al. "Elimination of endocrine disrupting chemicals nonylphenol and bisphenol A and personal care product ingredient triclosan using enzyme preparation from the white rot fungus Coriolopsis polyzona," *Chemosphere* **2007**, *67*(4):770-778. http://www.sciencedirect.com/science/article/B6V74-4MG1NT7-B/2/cdf2f3d727247429e679fef473b1dc50.

Cabello FC. "Heavy use of prophylactic antibiotics in aquaculture: a growing problem for human and animal health and for the environment," *Environ Microbiol* **2006**, *8*(7):1137-1144. http://dx.doi.org/10.1111/j.1462-2920.2006.01054.x.

Cabeza MS, Gutiérrez EB, García GA, Avalos AH, and Hernández MAH. "Microbial transformations of testosterone to 5α-dihydrotestosterone by two species of Penicillium: P. chrysogenum and P. crustosum," *Steroids* **1999**, *64*(6):379-384. http://www.sciencedirect.com/science/article/B6TC9-3WWV06M-2/1/931cd9c5c5455eaf6a3a5fd723c2206e.

Cadby PA, Troy WR, Middleton JD, and Vey MGH. "Fragrances: are they safe?," *J Flavour and Fragrance* **2002**, *17*(6):472-477.

Cahill JD, Furlong ET, Burkhardt MR, Kolpin D, and Anderson LG. "Determination of pharmaceutical compounds in surface- and ground-water samples by solid-phase extraction and high-performance liquid chromatography-electrospray ionization mass spectrometry," *J Chromatogr A* **2004**, *1041*(1-2):171-180. http://www.sciencedirect.com/science/article/B6TG8-4CF17KM-1/2/07ea474f711558961fd2ecc91fc49f13.

Cai H, Kiplinger JP, Goetzinger WK, Cole RO, Laws KA, Foster M, et al. "A straightforward means of coupling preparative high-performance liquid chromatography and mass spectrometry," *Rapid Commun Mass Spectrom* **2002**, *16*:544-554.

Cai YQ, Wang L, Liang LN, Liu JS, Shi YL, Mou SF, et al. "Determination of several estrogens in serum by high-performance liquid chromatography with ultraviolet detection," *Chinese J Anal Chem* **2005**, *33*(7):913-916.

Cakmak G, Togan I, and Severcan F. "17 beta-estradiol induced compositional, structural and functional changes in rainbow trout liver, revealed by FT-IR spectroscopy: A comparative study with nonylphenol," *Aqua Toxicol* **2006**, *77*(1):53-63.

Calabrese EJ. "Expanding the Reference Dose Concept to Incorporate and Optimize Beneficial Effects While Preventing Toxic Responses from Nonessential Toxicants," *Regulatory Toxicol Pharmacol* **1996**, *24*(1):S68-S75. http://www.sciencedirect.com/science/article/B6WPT-45N455B-2H/1/c39fa8d6e71ce8f49734d66f8833e521.

Calabrese EJ. "Evidence That Hormesis Represents an "Overcompensation" Response to a Disruption in Homeostasis," *Ecotoxicol Environ Safety* **1999**, *42*(2):135-137. http://www.sciencedirect.com/science/article/B6WDM-45GWFGX-3P/1/b91005ad8e797066c42ee6d9dc2dddf1.

Calabrese EJ. "Societal Implications of Hormesis," *J Appl Toxicol* **2000**, *20*(2):91. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<91::AID-JAT638>3.0.CO;2-R.

Calabrese EJ. "Hormesis: changing view of the dose-response, a personal account of the history and current status," *Mutation Res/Rev Mutation Res* **2002**, *511*(3):181-189. http://www.sciencedirect.com/science/article/B6T2G-45Y04RB-2/1/4c61de405e6df651c296a062855ce835.

Calabrese EJ. "Hormesis: from marginalization to mainstream: A case for hormesis as the default dose-response model in risk assessment," *Toxicol Appl Pharmacol* **2004**, *197*(2):125-136. http://www.sciencedirect.com/science/article/B6WXH-4C1T2FR-3/2/7b1709a9f964015aa36e8b81ea6172be.

Calabrese EJ. "Hormesis outperforms threshold model in national cancer institute antitumor drug screening database," *Technol Sci* **2006**, *94*(2):368-378.

Calabrese EJ, and Baldwin LA. "The dose determines the stimulation (and posion): development of a chemical hormesis database," *Internat J Toxicol* **1997**, *16*:545-560. http://www.ingentaconnect.com/content/apl/uito/1997/00000016/0000006/art00002.

Calabrese EJ, and Baldwin LA. "A quantitatively-based methodology for the evaluation of chemical hormesis," *Human Ecolog Risk Assess* **1997**, *3*(4):545-554.

Calabrese EJ, and Baldwin LA. "A general classification of U-shaped dose-response relationships in toxicology and their mechanistic foundations," *Human Experimental Toxicol* **1998**, *17*(7):353-364. http://het.sagepub.com/cgi/content/abstract/17/7/353.

Calabrese EJ, and Baldwin LA. "Hormesis as a default parameter in RfD derivation," *Human Experimental Toxicol* **1998**, *17*(8):444-447. http://het.sagepub.com.

Calabrese EJ, and Baldwin LA. "Can the Concept of Hormesis Be Generalized to Carcinogenesis?," *Regulatory Toxicol Pharmacol* **1998**, *28*(3):230-241. http://www.sciencedirect.com/science/article/B6WPT-45M31RB-7/1/6471119c6f33932c185fb5e4d2b5acd9.

Calabrese EJ, and Baldwin LA. "Reevaluation of the fundamental dose-response relationship," *Bio Sci* **1999**, *49*(9):725-732. http://www.jstor.org/pss/1313681.

Calabrese EJ, and Baldwin LA. "Implementing Hormetic Effects in the Risk Assessment Process: Differentiating Beneficial and Adverse Hormetic Effects in the RfD Derivation Process," *Human Ecological Risk Assessment* **1999**, *5*:965-971.

http://www.ingentaconnect.com/content/tandf/bher/1999/00000005/00000005/art00010 http://dx.doi.org/10.1080/10807039991289257.

Calabrese EJ, and Baldwin LA. "Tales of two similar hypotheses: the rise and fall of chemical and radiation hormesis," *Human Experimental Toxicol* **2000**, *19*(1):85-97. http://het.sagepub.com/cgi/content/abstract/19/1/85.

Calabrese EJ, and Baldwin LA. "The marginalization of hormesis," *Human Experimental Toxicol* **2000**, *19*(1):32-40. http://het.sagepub.com/cgi/content/abstract/19/1/32.

Calabrese EJ, and Baldwin LA. "The effects of gamma rays on longevity," *Biogerontology* **2000**, *1*:309-319. http://www.ingentaconnect.com/content/klu/bgen/2000/00000001/00000004/00272681.

Calabrese EJ, and Baldwin LA. "Radiation hormesis: its historical foundations as a biological hypothesis," *Human Experimental Toxicol* **2000**, *19*(1):41-75. http://het.sagepub.com/cgi/content/abstract/19/1/41.

Calabrese EJ, and Baldwin LA. "Radiation hormesis: the demise of a legitimate hypothesis," *Human Experimental Toxicol* **2000**, *19*(1):76-84. http://het.sagepub.com/cgi/content/abstract/19/1/76.

Calabrese EJ, and Baldwin LA. "Chemical hormesis: its historical foundations as a biological hypothesis," *Human Experimental Toxicol* **2000**, *19*(1):2-31. http://cat.inist.fr/?aModele=afficheN&cpsidt=1388382.

Calabrese EJ, and Baldwin LA. "Application of chemical hormesis concept to risk assessment: repreoductive toxicity as an example," in *Toxicology in risk assessment*, Salem H and Olajos EJ, Eds., Taylor and Francis; New York, 2000, Chapter 10, 95- 106. http://books.google.com/books?id=ZZthTE8xM4C&dq=toxicology+in+risk+assessment+and+salem&pg=PP1&ots=neK6amzTx&source=citation&sig=HU1fomb6wwqwp9FxJyl6O1zu0BE&hl=en&prev=http://www.google.c om/search%3Fsourceid%3Dnavclient%26ie%3DUTF-8%26rls%3DGGLG,GGLG:2006-12,GGLG:en%26q%3Dtoxicology%2Bin%2Brisk%2Bassessment%2Band%2Bsalem&sa=X&oi=print &ct=result&cd=1&cad=bottom-3results#PPP1,M1.

Calabrese EJ, and Baldwin LA. "Hormesis: U-shaped dose responses and their centrality in toxicology," *Trends Pharmacol Sci* **2001**, *22*(6):285-291. http://www.sciencedirect.com/science/article/B6T1K-4373WXB-R/2/ef8c86a09f9052597e6795da26fc5b58.

Calabrese EJ, and Baldwin LA. "The Frequency of U-Shaped Dose Responses in the Toxicological Literature," *Toxicol Sci* **2001**, *62*(2):330-338. http://toxsci.oxfordjournals.org/cgi/content/abstract/62/2/330.

Calabrese EJ, and Baldwin LA. "U-Shaped dose-responses in biology, toxicology, and public health," *Annual Rev Public Health* **2001**, *22*(1):15-33. http://arjournals.annualreviews.org/doi/abs/10.1146/annurev.publhealth.22.1.15. Calabrese EJ, and Baldwin LA. "The Hormetic Dose-Response Model Is More Common than the Threshold Model in Toxicology," *Toxicol Sci* **2003**, *71*(2):246-250. http://toxsci.oxfordjournals.org/cgi/content/abstract/71/2/246.

Calabrese EJ, and Baldwin LA. "Toxicology rethinks its central belief," *Nature* **2003**, *421*(6924):691-692. http://dx.doi.org/10.1038/421691a.

Calabrese EJ, Baldwin LA, and Holland CD. "Hormesis: a highly generalizable and reproducible phenomenon with important implications for risk assessment," *Risk Anal* **1999**, *19*(2):261-281. http://www.ncbi.nlm.nih.gov/pubmed/10765404.

Calafat A, Wong L-Y, Ye Z, Reidy JA, and Needham LL. "Concentrations of the Sunscreen Agent, Benzophenone-3, in Residents of the United States: National Health and Nutrition Examination Survey 2003–2004 "*Environ Health Perspect* **2008**, *116*(4):A160 - A167.

Calafat AM, and Mckee RH. "Integrating biomonitoring exposure data into the risk assessment process: Phthalates [diethyl phthalate and di(2-ethylhexyl) phthalate] as a case study," *Environ Health Perspect* **2006**, *114*(11):1783-1789.

Calafat AM, Ye X, Wong L-Y, Reidy JA, and Needham LL. "Urinary Concentrations of Triclosan in the U.S. Population: 2003-2004," *Environ Health Perspect* **2008**, *116*(3):303-307. http://dx.doi.org.

Calamari D. "Risks related to the discharge of pharamaceuticals in the environment: Further research is needed," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 31, 431-438.

Calamari D, Zuccato E, Castiglioni S, Bagnati R, and Fanelli R. "Strategic survey of therapeutic drugs in the rivers Po and Lambro in northern Italy," *Environ Sci Technol* **2003**, *37*(7):1241-1248. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i07/abs/es020158e.html.

Caldwell DJ, Mastrocco F, Hutchinson TH, Lange R, Heijerick D, Janssen C, et al. "Derivation of an Aquatic Predicted No-Effect Concentration for the Synthetic Hormone, 17α-Ethinyl Estradiol," *Environ Sci Technol* **2008**, *In press* http://pubs.acs.org/cgi-bin/sample.cgi/esthag/asap/html/es800633q.html.

California Department of Public Health. "Medical Waste Management Program," 2007, 1 pp. http://www.cdph.ca.gov/certlic/medicalwaste/Pages/default.aspx.

Callahan MA, and Sexton K. "If cumulative risk assessment is the answer, what is the question?," *Environ Health Perspect* **2007**, *115*(5):799-806. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17520071.

Calleja MC, Personne G, and Geladi P. "The predictive potential of a battery of ecotoxicological tests for human acute toxicity," *Alternat Lab Animals* **1993**, *21*:330-349.

Callreus T. "The Precautionary Principle and Pharmaceutical Risk Management Current Opinion," *Drug Safety* **2005**, *28*(6):465-471. http://drugsafety.adisonline.com/pt/re/drs/abstract.00002018-

200528060-00001.htm;jsessionid=LHJTJVQPTMp47nF0hVQ0GyTZb12kTXMthhcYGdLM0yLCpYXKJP02!52 3807009!181195628!8091!-1.

Calmano W, Bilitewski U, Flemming HC, Hofmann T, Peiffer S, Ternes T, et al. "The German Water Chemical Society: Actual trends and fields of research in the principle committee 'Basic Research'," *Acta Hydrochim Hydrobiol* **2002**, *29*(6-7):419-427.

Calow P. "Variability: noise or information in ecotoxicology?," *Environ Toxicol Pharmacol* **1996**, 2(2-3):121-123. http://www.sciencedirect.com/science/article/B6T6D-3W2TCCK-9/2/40720fd19fe0d562073329300f35c983.

Calow P, and Forbes VE. "How do physiological responses to stress translate into ecological and evolutionary processes?," *Comp Biochem Physiol Part A: Mol Integrative Physiol* **1998**, *120*(1):11-16. http://www.ingentaconnect.com/content/els/10956433/1998/00000120/00000001/art10003 http://dx.doi.org/10.1016/S1095-6433(98)10003-X.

Calow P, and Forbes VE. "Does ecotoxicology inform ecological risk assessment?," *Environ Sci Technol* **2003**, *37*:146A-151A. http://www.bvsde.paho.org/cgi-bin/wxis.exe/iah/?IsisScript=iah/iah.xis&base=bvsde.bibliografica&lang=e&nextAction=lnk&exprSea rch=BVSDE.REP2000.00008248&indexSearch=ID.

Calow P, Sibly RM, and Forbes VE. "Risk assessment on the basis of simplified life-history scenarios," *Environ Toxicol Chem* **1997**, *16*(9):1983-1989. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(1997)016%3C1983%3ARAOTBO%3E2.3.CO%3B2.

Calza P, Massolino C, Monaco G, Medana C, and Baiocchi C. "Study of the photolytic and photocatalytic transformation of amiloride in water," *J Pharm Biomed Anal* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6TGX-4RM1KSY-2/1/e190b7f55e91570a48bd19ac17b463a5.

Calza P, Medana C, Baiocchi C, and Pelizzetti E. "Identification of degradation products by adopting GC or HPLC/MS techniques," *Current Anal Chem* **2005**, *1*(3):267-287.

Calza P, Medana C, Carbone F, Giancotti V, and Baiocchi C. "Characterization of intermediate compounds formed upon photoinduced degradation of quinolones by high-performance liquid chromatography/high-resolution multiple-stage mass spectrometry," *Rapid Comm Mass Spectrom* **2008**, *22*(10):1533-1552. http://www.ncbi.nlm.nih.gov/pubmed/18421702 http://www3.interscience.wiley.com/journal/118677443/abstract?CRETRY=1&SRETRY=0.

Calza P, Sakkas VA, Medana C, Baiocchi C, Dimou A, Pelizzetti E, et al. "Photocatalytic degradation study of diclofenac over aqueous TiO2 suspensions," *Appl Catalysis B: Environ* **2006**, *67*(3-4):197-205.

Camacho MD, Phillipson JD, Croft SL, Rock P, Marshall SJ, and Schiff PL. "In vitro activity of Triclisia patens and some bisbenzylisoquinoline alkaloids against Leishmania donovani and Tryanosoma brucei brucei "*Phytotherapy Res* **2002**, *16*(5):432-436. http://www3.interscience.wiley.com/journal/97518166/abstract. Cameron S. "Study by Alberta pharmacists indicates drug wastage a "mammoth" problem," *CMAJ* **1996**, *155*(11):1596-1598. http://www.ncbi.nlm.nih.gov/pubmed/8956837.

Caminada D, Escher C, and Fent K. "Cytotoxicity of pharmaceuticals found in aquatic systems: Comparison of PLHC-1 and RTG-2 fish cell lines," *Aqua Toxicol* **2006**, *79*(2):114-123. http://www.sciencedirect.com/science/article/B6T4G-4KBX4CK-1/2/4dd2563933ab69ff732c4c549ca8875e.

Campagnolo ER, Johnson KR, Karpati A, Rubin CS, Kolpin DW, Meyer MT, et al. "Antimicrobial residues in animal waste and water resources proximal to large-scale swine and poultry feeding operations," *Sci Total Environ* **2002**, *299*(1-3):89-95. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12462576.

Campbell AM, van Eldik R, Liebau E, Barrett J, Brophy PM, Teesdale-Spittle P, et al. "Towards validation of glutathione S-transferase (GST) as a filarial nematode drug target," *Chemico - Biolog Interactions* **2001**, *133*:240-243.

Campbell CG, Borglin SE, Green FB, Grayson A, Wozei E, and Stringfellow WT. "Biologically directed environmental monitoring, fate, and transport of estrogenic endocrine disrupting compounds in water: A review," *Chemosphere* **2006**, *65*(8):1265-1280. http://www.sciencedirect.com/science/article/B6V74-4KXDR2R-8/2/955bade8dfe1bb600b7992b2d0df05c0.

Campbell HV. "Pharmaceuticals in the environment: Regulatory and nonregulatory approaches," *Environ Law Reporter, Environ Law Institute* **2002**, *32 ELR 11200-11211*(October) http://www.eli.org.

Campbell PM, and Hutchinson TH. "Wildlife and endocrine disrupters: requirements for hazard identification," *Environ Toxicol Chem* **1998**, *17*(1):127-135. http://dx.doi.org/10.1897%2F1551-5028%281998%29017%3C0127%3AWAEDRF%3E2.3.CO%3B2.

Can NO, and Altiokka G. "Determination of azapropazone in its pharmaceutical form by HPLC and flow injection analysis," *J Liquid Chromatogr Related Technol* **2005**, *28*(6):857-869. http://home.anadolu.edu.tr/~nafizoc/.

Canadian Institute for Health Information (CIHI). "Drug Expenditure in Canada 1985 to 2003," Ottawa, Ontario, Canada, 2004, 148 pp. www.cihi.ca.

Canadian Society of Hospital Pharmacists (CSHP). "Guideline for handling and disposal of hazardous pharmaceuticals (including cytotoxic drugs)," 1997, pp. http://www.cshp.ca/productsServices/officialPublications/index_e.asp.

Candela L, Fabregat S, Josa A, Suriol J, Vigues N, and Mas J. "Assessment of soil and groundwater impacts by treated urban wastewater reuse. A case study: Application in a golf course (Girona, Spain)," *Sci Total Environ* **2007**, *374*(1):26-35. http://www.sciencedirect.com/science/article/B6V78-4MWXT58-B/2/aa1605013fc0285d1f697477fe7054a5.

Canesi L, Borghi C, Ciacci C, Fabbri R, Lorusso L, Vergani L, et al. "Short-term effects of environmentally relevant concentrations of EDC mixtures on Mytilus galloprovincialis digestive gland," *Aqua Toxicol* **2008**, *87*(4):272-279.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4S1C85G-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=d483b88c3b483dee1145ed29e76cd28c.

Canesi L, Ciacci C, Lorusso LC, Betti M, Gallo G, Pojana G, et al. "Effects of Triclosan on Mytilus galloprovincialis hemocyte function and digestive gland enzyme activities: possible modes of action on non target organisms," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2007**, *145*(3):464-472.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17347055.

Canesi L, Lorusso LC, Ciacci C, Betti M, Regoli F, Poiana G, et al. "Effects of blood lipid lowering pharmaceuticals (bezafibrate and gemfibrozil) on immune and digestive gland functions of the bivalve mollusc, Mytilus galloprovincialis," *Chemosphere* **2007**, *69*(6):994-1002. http://www.sciencedirect.com/science/article/B6V74-4P00RWT-1/2/7ada998ca29fd3f38371d74e30e48a35.

Canesi L, Lorusso LC, Ciacci C, Betti M, Rocchi M, Pojana G, et al. "Immunomodulation of Mytilus hemocytes by individual estorgenic chemicals and environmentally relevant mixtures of estrogens; In vitro and in vivo studies," *Aqua Toxicol* **2007**, *81*(1):36-44.

Cannon J. "Pharmacology for Chemists." New York, NY, American Chemical Society and Oxford Press, 1999, 288 pp.

Canonica S, Meunier L, and von Gunten U. "Phototransformation of selected pharmaceuticals during UV treatment of drinking water," *Wat Res* **2008**, *42*(1-2):121-128. http://www.sciencedirect.com/science/article/B6V73-4P8SJ73-6/1/eccb73ced5c03c65d0853be8acf58745.

Canosa P, Rodriguez I, Rubi E, Bollain MH, and Cela R. "Optimisation of a solid-phase microextraction method for the determination of parabens in water samples at the low ng per litre level," *J Chromatogr A* **2006**, *1124*(1-2):3-10. http://www.sciencedirect.com/science/article/B6TG8-4JMVHSG-F/2/a33ab567ce176aab6986f018e961201b.

Canosa P, Rodriguez I, Rubi E, and Cela R. "Optimization of solid-phase microextraction conditions for the determination of triclosan and possible related compounds in water samples," *J Chromatogr A* **2005**, *1072*(1):107-115. http://www.sciencedirect.com/science/article/B6TG8-4DXSRFV-4/2/f772256deb049344060c4931e42f4a4c.

Canosa P, Rodriguez I, Rubi E, and Cela R. "Determination of parabens and triclosan in indoor dust using matrix solid-phase dispersion and gas chromatography with tandem mass spectrometry," *Anal Chem* **2007**, *79*(4):1675-1681. http://cat.inist.fr/?aModele=afficheN&cpsidt=18534011.

Canosa P, Rodriguez I, Rubi E, Negreira N, and Cela R. "Formation of halogenated by-products of parabens in chlorinated water," *Anal Chimica Acta* **2006**, *575*(1):106-113.

http://www.sciencedirect.com/science/article/B6TF4-4K242WP-J/2/2f2a17367bbf3541c3f80f1284425b79.

Canosa P, Rodriguez I, Rubi E, Ramil M, and Cela R. "Simplified sample preparation method for triclosan and methyltriclosan determination in biota and foodstuff samples," *J Chromatogr A* **2008**, *1188*(2):132-139. http://www.ncbi.nlm.nih.gov/pubmed/18329035.

Canterino M, Andreozzi R, Caprio V, Iamarino M, Marotta R, and Tufano V. "Removal of organic pollutants from soil: The ozonation of clofibric acid in aqueous slurries," *Ozone-Sci Eng* **2006**, *28*(1):47-52.

Canterino M, Marotta R, Temussi F, and Zarrelli A. "Photochemical behaviour of musk tibetene - A chemical and kinetic investigation," *Environ Sci Pollut Res* **2008**, *15*(3):182-187. http://lib.bioinfo.pl/pmid:18504835.

Capdevielle M, Van Egmond R, Whelan M, Versteeg D, Hofmann-Kamensky M, Inauen J, et al. "Consideration of exposure and species sensitivity of triclosan in the freshwater environment " *Integrated Environ Assessment and Management* **2007**, *4*(1):15-23. http://www.bioone.org/perlserv/?request=get-pdf&doi=10.1897%2FIEAM_2007-022.1.

Capella-Peiro E, Monferrer-Pons L, Garcia-Alvarez-Coque C, and Esteve-Romero J. "Flow-injection spectrophotometric determination of nicotinic acid in micellar medium of N-cetylpyridinium chloride," *Anal Chimica Acta* **2001**, *427*(1):93-100. http://www.sciencedirect.com/science/article/B6TF4-41TMP0N-C/2/834c6e6b5d2b7ba675dadd280130f618.

Capitan-Vallvey LF, Ariza A, Checa R, and Navas N. "Liquid chromatography-mass spectrometry determination of six 5-nitroimidazoles in animal feedstuff," *Chromatographia* **2007**, *65*(5-6):283-290.

Capleton AC, Courage C, Rumsby P, Holmes P, Stutt E, Boxall ABA, et al. "Prioritising veterinary medicines according to their potential indirect human exposure and toxicity profile," *Toxicol Lett* **2006**, *163*(3):213-223. http://www.sciencedirect.com/science/article/B6TCR-4JCCJS3-1/2/758a3c7252e248e5a8641cb011244304.

Carabin H, Escalona M, Marshall C, Vivas-Martinez S, Botto C, Joseph L, et al. "Prediction of community prevalence of human onchocerciasis in the Amazonian onchocerciasis focus: Bayesian approach," *Bull World Health Org* **2003**, *81*(7):482-490.

Carballa M, Fink G, Omil F, Lema JM, and Ternes T. "Determination of the solid-water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge," *Wat Res* **2008**, *42*(1-2):287-295. http://www.sciencedirect.com/science/article/B6V73-4P77811-1/2/37f0459fef16d361518ab07d10715566.

Carballa M, Manterola G, Larrea L, Ternes T, Omil F, and Lema JM. "Influence of ozone pretreatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products," *Chemosphere* **2007**, *67*(7):1444-1452. http://www.sciencedirect.com/science/article/B6V74-4MG1NT7-4/2/fe197abcbef58d7b8019ea95401e0b91. Carballa M, Omil F, Alder AC, and Lema JM. "Comparison between the conventional anaerobic digestion of sewage sludge and its combination with a chemical or thermal pre-treatment concerning the removal of pharmaceuticals and personal care products," *Wat Sci Technol* **2006**, *53*(8):109-117.

Carballa M, Omil F, and Lema JM. "Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment," *Wat Res* **2005**, *39*(19):4790-4796. http://www.sciencedirect.com/science/article/B6V73-4HD8B54-4/2/0641153fda94769d4094835480901e11.

Carballa M, Omil F, and Lema JM. "Calculation Methods to Perform Mass Balances of Micropollutants in Sewage Treatment Plants. Application to Pharmaceutical and Personal Care Products (PPCPs)," *Environ Sci Technol* **2007**, *41*(3):884-890. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es061581g.

Carballa M, Omil F, and Lema JM. "Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage," *Chemosphere* **2008**, 72(8):1118-1123. http://www.sciencedirect.com/science/article/B6V74-4SN92D9-5/1/424e1600549f7867644803cbc025a3d2.

Carballa M, Omil F, Lema JM, Llompart M, Garcia C, Rodriguez I, et al. "Behaviour of pharmaceuticals and personal care products in a sewage treatment plant of northwest Spain," *Wat Sci Technol* **2005**, *52*(8):29-35. http://cat.inist.fr/?aModel=afficheN&cpsidt=17395223.

Carballa M, Omil F, Lema JM, Llompart M, Garcia-Jares C, Rodriguez I, et al. "Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant," *Wat Res* **2004**, *38*(12):2918-2926. http://www.sciencedirect.com/science/article/B6V73-4CPDDSY-1/2/c74a075630d5b729809030af0f0f8121.

Carballa M, Omil F, Lema JM, and Ternes T. "Fate of PPCPs during anaerobic treatment of sewage sludge," POSEIDON Symposium - Presentation of project results.

Carballa M, Omil F, Ternes T, and Lema JM. "Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge," *Wat Res* **2007**, *41*(10):2139-2150. http://www.sciencedirect.com/science/article/B6V73-4NCK265-4/2/e205951a328967f58b32cd553b215ce9.

Carballa M, and Omil FL, J.M. "Removal of pharmaceuticals and personal care products (PPCPS) from municipal wastewaters by physico-chemical processes," *Electron J Environ Agri Food Chem* **2003**, *2*(2).

Carballo M, Aguayo S, de la Torre A, and Munoz MJ. "Plasma vitellogenin levels and gonadal morphology of wild carp (Cyprinus carpio L.) in a receiving rivers downstream of Sewage Treatment Plants," *Sci Total Environ* **2005**, *341*(1-3):71-79. http://www.sciencedirect.com/science/article/B6V78-4DTSKH4-3/2/eef9353ee36a9d6771e657a2ca7c454c.

Cardenas ME, Sanfridson A, Cutler NS, and Heitman J. "Signal-transduction cascades as targets for therapeutic intervention by natural products," *Trends in Biotechnology* **1998**, *16*(10):427-433. http://www.ingentaconnect.com/content/els/01677799/1998/00000016/00000010/art01239 http://dx.doi.org/10.1016/S0167-7799(98)01239-6.

Cardoso A, Prigiobbe V, Giulianelli M, Baer E, De Benedittis J, and Coelho ST. "Assessing the impact of infiltration and exfiltration in sewer systems using performance indicators: case studies of the APUSS project," *Wat Practice Technol* **2006**, *1*(1):1-8. http://www.iwaponline.com/wpt/001/wpt0010019.htm.

Cardoza LA, Almeida VK, Carr A, Larive CK, and Graham DW. "Separations coupled with NMR detection," *TrAC Trends in Anal Chem* **2003**, *22*(10):766-775.

Cardoza LA, Knapp CW, Larive CK, Belden JB, Lydy M, and Graham DW. "Factors affecting the fate of ciprofloxacin in aquatic field systems," *Wat Air Soil Pollut* **2005**, *161*(1-4):383-398.

Cardoza LA, Williams TD, Drake B, and Larive CK. "LC/MS/MS and LC/NMR for the structure elucidation of ciprofloxacin transformation products in pond water solution," in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants* Almagor UM, Ed., American Chemical Society, 2003, Chapter 9, 146-160. http://www.powells.com/biblio?isbn=9780841238251.

Careri M, Elviri L, Mangia A, and Zagnoni I. "Liquid chromatography-electrospray ionization tandem mass spectrometry and liquid chromatography with fluorescence detection for determination of octylphenol and nonylphenol in municipal wastewater at trace levels," *Chromatographia* **2003**, *57*(5-6):321-327.

Cargouet M, Perdiz D, and Levi Y. "Evaluation of the estrogenic potential of river and treated waters in the Paris area (France) using in vivo and in vitro assays," *Ecotoxicol Environ Safety* **2007**, *67*(1):149-156. http://www.sciencedirect.com/science/article/B6WDM-4JT9CNX-1/2/4c201fad4add4a66c6e551abe75dc299.

Cargouet M, Perdiz D, Mouatassim-Souali A, Tamisier-Karolak S, and Levi Y. "Assessment of river contamination by estrogenic compounds in Paris area (France)," *Sci Total Environ* **2004**, *324*(1-3):55-66. http://www.sciencedirect.com/science/article/B6V78-4BDY6VD-5/2/e72ff0485ee1c6be2c2699998afed86a.

Carlesi Jara C, Fino D, Specchia V, Saracco G, and Spinelli P. "Electrochemical removal of antibiotics from wastewaters," *Appl Catalysis B: Environ* **2007**, *70*(1-4):479-487. http://www.sciencedirect.com/science/article/B6TF6-4K7WJ4J-3/2/b75e2690d18877b1d56d664f7b22a096.

Carlson JC, and Mabury SA. "Dissipation kinetics and mobility of chlortetracycline, tylosin, and monensin in an agricultural soil in Northumberland County, Ontario, Canada," *Environ Toxicol Chem* **2006**, *25*(1):1-10.

Carlsson C, Johansson A-K, Alvan G, Bergman K, and Kuhler T. "Are pharmaceuticals potent environmental pollutants?: Part I: Environmental risk assessments of selected active pharmaceutical ingredients," *Sci Total Environ* **2006**, *364*(1-3):67-87. http://www.sciencedirect.com/science/article/B6V78-4HDX6K6-1/2/fc221962b762a729092c6bcfbc687ca0. Carlsson C, Johansson A-K, Alvan G, Bergman K, and Kuhler T. "Are pharmaceuticals potent environmental pollutants?: Part II: Environmental risk assessments of selected pharmaceutical excipients," *Sci Total Environ* **2006**, *364*(1-3):88-95. http://www.sciencedirect.com/science/article/B6V78-4HG670N-1/2/066182a8153da176971692f1a384d053.

Carlsson G, and Norrgren L. "Synthetic musk toxicity to early life stages of zebrafish (Danio rerio)," *Arch Environ Contam Toxicol* **2004**, *46*(1):102-105.

Carlsson G, Orn S, Andersson PL, Soderstrom H, and Norrgren L. "The impact of musk ketone on reproduction in zebrafish (Danio rerio)," *Mar Environ Res* **2000**, *50*(1-5):237-241. http://www.sciencedirect.com/science/article/B6V7H-41MJ1C2-32/2/cc09a6f3fe84370cbfea82e4f0504a0f.

Carlucci G, D'Archivio AA, Maggi MA, Mazzeo P, and Ruggieri F. "Investigation of retention behaviour of non-steroidal anti-inflammatory drugs in high-performance liquid chromatography by using quantitative structure-retention relationships," *Anal Chim Acta* **2007**, *601*(1):68-76. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17904471.

Caro E, Marce RM, Cormack PAG, Sherrington DC, and Borrull F. "Selective enrichment of antiinflammatory drugs from river water samples by solid-phase extraction with a molecularly imprinted polymer," *J Separation Sci* **2005**, *28*(16):2080-2085.

Carpenter DO, Arcaro K, and Spink DC. "Understanding the Human Health Effects of Chemical Mixtures " *Environ Health Perspect* **2002**, *110*(S1):25-42. http://ehpnet1.niehs.nih.gov/docs/2002/suppl-1/25-42carpenter/abstract.html

Carpinteiro J, Quintana JB, Martinez E, Rodriguez I, Carro AM, Lorenzo RA, et al. "Application of strategic sample composition to the screening of anti-inflammatory drugs in water samples using solid-phase microextraction," *Anal Chimica Acta* **2004**, *524*(1-2):63-71. http://www.sciencedirect.com/science/article/B6TF4-4CBDD8M-4/2/4d326be5745b602e2070589cfce48a98.

Carpinteiro J, Quintana JB, Rodriguez I, Carro AM, Lorenzo RA, and Cela R. "Applicability of solidphase microextraction followed by on-fiber silylation for the determination of estrogens in water samples by gas chromatography-tandem mass spectrometry," *J Chromatogr A* **2004**, *1056*(1-2):179-185. http://www.sciencedirect.com/science/article/B6TG8-4CYR2PD-6/2/3e18d494385729736ada0005cea6a8f4.

Carrara C, Ptacek CJ, Robertson WD, Blowes DW, Moncur MC, Sverko E, et al. "Fate of Pharmaceutical and Trace Organic Compounds in Three Septic System Plumes, Ontario, Canada," *Environ Sci Technol* **2008**, *42*(8):2805-2811. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es070344q.

Carter BA, and Coppens RC. "EnvirR research project on drug waste in Alberts Summary report," Alberta Pharmaceutical Association, Edmonton, AB, July, 1996, pp.

Cartinella JL, Cath TY, Flynn MT, Miller GC, Hunter KW, and Childress AE. "Removal of Natural Steroid Hormones from Wastewater Using Membrane Contactor Processes," *Environ Sci Technol* **2006**, *40*(23):7381-7386. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060550i.

Carucci A, Cappai G, and Piredda M. "Biodegradability and toxicity of pharmaceuticals in biological wastewater treatment plants," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2006**, *41*(9):1831-1842.

Casciaro S, Errico RP, Conversano F, Demitri C, and Distante A. "Experimental investigations of nonlinearities and destruction mechanisms of an experimental phospholipid-based ultrasound contrast agent," *Invest Radiol* **2007**, *42*(2):95-104.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17220727.

Cascone A, Forni C, and Migliore L. "Flumequine uptake and the acquatic duckweed, Lemna minor L," *Wat Air Soil Pollut* **2004**, *156*(1):241-249.

Caselles C. "Les médicaments: contaminants émergents?," *Environment, Risques & Sante* **2006**, *5*(4) http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Casey FXM, Hakk H, Šimunek J, and Larsen GL. "Fate and transport of testosterone in agricultural soils," *Environ Sci Technol* **2004**, *38*(3):790-798. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i03/abs/es034822i.html.

Casey FXM, Larsen GL, Hakk H, and Šimunek J. "Fate and transport of 17ß-estradiol in soil - water systems," *Environ Sci Technol* **2003**, *37*(11):2400-2409. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2003/37/i11/html/es026153z.html.

Casey FXM, Simunek J, Lee J, Larsen GL, and Hakk H. "Sorption, mobility, and transformation of estrogenic hormones in natural soil," *J Environ Qual* **2005**, *34*(4):1372-1379.

Cashman AL, and Warshaw EM. "Parabens: A review of epidemiology, structure, allergenicity, and hormonal properties," *Dermatitis* **2005**, *16*(2):57-66.

Cassel S. "Pharmaceutical Project Summary and Prospectus," 2008:3. www.productstewardship.us.

Cassel S, and Pettersson K. "Läkemedelsindustrins producentansvar för förpackningar (The pharmaceutical industry's producer responsibility for packaging)," Kulturgeografiska institutionen, Uppsala University, Uppsala, 1995, pp.

Cassell S, and Fletcher S. "PSI National Dialogue on Pharmaceuticals - Region 3 PPCP Network Conference Call," Product Stewardship Institute, Inc., July 8 2008.

Castegnaro M, and Hansel S. "Antineoplastic drugs in sewage from hospitals and households," *Environment, Risques & Sante* **2006**, *5*(4):266-270. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/FC/resume.md?type=text.html.

Castensson S, and Gunnarsson B. "Drugs and the flow of the substances they contain," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish

Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 1, 7-19. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Castiglioni S, Bagnati R, Calamari D, Fanelli R, and Zuccato E. "A multiresidue analytical method using solid-phase extraction and high-pressure liquid chromatography tandem mass spectrometry to measure pharmaceuticals of different therapeutic classes in urban wastewaters," *J Chromatogr A* 2005, *1092*(2):206-215. http://www.sciencedirect.com/science/article/B6TG8-4GWC0XN-2/2/5d34772376ff7fcf87adc87a68ac8695.

Castiglioni S, Bagnati R, Fanelli R, Pomati F, Calamari D, and Zuccato E. "Removal of pharmaceuticals in sewage treatment plants in Italy," *Environ Sci Technol* **2006**, *40*(1):357-363. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i01/abs/es050991m.html.

Castiglioni S, Fanelli R, Calamari D, Bagnati R, and Zuccato E. "Methodological approaches for studying pharmaceuticals in the environment by comparing predicted and measured concentrations in River Po, Italy," *Reg Toxicol Pharmacol* **2004**, *39*(1):25-32. http://www.sciencedirect.com/science/article/B6WPT-4B7HJ1P-2/2/957d40f55e4394aa66c02cf425022ec8.

Castiglioni S, Pomati F, Miller K, Burns BP, Zuccato E, Calamari D, et al. "Novel homologs of the multiple resistance regulator marA in antibiotic-contaminated environments," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4T0MMF2-1/1/32ae772ca9aaa377647cd5a7a5d4fbf8.

Castiglioni S, Zuccato E, Chiabrando C, Fanelli R, and Bagnati R. "Mass spectrometric analysis of illicit drugs in wastewater and surface water," *Mass Spectrometry Rev* **2008**, *27*(4):378-394. http://dx.doi.org/10.1002/mas.20168.

Castiglioni S, Zuccato E, Crisci E, Chiabrando C, Fanelli R, and Bagnati R. "Identification and measurement of illicit drugs and their metabolites in urban wastewater by liquid chromatography - tandem mass spectrometry," *Anal Chem* **2006**, *78*(24):8421-8429.

Castro LFC, Melo C, Guillot R, Mendes I, Queiros S, Lima D, et al. "The estrogen receptor of the gastropod Nucella lapillus: Modulation following exposure to an estrogenic effluent?," *Aqua Toxicol* **2007**, *84*(4):465-468. http://www.sciencedirect.com/science/article/B6T4G-4P7X4MB-1/2/3e0f98edb00154b8be3bddce95595cca.

Cathum S, and Sabik H. "Determination of steroids and coprostanol in surface water, effluent and mussel using gas chromatography-mass spectrometry " *Chromatographia* **2001**, *53*(2,S):S394-S399.

Cavalieri EL, Stack DE, Devanesan PD, Todorovic R, Dwivedy I, Higginbotham S, et al. "Molecular origin of cancer: catechol estrogen-3,4-quinones as endogenous tumor initiators," *Proc Natl Acad Sci U S A* **1997**, *94*(20):10937-10942. http://www.ncbi.nlm.nih.gov/pubmed/9380738.

Cavas T, and Ergene-Gozukara S. "Genotoxicity evaluation of metronidazole using the piscine micronucleus test by acridine orange fluorescent staining," *Environ Toxicol Pharmacol* **2005**, *19*(1):107-111. http://www.sciencedirect.com/science/article/B6T6D-4CVVCBG-1/2/cca681492d79ccf9e1899474674b8e3f.

CDC. "National report on human exposure to environmental chemicals: spotlight on triclosan," Department of Health and Human Services, Centers for Disease Control and Prevention, 2007.

CDC Wonder. "Compressed Mortality File Underlying Cause-of-Death," March 12, 2008, 1 pp. http://wonder.cdc.gov/mortsql.html.

Ceballos BSO, Soares NE, Moraes MR, Catao RMR, and Konig A. "Microbiological aspects of an urban river used for unrestricted irrigation in the semi-arid region of north-east Brazil," *Wat Sci Technol* **2003**, *47*(3):51-57.

Cecinato A, and Balducci C. "Detection of cocaine in the airborne particles of the Italian cities Rome and Taranto," *J Sep Sci* **2007**, *30*(12):1930-1935. http://dx.doi.org/10.1002/jssc.200700039.

Cela R, Martinez JA, Gonzalez-Barreiro C, and Lores M. "Multi-objective optimisation using evolutionary algorithms: its application to HPLC separations," *Chemometrics and Intelligent Laboratory Systems* **2003**, *69*(1-2):137-156. http://www.sciencedirect.com/science/article/B6TFP-49JHKP7-1/2/352a0548a40fcecd81c012b347f34c1f.

Cerkvenik V, Doganoc DZ, Skubic V, Beek WMJ, and Keukens HJ. "Thermal and long-term freezing stability of ivermectin residues in sheep milk," *European Food Res Technol* **2001**, *213*:72-76.

Cermola F, DellaGreca M, Iesce MR, Montanaro S, Previtera L, Temussi F, et al. "Irradiation of fluvastatin in water: Structure elucidation of photoproducts," *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *189*(2-3):264-271. http://www.sciencedirect.com/science/article/B6TGY-4N3GFHV-2/1/298f498bba92afdb5546a0366d7eac52.

CESAR "Current Substance Abuse Legislation." Center for Substance Abuse Research 2008. http://www.cesar.umd.edu/cesar/library/statutes.asp.

Cha JM, Yang S, and Carlson KH. "Rapid analysis of trace levels of antibiotic polyether ionophores in surface water by solid-phase extraction and liquid chromatography with ion trap tandem mass spectrometric detection," *J Chromatogr A* **2005**, *1065*(2):187-198. http://www.sciencedirect.com/science/article/B6TG8-4FB3VNT-1/2/3b64284b9cd2bf4465e3c648dc906111.

Cha JM, Yang S, and Carlson KH. "Trace determination of [beta]-lactam antibiotics in surface water and urban wastewater using liquid chromatography combined with electrospray tandem mass spectrometry," *J Chromatogr A* **2006**, *1115*(1-2):46-57. http://www.sciencedirect.com/science/article/B6TG8-4JMM5RB-1/2/d234e468c5d9d36720943ce557819537.

Chambaz A, Meirim I, and Decombaz J. "Urinary caffeine after coffee consumption and heat dehydration," *Internat J Sports Med* **2001**, *22*(5):366-372. http://cat.inist.fr/?aModele=afficheN&cpsidt=1109037.

Chamberlain E, and Adams C. "Oxidation of sulfonamides, macrolides, and carbadox with free chlorine and monochloramine," *Wat Res* **2006**, *40*(13):2517-2526.

http://www.sciencedirect.com/science/article/B6V73-4KBWTP4-2/2/cb4239576d282a0b3aa479452dca2fae.

Chambliss CK, Ramirez AJ, Mottaleb MA, and Brooks BW. "Poster 82 Liquid chromatography tandem mass spectrometry screening analysis of select pharmaceuticals in aquatic organisms collected from an effluent-dominated stream," SETAC, Montreal, Cananda, 6 November, 2006.

Champ M, O'Connor T, and Park P. "Ocean Dumping of Municipal and Industrial Wastes in the United States: An Analysis of Environmental Effects," *Oceans* **1981**, *13*:720. http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1151507.

Chanda SK, and Caldwell JS. "Fulfilling the promise: drug discovery in the post-genomic era," *Drug Discovery Today* **2003**, *8*(4):168-174. http://www.sciencedirect.com/science/article/B6T64-47VRMJT-D/2/4a334af43073b851265297ea7b549d28.

Chander Y, Kumar K, Goyal SM, and Gupta SC. "Antibacterial activity of soil-bound antibiotics," *J Environ Qual* **2005**, *34*(6):1952-1957.

Chang H, Hu J, Asami M, and Kunikane S. "Simultaneous analysis of 16 sulfonamide and trimethoprim antibiotics in environmental waters by liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* **2008**, *1190*(1-2):390-393. http://www.sciencedirect.com/science/article/B6TG8-4S4JYRR-1/1/5ba02dc42220c56b77ee9679a49c8f45.

Chang H, Hu J, and Shao B. "Occurrence of Natural and Synthetic Glucocorticoids in Sewage Treatment Plants and Receiving River Waters," *Environ Sci Technol* **2007**, *41*(10):3462-3468. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0627460.

Chang S, Waite TD, Ong PEA, Schafer AI, and Fane AG. "Assessment of trace estrogenic contaminants removal by coagulant addition, powdered activated carbon adsorption and powdered activated carbon/microfiltration processes," *J Environ Eng-ASCE* **2004**, *130*(7):736-742.

Chang S, Waite TD, Schafer AI, and Fane AG. "Adsorption of the Endocrine-Active Compound Estrone on Microfiltration Hollow Fiber Membranes," *Environ Sci Technol* **2003**, *37*(14):3158-3163. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0261574.

Chang SJ, Jang NJ, Yeo YH, and Kim IS. "Fate and transport of endocrine-disrupting compounds (oestrone and 17 beta-oestradiol) in a membrane bio-reactor used for water re-use," *Wat Sci Technol* **2006**, *53*(9):123-130.

Chapin A, Rule A, Gibson K, Buckley T, and Schwab K. "Airborne multidrug-resistant bacteria isolated from a concentrated swine feeding operation," *Environ Health Perspect* **2005**, *113*(2):137-142. http://ehp.niehs.nih.gov/docs/2004/7473/abstract.html.

Chapman AI. "Pharmaceutical Reverse Distributor Survey, Final Report," SQG-PHARM-2(12/03), County LHWMPiK, Ed., Seattle, WA, December, 2003, 65 pp. www.govlink.org/hazwaste/publications/ReverseDistributorSurvey.pdf. Chapman H. "Removal of endocrine disruptors by tertiary treatments and constructed wetlands in subtropical Australia," *Wat Sci Technol* **2003**, *47*(9):151-156.

Chapman HF, Tan BLL, and Leusch FDL. "Endocrine disruptors in sewage effluent in South-East Queensland, Australia," in *Optimizing Contaminant Trackdown: Focusing on Wastewater Treatment Plants and Related Systems: a Compendium for Practitioners of Contaminant Trackdown Efforts*, New York Academy of Sciences; New York, NY, 2007, Chapter 9, 121-151. December. http://www.nyas.org/programs/harbor/contaminant_0208.pdf#page=121.

Chapman PM. "Whole effluent toxicity testing-usefulness, level of protection, and risk assessment," *Environ Toxicol Chem* **2000**, *19*(1):3-13. http://dx.doi.org/10.1897%2F1551-5028%282000%29019%3C0003%3AWETTUL%3E2.3.CO%3B2.

Chapman PM. "Emerging substances - Emerging problems?," *Environ Toxicol Chem* **2006**, *25*(6):1445-1447.

Chapman PM, Caldwell RS, and Chapman PF. "A warning: NOECs are inappropriate for regulatory use," *Environ Toxicol Chem* **1996**, *15*(2):77-79. http://dx.doi.org/10.1897%2F1551-5028%281996%29015%3C0077%3AAWNAIF%3E2.3.CO%3B2.

Chatzitakis A, Berberidou C, Paspaltsis I, Kyriakou G, Sklaviadis T, and Poulios I. "Photocatalytic degradation and drug activity reduction of Chloramphenicol," *Wat Res* **2008**, *42*(1-2):386-394. http://www.sciencedirect.com/science/article/B6V73-4P940JS-6/1/02ccb8099055207180c336440c39e8df.

Chee-Sanford JC, Aminov RI, Krapac IJ, Garrigues-Jeanjean N, and Mackie RI. "Occurrence and Diversity of Tetracycline Resistance Genes in Lagoons and Groundwater Underlying Two Swine Production Facilities," *Appl Environ Microbiol* **2001**, *67*(4):1494-1502. http://aem.asm.org/cgi/content/abstract/67/4/1494.

Chefetz B, Mualem T, and Ben-Ari J. "Sorption and mobility of pharmaceutical compounds in soil irrigated with reclaimed wastewater," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T6KF8S-1/2/9ec01fe6c7b27af072d242f09dd649e2.

Chelliapan S, Wilby T, and Sallis PJ. "Performance of an up-flow anaerobic stage reactor (UASR) in the treatment of pharmaceutical wastewater containing macrolide antibiotics "*Wat Res* **2006**, *40*(3): 507-516.

ChemExper "ChemExper Chemical Directory." 2008. http://www.chemexper.com/.

Chen C-Y, Wen T-Y, Wang G-S, Cheng H-W, Lin Y-H, and Lien G-W. "Determining estrogenic steroids in Taipei waters and removal in drinking water treatment using high-flow solid-phase extraction and liquid chromatography/tandem mass spectrometry," *Sci Total Environ* **2007**, *378*(3):352-365. http://www.sciencedirect.com/science/article/B6V78-4NFXG76-1/2/63301243970ecd4508336e32035a4ceb.

Chen D, Zeng X, Sheng Y, Bi X, Gui H, Sheng G, et al. "The concentrations and distribution of polycyclic musks in a typical cosmetic plant," *Chemosphere* **2007**, *66*(2):252-258.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16814843.

Chen H, Talaty NN, Takats Z, and Cooks RG. "Desorption Electrospray Ionization Mass Spectrometry for High-Throughput Analysis of Pharmaceutical Samples in the Ambient Environment," *Anal Chem* **2005**, 77(21):6915-6927. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac050989d.

Chen H-C. "Liquid chromatography-tandem mass spectrometry in trace analysis of selected emerging contaminants -Method development and applications," Doctoral Dissertation, 2008. 143 pp. http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view etd?URN=92243007.

Chen H-C, Wang P-L, and Ding W-H. "Using liquid chromatography-ion trap mass spectrometry to determine pharmaceutical residues in Taiwanese rivers and wastewaters," *Chemosphere* **2008**, 72(6):863-869. http://www.sciencedirect.com/science/article/B6V74-4SJR29M-9/1/3438cf38b019456a55581674aa7c9038.

Chen H-C, Wang S-P, and Ding W-H. "Determination of fluorescent whitening agents in environmental waters by solid-phase extraction and ion pair liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2006**, *1102*(1-2):135-142. http://www.sciencedirect.com/science/article/B6TG8-4HHH5X4-7/2/e35fb8cf49ef0629cfdc91021bcefdae.

Chen J, Ahn KC, Gee NA, Gee SJ, Hammock BD, and Lasley BL. "Antiandrogenic properties of parabens and other phenolic containing small molecules in personal care products," *Toxicol Appl Pharmacol* **2007**, *221*(3):278-284. http://www.sciencedirect.com/science/article/B6WXH-4NC38NH-1/2/e84dc4c9b384040e6945b007ef72ffe0.

Chen J, Ahn KC, Gee NA, Mohamed MI, Duleba AJ, Zhao L, et al. "Triclocarban enhances testosterone action: A new type of endocrine disruptor?," *Endocrinology* **2007**, *In Press*:24 pp. http://endo.endojournals.org/cgi/content/abstract/en.2007-1057v1.

Chen J, Lichwa J, Snehota M, Mohanty S, and Ray C. "Determination of hormones and non-ionic surfactant degradation products in small-volume aqueous samples from soil columns using LC-ESI-MS-MS and GC-MS," *Chromatographia* **2006**, *64*(7-8):413-418.

Chen M, Ohman K, Metcalfe C, Ikonomou MG, Amatya PL, and Wilson J. "Pharmaceuticals and endocrine disruptors in wastewater treatment effluents and in the water supply system of Calgary, Alberta, Canada," *Wat Qual Res J Canada* **2006**, *41*(4):351-364.

Chen Y, Hu C, Qu JH, and Yang M. "Photodegradation of tetracycline and formation of reactive oxygen species in aqueous tetracycline solution under simulated sunlight irradiation," *J Photochem Photobiol A: Chem* **2008**, *197*(1):81-87.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGY-4RDR1CK-3&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=ae88ae8cf47be96c0c0698bd81584397.

Chen Z, Pavelic P, Dillon P, and Naidu R. "Determination of caffeine as a tracer of sewage effluent in natural waters by on-line solid-phase extraction and liquid chromatography with diode-array

detection," *Wat Res* **2002**, *36*(19):4830-4838. http://www.sciencedirect.com/science/article/B6V73-461XFD8-5/2/4bb99d8f42809c210edc664a29dfd460.

Chen Z, Ren N, Wang A, Zhang Z-P, and Shi Y. "A novel application of TPAD-MBR system to the pilot treatment of chemical synthesis-based pharmaceutical wastewater," *Wat Res* **2008**, *42*(13):3385-3392. http://www.sciencedirect.com/science/article/B6V73-4SDX2P1-3/1/2727e4849ab8fb902d49a86e279dfb74.

Chenxi W, Spongberg AL, and Witter JD. "Determination of the persistence of pharmaceuticals in biosolids using liquid-chromatography tandem mass spectrometry," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T3TPSY-2/1/0191f9ec6e6b5740e334c8a3c5982056.

Cherlet M, Croubels S, and De Backer P. "Quantitative determination of chlortetracycline content in animal plasma at controlled keto-enol tautomerism by liquid chromatography-electrospray ionization-tandem mass spectrometry," *J Chromatogr A* **2006**, *1102*(1-2):116-124. http://www.sciencedirect.com/science/article/B6TG8-4HD8BBG-8/2/199d11a996b32469a97af692e4ecd746.

Cherlet M, De Backer P, and Croubels S. "Control of the keto-enol tautomerism of chlortetracycline for its straightforward quantitation in pig tissues by liquid chromatography-electrospray ionization tandem mass spectrometry," *J Chromatogr A* **2006**, *1133*(1-2):135-141. http://www.sciencedirect.com/science/article/B6TG8-4KSD5DS-2/2/21578d5af62f360f6c49a8b85113426f.

Chèvre N, Maillard E, Loepfe C, and Becker-van Slooten K. "Determination of water quality standards for chemical mixtures: Extension of a methodology developed for herbicides to a group of insecticides and a group of pharmaceuticals," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4S6GRRF-1/1/44cf58d2c624ac17dfa2324e521b803a.

Childers SR. "Pharmacology: How Cannabis Acts," *Science* **2000**, *288*(5473):1972. http://www.sciencemag.org/cgi/content/full/288/5473/1972?ck=nck.

Chimchirian RF, Suri RPS, and Fu H. "Free synthetic and natural estrogen hormones in influent and effluent of three municipal wastewater treatment plants," *Wat Environ Res* **2007**, *79*(9):969-974. http://www.ingentaconnect.com/wef/wer/2007/00000079/00000009/art00006

Chiron S, Minero C, and Vione D. "Photodegradation processes of the Antiepileptic drug carbamazepine, relevant to estuarine waters," *Environ Sci Technol* **2006**, *40*(19):5977-5983. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i19/abs/es060502y.html.

Chittiteeranon P, Soontaros S, and Pongsawasdi P. "Preparation and characterization of inclusion complexes containing fixolide, a synthetic musk fragrance and cyclodextrins," *J Inclusion Phenomena and Macrocyclic Chem* **2007**, *57*(1-4 April):69-73.

Chiu L, Cunningham L, Raible D, Rubel E, and Ou H. "Using the Zebrafish Lateral Line to Screen for Ototoxicity," *JARO - J Assoc for Res Otolaryngol* **2008**, *9*(2):178-190. http://dx.doi.org/10.1007/s10162-008-0118-y. Cho AK. "Ice: A new dosage form of an old drug," Science 1990, 249(4969):631-634.

Cho E-a. "Bioturbation as a Novel Method to Characterize the Toxicity of Aquatic Sediment," Doctoral Dissertation, North Carolina State University, Dept Environ and Molecular Toxicology, Raleigh, NC, 2005. 153 pp. http://www.lib.ncsu.edu/theses/available/etd-02282005-111535/unrestricted/etd.pdf.

Choi J-H, Fukushi K, and Yamamoto K. "A submerged nanofiltration membrane bioreactor for domestic wastewater treatment: the performance of cellulose acetate nanofiltration membranes for long-term operation," *Sep Purification Technol* **2007**, *52*(3):470-477. http://www.sciencedirect.com/science/article/B6THJ-4KBVX3Y-1/2/a82ad14d0580a49c0b99b1e8fa885dec.

Choi K, Kim Y, Park J, Park CK, Kim M, Kim HS, et al. "Seasonal variations of several pharmaceutical residues in surface water and sewage treatment plants of Han River, Korea," *Science of The Total Environment* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4T53HH0-2/2/81c893d3af9fce9c2055eee30543f16c.

Choi KJ, Kim SG, and Kim SH. "Removal of tetracycline and sulfonamide classes of antibiotic compound by powdered activated carbon," *Environ Technol* **2008**, *29*(3):333 - 342. http://www.informaworld.com/10.1080/09593330802102223.

Choi K-J, Kim S-G, Kim C-W, and Kim S-H. "Determination of antibiotic compounds in water by online SPE-LC/MSD," *Chemosphere* **2007**, *66*(6):977-984. http://www.sciencedirect.com/science/article/B6V74-4PNJ1KP-2/2/e35e66a1d18798a5b4ac795a4170ada4.

Choi K-J, Kim S-G, and Kim S-H. "Removal of antibiotics by coagulation and granular activated carbon filtration," *J Haz Mat* **2008**, *151*(1):38-43. http://www.sciencedirect.com/science/article/B6TGF-4NTRT7C-1/1/cf9194f51ebb457189d858569cb6885a.

Choi K-J, Son H-J, and Kim S-H. "Ionic treatment for removal of sulfonamide and tetracycline classes of antibiotic," *Sci Total Environ* **2007**, *387*(1-3):247-256. http://www.sciencedirect.com/science/article/B6V78-4PJD9K2-3/2/2088af76aae99a6b98dad1c287b23cbb.

Choong AMF, Teo SLM, Leow JL, Koh HL, and Ho PCL. "A preliminary ecotoxicity study of pharmaceuticals in the marine environment," *J Toxicol Environ Health - Part A - Current Issues* **2006**, *69*(21):1959-1970.

Chou Y-J, and Dietrich DR. "Interactions of nitromusk parent compounds and their amino-metabolites with the estrogen receptors of rainbow trout (Oncorhynchus mykiss) and the South African clawed frog (Xenopus laevis)," *Toxicol Lett* **1999**, *111*(1-2):27-36. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-4/2/168616d912cde23ba99a5b9394adf7b2. Chou Y-J, and Dietrich DR. "Toxicity of nitromusks in early lifestages of South African clawed frog (Xenopus laevis) and zebrafish (Danio rerio)," Toxicol Lett 1999, 111(1-2):17-25. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-3/2/4968b9f566714dac2dd9556616649b84.

Chow K-C. "Hsp70 (DnaK) - an evolution facilitator?," Trends Genetics 2000, 16(11):484-485. http://www.sciencedirect.com/science/article/B6TCY-41WT6H3-4/1/d3589b7f0f1beb00dfb54efac652bafd.

Christensen AM, Faaborg-Andersen S, Ingerslev F, and Baun A. "Mixture and single-substance toxicity of selective serotonin reuptake inhibitors toward algae and crustaceans," Environ Toxicol Chem 2007, 26(1):85-91. http://www.setacjournals.org/perlserv/?request=getabstract&doi=10.1897%2F06-219R.1.

Christensen AM, Ingerslev F, and Baun A. "Ecotoxicity of mixtures of antibiotics used in aquacultures," *Environ Toxicol Chem* **2006**, *25*(8):2208-2215. <Go to ISI>://CCC:000240505000028.

Christensen D. "Keeping bugs from pumping drugs - A new way to defeat antibiotic-resistant microbes?," Sci News 2000, 157(February):110-111. http://se02.xif.com/articles/20000212/bob15ref.asp http://findarticles.com/p/articles/mi_m1200/is_7_157/ai_59624232/pg_2?tag=artBody;col1.

Christensen D. "Medicinal mimicry: Sometimes, placebos work but how?," Sci News 2001, 1597(February):74-78.

Christensen FM. "Pharmaceuticals in the Environment--A Human Risk?," Regulatory Toxicol Pharmacol 1998, 28(3):212-221. http://www.sciencedirect.com/science/article/B6WPT-45M31RB-4/1/85b16fb50d8aa30f515884dd8c42a68c.

Christenson T. "Fish on morphine: protecting wisconsin's natural resources through a comprehensive plan for proper disposal of pharmaceuticals," May, 2007, 56 pp. http://www.wislawyer.org/AM/TemplateRedirect.cfm?template=/CM/ContentDisplay.cfm&ContentID=64971.

Christian MS, Parker RM, Hoberman AM, Diener RM, and Api AM. "Developmental toxicity studies of four fragrances in rats," Toxicol Lett 1999, 111(1-2):169-174. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =10630712.

Christian MS, Parker RM, Hoberman AM, Diener RM, and Api AM. "Erratum to "Developmental toxicity studies of four fragrances in rats"," Toxicol Lett 2000, 118(1-2):117. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list uids =11137317.

Christian S. "The chemistry of beauty - What's in all those beauty products? The truth isn't pretty," Sacramento News & Review, August 14 2008

12http://www.newsreview.com/sacramento/Content?oid=721266.

Christian T, Schneider RJ, Farber HA, Skutlarek D, Meyer MT, and Goldbach HE. "Determination of antibiotic residues in manure, soil, and surface waters," *Acta Hydrochim Hydrobiol* **2003**, *31*(1):36-44. http://cat.inist.fr/?aModele=afficheN&cpsidt=14955769.

Chu S, and Metcalfe CD. "Analysis of paroxetine, fluoxetine and norfluoxetine in fish tissues using pressurized liquid extraction, mixed mode solid phase extraction cleanup and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2007**, *1163*(1-2):112-118. http://www.sciencedirect.com/science/article/B6TG8-4NYJ0V2-4/2/06cfc72c3749b0fed2b48782866a0ce9.

Chu S, and Metcalfe CD. "Simultaneous determination of triclocarban and triclosan in municipal biosolids by liquid chromatography tandem mass spectrometry," *J Chromatogr A* **2007**, *1164*(1-2):212-218. http://www.sciencedirect.com/science/article/B6TG8-4P7R88H-B/2/a846a741fcd34c74ca56e5676f972093.

Chuanlai X, Peng CF, Hao K, Jin ZY, and Wang WK. "Chemiluminescence enzyme immunoassay (CLEIA) for the determination of chloramphenicol residues in aquatic tissues," *LUMINESCENCE* **2006**, *21*(2):126-128.

Chun S, Lee J, Geyer R, and White DC. "Comparison of three extraction methods for 17 beta-estradiol in sand, bentonite, and organic-rich silt loam," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2005**, *40*(5):731-740.

Chun S, Lee J, Geyer R, White DC, and Raman DR. "Effect of agricultural antibiotics on the persistence and transformation of 17 beta-estradiol in a Sequatchie loam," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2005**, *40*:741-751.

Chun S, Lee J, Radosevich M, White DC, and Geyer RI. "Influence of agricultural antibiotics and 17 beta-estradiol on the microbial community of soil," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2006**, *41*(6):923-935.

Chung H-H, Lee J-B, Chung Y-H, and Lee K-G. "Analysis of sulfonamide and quinolone antibiotic residues in Korean milk using microbial assays and high performance liquid chromatography," *Food Chemistry* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T6R-4T0WK0W-4/1/54d612be27f3ae998f2145020912ab29.

Cimenti M, Hubberstey A, Bewtra JK, and Biswas N. "Alternative methods in tracking sources of microbial contamination in waters," *Wat SA* **2007**, *33*(2):183-194.

Ciniglia C, Cascone C, Giudice RL, Pinto G, and Pollio A. "Application of methods for assessing the geno- and cytotoxicity of Triclosan to C. ehrenbergii," *J Hazardous Mat* **2005**, *122*(3):227-232. http://www.sciencedirect.com/science/article/B6TGF-4FT6HKV-1/2/acfe1be217dcbf8fb73b52d9fd04943e.

Cinquina A, Longo F, Anastasi G, Gianetti L, and Cozzani R. "Validation of a high-performance liquid chromatography method for the determination of oxytetracycline, tetracycline, chlortetracycline and doxycycline in bovine milk and muscle," *J Chromatogr A* **2001**, *987*(1-2):518-524. http://cat.inist.fr/?aModele=afficheN&cpsidt=14487066. Cirja M, Ivashechkin P, Schäffer A, and Corvini P. "Factors affecting the removal of organic micropollutants from wastewater in conventional treatment plants (CTP) and membrane bioreactors (MBR)," *Rev Environ Sci Biotechnol* **2008**, 7(1):61-78. http://dx.doi.org/10.1007/s11157-007-9121-8.

Cirja M, Zuehlke S, Ivashechkin P, Hollender J, Schaffer A, and Corvini PFX. "Behavior of two differently radiolabelled 17[alpha]-ethinylestradiols continuously applied to a laboratory-scale membrane bioreactor with adapted industrial activated sludge," *Wat Res* **2007**, *41*(19):4403-4412. http://www.sciencedirect.com/science/article/B6V73-4P0080S-C/2/ab5534de085be9365b2f4fa1a4d9033a.

CIWMB "Household Hazardous Waste: Pharmaceutical Drug Waste," California Integrated Waste Management Board (CIWMB) http://www.ciwmb.ca.gov/HHW/PharmWaste/.

Claffey DJ, and Ruth JA. "Amphetamine Adducts of Melanin Intermediates Demonstrated by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry," *Chem Res Toxicol* **2001**, *14*(9):1339-1344. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/tx0155303.

Clara M, Kreuzinger N, Strenn B, Gans O, and Kroiss H. "The solids retention time--a suitable design parameter to evaluate the capacity of wastewater treatment plants to remove micropollutants," *Wat Res* **2005**, *39*(1):97-106. http://www.sciencedirect.com/science/article/B6V73-4DK65JN-1/2/e78aaa30c863b2b09f032144db3aea94.

Clara M, Strenn B, Ausserleitner M, and Kreuzinger N. "Comparison of the behaviour of selected micropollutants in a membrane bioreactor and a conventional wastewater treatment plant," *Wat Sci Technol* **2004**, *50*(5):29-36.

Clara M, Strenn B, Gans O, Martinez E, Kreuzinger N, and Kroiss H. "Removal of selected pharmaceuticals, fragrances and endocrine disrupting compounds in a membrane bioreactor and conventional wastewater treatment plants," *Wat Res* **2005**, *39*(19):4797-4807. http://www.sciencedirect.com/science/article/B6V73-4HC6KNT-4/2/d2c3bf5c43ae1c258c00533bb718ed5b.

Clara M, Strenn B, and Kreuzinger N. "Carbamazepine as a possible anthropogenic marker in the aquatic environment: investigations on the behaviour of Carbamazepine in wastewater treatment and during groundwater infiltration," *Wat Res* **2004**, *38*(4):947-954. http://www.sciencedirect.com/science/article/B6V73-4BC2JXK-1/2/50be767c7a8c7e7a6717413d69917185.

Clara M, Strenn B, Saracevic E, and Kreuzinger N. "Adsorption of bisphenol-A, 17ß-estradiole and 17a-ethinylestradiole to sewage sludge," *Chemosphere* **2004**, *56*(9):843-851.

Clark J, Summerton L, Smith E, Kampa E, Vidaurre R, and Touraud E. "Discussion Document on Eco-pharmacostewardship," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2007, 59 pp. http://www.knappe-eu.org/fichiers/47-D5.1%20Ecopharmacostewardship%20disc%20doc.pdf.

Clark JH, and Smith P. "Basic Principles of Green Chemistry," *Innovations Pharm Technol* 2005, *May*:94-97.

Clarke MJ, Peart J, Cagnani S, and Byron PR. "Adhesion of powders for inhalation: An evaluation of drug detachment from surfaces following deposition from aerosol streams " *Pharm Res* **2002**, *19*(3):322-329.

Clay SA, Liu Z, Thaler R, and Kennouche H. "Tylosin sorption to silty clay loam soils, swine manure, and sand," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2005**, *40*(6):841-850.

Clayton J. "Caste system of crayfish, courtesy of serotonin," BioMedNet, 1999.

Cleeve M, Williams L, Lodder H, and Smith J. "Extraction of pharmaceuticals from environmental water samples," *LC GC Europe* **2007**, *S* (March):9. http://www.lcgceurope.com/lcgceurope/Pharmaceutical/Extraction-of-Pharmaceuticals-from-Environmental-W/ArticleStandard/Article/detail/409914.

Clement RE, Yang PW, and Koester CJ. "Environmental analysis," *Anal Chem* **2001**, *73*(12):2761-2790.

Cleuvers M. "Aquatic ecotoxicity of pharmaceuticals including the assessment of combination effects," *Toxicol Lett* **2003**, *142*(3):185-194. http://www.sciencedirect.com/science/article/B6TCR-4808N57-4/2/ac47d8cf47f1b6df0138ab8f6b48a484.

Cleuvers M. "Mixture toxicity of the anti-inflammatory drugs diclofenac, ibuprofen, naproxen, and acetylsalicylic acid," *Ecotoxicol Environ Safety* **2004**, *59*(3):309-315. http://www.sciencedirect.com/science/article/B6WDM-49XPH54-2/2/d38a307d186c90b83be8216699bb4406.

Cleuvers M. "Initial risk assessment for three [beta]-blockers found in the aquatic environment," *Chemosphere* **2005**, *59*(2):199-205. http://www.sciencedirect.com/science/article/B6V74-4F9F848-5/2/c202d3db01c9dc58ebd29a848c2261d5.

Clotfelter ED, Bell AM, and Levering KR. "The role of animal behaviour in the study of endocrinedisrupting chemicals," *Animal Behaviour* **2004**, *68*(4):665-676. http://www.sciencedirect.com/science/article/B6W9W-4D589X3-1/2/bd1be14165280465830c2e2205b01702.

Clotfelter ED, O'Hare EP, McNitt MM, Carpenter RE, and Summers CH. "Serotonin decreases aggression via 5-HT1A receptors in the fighting fish Betta splendens," *Pharmacol Biochem Behavior* **2007**, *87*(2):222-231. http://www.sciencedirect.com/science/article/B6T0N-4NMC865-1/1/35814c0563a6376582c0ef912b16bb92.

Clotfelter ED, and Rodriguez AC. "Behavioral changes in fish exposed to phytoestrogens," *Environ Pollut* **2006**, *144*(3):833-839. http://www.sciencedirect.com/science/article/B6VB5-4JP9G2R-3/2/018109dde1140a3146a2b4d9d2322bb2.

Clubbs RL, and Brooks BW. "Daphnia magna responses to a vertebrate estrogen receptor agonist and an antagonist: A multigenerational study," *Ecotoxicol Environ Safety* **2007**, *67*(3):385-398. http://www.sciencedirect.com/science/article/B6WDM-4NBY8R3-1/2/faf0ae6c8e460fbcc3daab6a1928b343. Coats JR, Metcalf RL, Lu PY, Brown DD, Williams JF, and Hansen LG. "Model ecosystem evaluation of the environmental impacts of the veterinary drugs phenothiazine, sulfamethazine, clopidol, and diethylstilbestrol," *Environ Health Perspect* **1976**, *18*:167-179. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1475296.

Cocero MJ, Sanz MT, and Fernández-Polanco F. "Study of alternatives for the design of a mobile unit for wastewater treatment by supercritical water oxidation," *J Chem Technol Biotechnol* **2001**, *76*(3):257-264. http://dx.doi.org/10.1002/jctb.372.

Coe TS, Hamilton PB, Hodgson D, Paull GC, Stevens JR, Sumner K, et al. "An Environmental Estrogen Alters Reproductive Hierarchies, Disrupting Sexual Selection in Group-Spawning Fish," *Environ Sci Technol* **2008**, *42*(13):5020-5025. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es800277q.

Coelhan M, Bromig KH, Glas K, and Roberts AL. "Determination and Levels of the Biocide ortho-Phenylphenol in Canned Beers from Different Countries," *J Agric Food Chem* **2006**, *54*(16):5731-5735. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jf060743p.

Coetsier C, Lin LM, Roig B, and Touraud E. "Integrated approach to the problem of pharmaceutical products in the environment: an overview," *Anal Bioanal Chem* **2007**, *387*(4):1163-1166.

Cohen E. "Drugs found in tap water," Video (4':22"), 2008. http://www.cnn.com/2008/HEALTH/03/10/pharma.water1.ap/#cnnSTCVideo.

Cokgor EU, Alaton IA, Karahan O, Dogruel S, and Orhon D. "Biological treatability of raw and ozonated penicillin formulation effluent," *J Hazardous Mat* **2004**, *116*(1-2):159-166. http://www.sciencedirect.com/science/article/B6TGF-4DTKDJK-2/2/232e753b31dcb3f2a882c23fbd42c130.

Cokgor EU, Arslan-Alaton I, Karahan O, Dogruel S, and Orhon D. "Biodegradability improvement of penicillin formulation effluent by ozonation," *Fres Environ Bull* **2004**, *13*(10, SI):1053-1056.

Cokgor EU, Karahan O, Arslan-Alaton I, Meric S, Saruhan H, and Orhon D. "Effect of perozonation on biodegradability and toxicity of a penicillin formulation effluent," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2006**, *41*(9):1887-1897.

Cokgor EU, Karahan O, Arslan-Alaton I, Saruhan H, and Orhon D. "Biological treatability of raw and ozonated synthetic penicillin formulation effluent," *Wat Sci Technol* **2005**, *52*(10-11):89-96.

Colburn T, Dumanoski D, and Myers JP. "Our Stolen Future: Are we threatening our fertility, intelligence, and survival? A scientific detective story." New York, NY, Penguin Books, 1996, 320 pp. http://www.sciencedirect.com/science/article/B6TBK-3RYCKRT-J/2/2b29c33db05f53be6b20fb510f5a2b83.

Cole EC, Addison RM, Rubino JR, Leese KE, Dulaney PD, Newell MS, et al. "Investigation of antibiotic and antibacterial agent cross-resistance in target bacteria from homes of antibacterial product users and nonusers," *J Appl Microbiol* **2003**, *95*(4):664-676. http://dx.doi.org/10.1046/j.1365-2672.2003.02022.x.

Coleman HM, Abdullah MI, Eggins BR, and Palmer FL. "Photocatalytic degradation of 17 betaoestradiol, oestriol and 17 alpha-ethynyloestradiol in water monitored using fluorescence spectroscopy," *Appl Catalysis B: Environ* **2005**, *55*(1):23-30.

Coleman HM, Routledge EJ, Sumpter JP, Eggins BR, and Byrne JA. "Rapid loss of estrogenicity of steroid estrogens by UVA photolysis and photocatalysis over an immobilised titanium dioxide catalyst," *Wat Res* **2004**, *38*(14-15):3233-3240. http://www.sciencedirect.com/science/article/B6V73-4CP10WJ-D/2/d6828e70d19c656a56bd5adc12392c9c.

Collier AC. "Pharmaceutical Contaminants in Potable Water: Concerns for Pregnant Women and Children," *EcoHealth J* 2007, 4(2):164-171. http://www.springerlink.com/content/j278811631042214/.

Collins G, McHugh S, Connaughton S, Enright AM, Kearney A, Scully C, et al. "New low-temperature applications of anaerobic wastewater treatment," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2006**, *41*(5):881-895.

Collins T. "Toward sustainable chemistry," *Science* **2001**, *291*(5501):48-49. http://www.sciencemag.org/cgi/content/full/291/5501/48.

Colucci MS, Bork H, and Topp E. "Persistence of estrogenic hormones in agricultural soils: I. 17 betaestradiol and estrone," *J Environ Qual* **2001**, *30*(6):2070-2076.

Colucci MS, and Topp E. "Persistence of estrogenic hormones in agricultural soils: II. 17 alphaethynylestradiol," *J Environ Qual* **2001**, *30*(6):2077-2080.

Colucci MS, and Topp E. "Dissipation of part-per-trillion concentrations of estrogenic hormones from agricultural soils," *Canadian J Soil Sci* **2002**, *82*(3):335-340.

Coma A, Modamio P, Lastra CF, Bouvy ML, and Marino EL. "Returned medicines in community pharmacies of Barcelona, Spain " *Pharm World Sci* **2007**, *30*:272-277. http://www.springerlink.com/content/74m2t81567682676/fulltext.pdf.

Comeau F, Surette C, Brun GL, and Losier R. "The occurrence of acidic drugs and caffeine in sewage effluents and receiving waters from three coastal watersheds in Atlantic Canada," *Sci Total Environ* **2008**, *396*(2-3):132-146. http://www.sciencedirect.com/science/article/B6V78-4S69S31-5/1/67db1bdffd39a9649d31bef6c953c494.

Comerton AM, Andrews RC, Bagley DM, and Hao C. "The rejection of endocrine disrupting and pharmaceutically active compounds by NF and RO membranes as a function of compound and water matrix properties," *Journal of Membrane Science* **2008**, *313*(1-2):323-335. http://www.sciencedirect.com/science/article/B6TGK-4RMFNY6-7/1/b26fdabe247f2d4a6a9bc2123a0c5a84.

Committee for Medicinal Products for Human Use CHMP. "Guideline on the environmental risk assessment of medicinal products for human use," European Medicines Agency, London, 01 June, 2006, 12 pp.

Committee for Medicinal Products for Veterinary Use CVMP. "Guideline on environmental impact assessment for veterinary medicinal products – in support of the VICH guidelines GL6 and GL38," European Medicines Agency, London, 18 January, 2006, 59 pp.

Committee on Risk Assessment of Hazardous Air Pollutants, Commission on Life Sciences, and National Research Council. "Science and Judgment in Risk Assessment." Washington, DC, National Academy Press, 1994, 672 pp. http://books.nap.edu/catalog/2125.html.

Committee on Sustainable Underground Storage of Recoverable Water, and Council NR. "Prospects for Managed Underground Storage of Recoverable Water." Washington, D.C., The National Academies Press, 2008, 350 pp. http://www.nap.edu/catalog.php?record_id=12057.

Committee on Toxicity Testing and Assessment of Environmental Agents, and National Research Council. "Toxicity Testing in the 21st Century: A Vision and a Strategy," National Academy of Sciences, 2008, pp. http://books.nap.edu/catalog.php?record_id=11970.

Comoretto L, and Chiron S. "Comparing pharmaceutical and pesticide loads into a small Mediterranean river," *Sci Total Environ* **2005**, *349*(1-3):201-210. http://www.sciencedirect.com/science/article/B6V78-4FK42GS-1/2/2a829bf5f313431e0ff49cf9e415e750.

Cone M. "One big drug test: Analyzing a city's sewage can put a number on its vices," Los Angeles Times, June 23 2008 2http://www.latimes.com/news/local/la-me-sewer23-2008jun23,0,1999511,full.story.

Cone T. "Sunscreen saves fruits, vegetables from burning," Associated Press, 2008 http://www.forbes.com/feeds/ap/2008/07/28/ap5262686.html.

Conley JM, Symes SJ, Kindelberger SA, and Richards SM. "Rapid liquid chromatography-tandem mass spectrometry method for the determination of a broad mixture of pharmaceuticals in surface water," *J Chromatogr A* **2008**, *1185*(2):206-215. http://www.ncbi.nlm.nih.gov/pubmed/18304564.

Conn KE, Barber LB, Brown GK, and Siegrist RL. "Occurrence and fate of organic contaminants during onsite wastewater treatment," *Environ Sci Technol* **2006**, *40*(23):7358-7366. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i23/abs/es0605117.html.

Conolly RB, Beck BD, and Goodman JI. "Stimulating research to improve the scientific basis of risk assessment," *Toxicol Sci* **1999**, *49*(1):1-4.

Conrow J. "Down the drain: medicines and other chemicals are creating new headaches," *Sierra* **2002**, *November/December*:28-30. http://goliath.ecnext.com/coms2/gi_0199-2190003/Down-the-drain-medicines-and.html.

Conroy O, Quanrud DM, Ela WP, Wicke D, Lansey KE, and Arnold RG. "Fate of wastewater effluent hER-agonists and hER-antagonists during soil aquifer treatment," *Environ Sci Technol* **2005**, *39*(7):2287-2293. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i07/abs/es049490b.html.

Conroy O, Saez AE, Quanrud D, Ela W, and Arnold RG. "Changes in estrogen/anti-estrogen activities in ponded secondary effluent," *Sci Total Environ* **2007**, *382*(2-3):311-323.

http://www.sciencedirect.com/science/article/B6V78-4NVSWRX-2/2/d56b55cc50bed3b0928f882a3d5b8337.

Constable DJC, Dunn PJ, Hayler JD, Humphrey GR, Leazer JLJ, Linderman RJ, et al. "Key Green Chemistry research areas – a perspective from pharmaceutical manufacturers," *Green Chem* **2007**, *9*:411-420. http://www.rsc.org/publishing/journals/GC/article.asp?doi=b703488c.

Constan A. "Pharmaceuticals in the environment - Changing public perception and regulatory guidance," 2008.

Consumers Union of the United States Inc, "Prescription for trouble," *Consumer Reports* 2001, 19-22. http://www.accessmylibrary.com/coms2/summary_0286-10577442_ITM.

Consumers Union Southwest Regional Office. "Animal Factories: Pollution and health threats to rural Texas," May, 2000, 30 pp. www.consumersunion.org/pdf/CAFOforweb.pdf

Contractor RG, Foran CM, Li SF, and Willett KL. "Evidence of gender- and tissue-specific promoter methylation and the potential for ethinylestradiol-induced changes in japanese medaka (Oryzias latipes) estrogen receptor and aromatase genes," *J Toxicol Environ Health - Part A - Current Issues* **2004**, *67*(1):1-2.

Coogan MA. "Bioaccumulation of tricolcarban, triclosan, and methyl-triclosan in a north Texas wastewater treatment plant receiving stream and effects of triclosan on algal lipid synthesis," Doctoral Dissertation, University of North Texax, 2007. 40 pp. http://64.233.167.104/search?q=cache:TN0LgzjwdfYJ:digital.library.unt.edu/permalink/meta-dc-3986:1+daughton+disposal&hl=en&ct=clnk&cd=130&gl=us.

Coogan MA, Edziyie RE, La Point TW, and Venables BJ. "Algal bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas wastewater treatment plant receiving stream," *Chemosphere* **2007**, *67*(10):1911-1918. http://www.sciencedirect.com/science/article/B6V74-4MYMNSH-3/2/62fcce4782437592552d48c2f2b4a49a.

Coogan MA, and La Point TW. "Snail bioaccumulation of triclocarban, triclosan, and methyltriclosan in a North Texas, USA, stream affected by wastewater treatment plant runoff," *Environ Toxicol Chem* **2008**, *27*(8):1788-1793. http://dx.doi.org/10.1897%2F07-374.1.

Cook R, and Calabrese EJ. "The importance of hormesis to public health," *Environ Health Perspect* **2007**, *114*(111):1631-1635.

Cooke MD. "Antibiotic resistance in coliform and faecal coliform bacteria from natural waters and effluents," *NZ J Marine Freshwater Res* **1976**, *10*(3):391-397. http://www.rsnz.org/publish/nzjmfr/1976/30.php.

Cooke R. "Study eyes overuse of antibacterial soap," Las Vegas Review Journal, 1998 37A.

Cooney CM. "Science panel confirms low-dose estrogenic effects," *Environ Sci Technol* **2000**, *34*(23):500A.

Cooney CM. "No human risks with pharmaceuticals in water," *Environ Sci Technol* **2005**, *39*(19):397A.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16245799.

Cooper ER, Siewicki TC, and Phillips K. "Preliminary risk assessment database and risk ranking of pharmaceuticals in the environment," *Sci Total Environ* **2008**, *398*(1-3):26-33. http://www.sciencedirect.com/science/article/B6V78-4SCTMVS-3/1/38fb7935fda69f19eb39b85bb5d0adbf.

Cooper WJ, Mezyk SP, Peller JR, Cole SK, Song W, Mincher BJ, et al. "Studies in Radiation Chemistry: Application to Ozonation and Other Advanced Oxidation Processes," *Ozone: Sci Eng* **2008**, *30*(1):58 - 64. http://www.informaworld.com/10.1080/01919510701761112.

Coors A, Jones PD, Giesy JP, and Ratte HT. "Assessing the elimination of estrogenic activity in advanced wastewater treatment with a reporter gene-based bioassay," *Water Science and Technology* **2004**, *50*(5):181-188. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20043169156.

Coppens I, and Courtoy PJ. "The adaptative mechanisms of Trypanosoma brucei for sterol homeostasis in its different life-cycle environments," *Ann Rev Microbiol* **2000**, *54*:129-156. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =11018126.

Cordova-Kreylos AL, and Scow KM. "Effects of ciprofloxacin on salt marsh sediment microbial communities," *ISME J* 2007, *1*(7):585-595. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18043666.

Cordy GE, Duran NL, Bouwer H, Rice RC, Furlong ET, Zaugg SD, et al. "Do pharmaceuticals, pathogens, and other organic waste water compounds persist when waste water is used for recharge?," *Ground Wat Monit Remediation* **2004**, *24*(2):58-69.

Cornish-Bowden A, and Cardenas ML. "Metabolic analysis in drug design," *Comptes Rendus Biologies* **2003**, *326*(5):509-515. http://www.sciencedirect.com/science/article/B6X1F-48XY0N1-7/2/c083a639ca012c585ebddc6f57f9fe13.

Correa SAL, and Hoffmann A. "Effect of Drugs That Alter Alertness and Emotionality on the Novelty Response of a Weak Electric Fish, Gymnotus carapo - Light microscopic and ultrastructural studies," *Physiol Behavior* **1998**, *65*(4):863-869.

http://www.ingentaconnect.com/content/els/00319384/1998/00000065/00000004/art00242 http://dx.doi.org/10.1016/S0031-9384(98)00242-X.

Correas JM, Boespflug O, Hamida K, El Rody F, Melki P, Helenon O, et al. "Doppler ultrasonography of peripheral vascular disease: the potential for ultrasound contrast agents," *J Comput Assist Tomogr* **1999**, *23 Suppl 1*:S119-127.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =10608407.

Corrieri L, Della Seta D, Canoine V, and Fusani L. "Developmental exposure to xenoestrogen enhances spatial learning in male rats," *Hormones and Behavior* **2007**, *51*(5):620-625. http://www.sciencedirect.com/science/article/B6WGC-4N6NK0X-2/2/0f0c956945d12ac67407801c7170589d.

Cortese J. "Death watch I: Cytotoxicity detection," The Scientist 2001, 15(5):26-27.

Cory-Slechta DA, Crofton KM, Foran JA, Ross JF, Sheets LP, Weiss B, et al. "Methods to identify and characterize developmental neurotoxicity for human health risk assessment. I: Behavioral effects," *Environ Health Perspect* **2001**, *109*(Suppl.):79-91.

Cosmetic Ingredient Review (CIR) "30th Anniversary and How cosmetics are regulated," http://www.cir-safety.org/ http://www.ctfa.org/Content/NavigationMenu/Consumer_Information/Cosmetic_Regulation/Cosmetic Regulation.htm.

Cossins A. "Cryptic clues revealed," *Nature* **1998**, *396*(6709):309-310. http://dx.doi.org/10.1038/24483.

Costanzo SD, Murby J, and Bates J. "Ecosystem response to antibiotics entering the aquatic environment," *Mar Pollut Bull* **2005**, *51*(1-4):218-223. http://www.sciencedirect.com/science/article/B6V6N-4DW34M6-1/2/ecccb6e6aba34422619e2f2703c396fa.

Cotgreave IA. "Session 3: Stress Response," *Toxicol in Vitro* **1998**, *12*(5):569-573. http://www.sciencedirect.com/science/article/B6TCP-3TXD309-F/2/fda67ad64827f3b7be68b8fd3c7b14c4.

Cotgreave IA, and Gerdes RG. "Breakthroughs and views - Recent trends in glutathione biochemistry - glutathione - protein interactions: a molecular link between oxidative stress and cell proliferation?," *Biochem Biophys Res Comm* **1998**, *242*(1):1-9.

Cotman M, Zagorc-Koncan J, and Drolc A. "Study of impacts of treated wastewater to the Krka river," *Wat Sci Technol* **2001**, *44*(6):47-54.

Counsell RE, Lu MC, Masry SE, and Weinhold PA. "Inhibition of cholesterol side-chain cleavage by azacholesterols," *Biochem Pharmacol* **1971**, *20*(10):2912-2915. http://hdl.handle.net/2027.42/33568 http://www.sciencedirect.com/science/article/B6T4P-477GHDK-VT/2/74638c821bd298207fef772c0234c150.

Couper JM, and Leise EM. "Serotonin Injections Induce Metamorphosis in Larvae of the Gastropod Mollusc Ilyanassa obsoleta," *Biolog Bull* **1996**, *191*(2):178-186. http://www.biolbull.org/cgi/content/abstract/191/2/178.

Cowan-Ellsberry CE, Dyer SD, Erhardt S, Bernhard MJ, Roe AL, Dowty ME, et al. "Approach for extrapolating in vitro metabolism data to refine bioconcentration factor estimates," *Chemosphere* **2008**, *70*(10):1804-1817. http://www.sciencedirect.com/science/article/B6V74-4PSJSMR-3/2/c1ae86520d7808ccf96b49e689bae81c.

Cowen LE, and Lindquist S. "Hsp90 Potentiates the Rapid Evolution of New Traits: Drug Resistance in Diverse Fungi," *Science* **2005**, *309*(5744):2185-2189. http://www.sciencemag.org/cgi/content/abstract/309/5744/2185.

Cowen LE, Nantel A, Whiteway MS, Thomas DY, Tessier DC, Kohn LM, et al. "Population genomics of drug resistance in Candida albicans," *Proc Nat Acad Sci* **2002**, *99*(14):9284-9289. http://www.pnas.org/cgi/content/abstract/99/14/9284.

Coyne R, Bergh Ø, and Samuelsen OB. "One-step liquid chromatographic method for the determination of oxytetracycline in fish muscle," *J Chromatogr B* **2004**, *810*(2):325-328. http://www.sciencedirect.com/science/article/B6X0P-4DB50H7-1/1/e7545a652be77ca54c3ba638b54044bd.

Coyne R, Hiney M, O'Connor B, Kerry J, Cazabon D, and Smith P. "Concentration and Persistence of Oxytetracycline in Sediments Under A Marine Salmon Farm," *Aquaculture* **1994**, *123*:31-42.

Coyne R, Hiney M, and Smith P. "Transient presence of oxytetracycline in blue mussels (Mytilus edulis) following its therapeutic use at a marine Atlantic salmon farm," *Aquaculture* **1997**, *149*:175-181.

Craft JA, Brown M, Dempsey K, Francey J, Kirby MF, Scott AP, et al. "Kinetics of vitellogenin protein and mRNA induction and depuration in fish following laboratory and environmental exposure to oestrogens," *Mar Environ Res* **2004**, *58*(2-5):419-423. http://www.sciencedirect.com/science/article/B6V7H-4C8P8HM-1/1/d92da52c4f8b82a532787ee2418cd3db.

Craig M, Grant L, and Ryan M. "Argyll and Clyde NHS Board, Lomond and Argyll Primary Care NHS Trust, Disposal of Unwanted Medicinal Products (DUMP) Campaign and Audit," Feburary, 2001, 9 pp.

Crain SM, and Shen K-F. "Ultra-low concentrations of naloxone selectively antagonize excitatory effects of morphine on sensory neurons, thereby increasing its antinociceptive potency and attenuating tolerance/dependence during chronic cotreatment," *Proc Nat Acad Sci* **1995**, *92*(23):10540-10544.

Crain SM, and Shen K-F. "Antagonists of excitatory opioid receptor functions enhance morphine's analgesic potency and attenuate opioid tolerance/dependence liability," *Pain* **2000**, *84*(2-3):121-131.

Crain SM, and Shen K-F. "Enhanced analgesic potency and reduced tolerance of morphine in 129/SvEv mice: evidence for a deficiency in GM1 ganglioside-regulated excitatory opioid receptor functions," *Brain Res* **2000**, *856*(1-2):227-235. http://www.sciencedirect.com/science/article/B6SYR-3YJYD5G-1D/2/0e4bea14f7dc8bfe382725a35a2b9878.

Crain SM, and Shen K-F. "Acute thermal hyperalgesia elicited by low-dose morphine in normal mice is blocked by ultra-low-dose naltrexone, unmasking potent opioid analgesia," *Brain Res* **2001**, 888(1):75-82. http://www.sciencedirect.com/science/article/B6SYR-423JKSM-9/2/270c2e86823c8abc60690b3c027e8f1d.

Crane HM, Pickford DB, Hutchinson TH, and Brown JA. "The effects of methimazole on development of the fathead minnow, Pimephales promelas, from embryo to adult," *Toxicol Sci* **2006**, *93*(2):278-285.

Crane M. "Proposed development of Sediment Quality Guidelines under the European Water Framework Directive: a critique," *Toxicol Lett* **2003**, *142*(3):195-206. http://www.sciencedirect.com/science/article/B6TCR-4897M4T-3/2/2d6ba38c785753fa95f76e7b32ae34bc.

Crane M, Boxall ABA, and Barrett K, Eds., "Veterinary medicines in the environment," CRC Press, Boca Raton, FL, 2008, 240 pp.

Crane M, and Watts C. "Annex D: Review - Chronic Risks of Human Pharmaceuticals in the Aquatic Environment. in: Environment Agency 2006: workshop on chronic aquatic ecotoxicity testing of human pharmaceuticals," Watts & Crane Associates, Oxfordshire, England, May, 2006, 57-95 pp.

Crane M, Watts C, and Boucard T. "Chronic aquatic environmental risks from exposure to human pharmaceuticals," *Sci Total Environ* **2006**, *367*(1):23-41. http://www.sciencedirect.com/science/article/B6V78-4K4WGYC-2/2/332c70ba2e3dc1d87d0d9765e4028b55.

Crimmins WF. "Disposing of Expired Drugs: a Matter of Policy," *J Am Vet Med Assoc* 2001, *218*(1):10.

Crisostomo S, Mendes Z, Marquest FB, Martins AP, Rodrigues V, and Ribeiro CF. "Quantifying the amount and cost of wasted medicines in Portugal," *Pharmacoepidemiol Drug Safety* **2006**, *15*:S1-S316.

Crofton KM, Craft ES, Hedge JM, Gennings C, Simmons JE, Carchman RA, et al. "Thyroid-hormonedisrupting chemicals: Evidence for dose-dependent additivity or synergism," *Environ Health Perspect* **2005**, *113*(11):1549-1555.

Crofton KM, Paul KB, DeVito MJ, and Hedge JM. "Short-term in vivo exposure to the water contaminant triclosan: Evidence for disruption of thyroxine," *Environ Toxicol Pharmacol* **2007**, *24*(2):194-197. http://www.sciencedirect.com/science/article/B6T6D-4NKJ0GK-2/2/668d73878cfffffd3a4f2f76b699af9d.

Croley TR, Hughes RJ, Koenig BG, Metcalfe CD, and March RE. "Mass spectrometry applied to the analysis of estrogens in the environment," *Rapid Commun Mass Spectrom* **2000**, *14*(13):1087-1093.

Cromarty E, and Downie G. "Drug wastage — what is acceptable?," *The Pharmaceutical J* 2001, 267(7167):424. http://www.pharmj.com/Editorial/20010929/comment/spectrum.html.

Crosina QK. "A bench-scale evaluation of the removal of selected pharmaceuticals and personal care products by UV and UV/H_2O_2 in drinking water treatment "Masters Dissertation, University of Waterloo, Waterloo, Ontario, Canada, 2006. 158 pp.

http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2263614 ,FM=9,SEARCH=MD.GenericSearch

http://uwspace.uwaterloo.ca/handle/10012/2632.

Crotty S, Cameron CE, and Andino R. "RNA Virus Error Catastrophe: Direct Molecular Test by Using Ribavirin," *Proceedings of the National Academy of Sciences of the United States of America* **2001**, *98*(12):6895-6900. http://www.jstor.org/stable/3055908.

Crumplin GC. "Waste medicines v unwanted medicines - incineration or altruism?," *Pharm J* 2000, 264(7089):467. http://www.pharmj.com/Editorial/20000325/comment/bs_wastemedicines.html.

Csermely P. "Chaperone overload is a possible contributor to 'civilization diseases'," *Trends Genetics* **2001**, *17*(12):701-704. http://www.sciencedirect.com/science/article/B6TCY-44FBRWW-R/1/1029550829397b71231aa925c03207c8.

Cubbage RC, Hamly RB, and Swartz TC. "Transdermal patch disposal system and method," United States Patent 5804215, Application No. 821467 filed on 1997-03-21, 1998. http://www.patentstorm.us/patents/5804215.html and http://www.google.com/patents?hl=en&lr=&vid=USPAT5804215&id=h6gfAAAAEBAJ&oi=fnd&dq =medication+disposal.

Cuderman P, and Heath E. "Determination of UV filters and antimicrobial agents in environmental water samples," *Anal Bioanal Chem* **2007**, *387*(4):1343-1350.

Cue BW. "Can Drug Delivery Be A Solution to the Pharmaceuticals In the Environment Problem?," Slide Presentation, Portland, ME, August 9 2007. http://www.neiwpcc.org/ppcpconference/ppcp-docs/BerkleyCue.pdf.

Cueva-Mestanza R, Sosa-Ferrera Z, Torres-Padrón ME, and Santana-Rodríguez JJ. "Preconcentration of pharmaceuticals residues in sediment samples using microwave assisted micellar extraction coupled with solid phase extraction and their determination by HPLC-UV," *J Chromatogr B* **2008**, *863*(1):150-157. http://www.sciencedirect.com/science/article/B6X0P-4RMNYJ6-3/1/ca572dd9286486b1c388459920821de0.

Cui CW, Ji SL, and Ren HY. "Determination of steroid estrogens in wastewater treatment plant of a controceptives producing factory," *Environ Monit Assess* **2006**, *121*(1-3):409-419.

Cui Z, and Taha T. "Enhancement of ultrafiltration using gas sparging: a comparison of different membrane modules," *J Chem Technol Biotechnol* **2003**, 78(2-3):249-253. http://dx.doi.org/10.1002/jctb.763.

Cunningham VL. "Special characteristics of pharmaceuticals related to environmental fate," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 2, 13-23. http://dx.doi.org/10.1002/chin.200546273.

Cunningham VL, Buzby M, Hutchinson T, Mastrocco F, Parke N, and Roden N. "Effects of human pharmaceuticals on aquatic life: Next steps," *Environ Sci Technol* **2006**, *40*(11):3456-3462. http://pubs.acs.org/subscribe/journals/esthag/40/i11/pdf/060106viewpoint_cunningham.pdf http://pubs.acs.org/subscribe/journals/esthag/40/i11/html/060106viewpoint_cunningham.html.

Cunningham VL, Constable DJ, and Hannah RE. "Environmental Risk Assessment of Paroxetine," *Environ Sci Technol* **2004**, *38*(12):3351-3359. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es035119x.

Curry M, Hazard-Daniel A, Daniel HJ, and Zeisel SH. "Nutraceuticals," *Science* **1999**, 286(5446):1853e-. http://www.sciencemag.org/cgi/content/full/286/5446/1853e.

Cutrona SL, Woolhandler S, Lasser KE, Bor DH, McCormick D, and Himmelstein DU. "Characteristics of Recipients of Free Prescription Drug Samples: A Nationally Representative Analysis," *Am J Public Health* **2008**, *98*(2):284-289. http://www.ajph.org/cgi/content/abstract/98/2/284 http://www.medscape.com/viewarticle/569970.

Cyclamed "Un dispositif valorisant au service de la profession. Cyclamed, association loi 1901 à but non lucratif, est l'émanation de l'ensemble de la Profession pharmaceutique, permettant ainsi la présence et l'expertise d'un pharmacien sur la totalité de la chaîne du médicament.," http://www.unpf.org/cyclamed/video_index2.htm.

Czajka CP, and Londry KL. "Anaerobic biotransformation of estrogens," *Sci Total Environ* **2006**, *367*(2-3):932-941. http://www.sciencedirect.com/science/article/B6V78-4JRKCTF-1/2/bbf78ba7310de1186d2c516de8706cc6.

Czech P, Weber K, and Dietrich DR. "Effects of endocrine modulating substances on reproduction in the hermaphroditic snail Lymnaea stagnalis L," *Aqua Toxicol* **2001**, *53*(2):103-114. http://www.sciencedirect.com/science/article/B6T4G-42SPKCT-3/1/42fc25a70aa33b5a06a18c7feda58cc3.

da Costa PMN, Vaz-Pires PM, and Bernardo F. "Antibiotic resistance of Enterococcus spp. isolated from wastewater and sludge of poultry slaughterhouses," *J Environ Sci Health Part B Pesticides Food Contamin Agri Wastes* **2006**, *41*(8):1393-1403. http://cat.inist.fr/?aModele=afficheN&cpsidt=18299953.

Da Silva CE, Hoppe AE, Ravanello MM, and Mello N. "Medical wastes management in the south of Brazil," *Waste Manage* **2005**, *25*(6):600-605. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VFR-4CCNSDH-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=293e54cf44a97147f631f8136d1f4853.

da Silva MF, Vaz-Moreira I, Gonzalez-Pajuelo M, Nunes OC, and Manaia CM. "Antimicrobial resistance patterns in Enterobacteriaceae isolated from an urban wastewater treatment plant," *FEM Microbiol Ecol* **2007**, *60*(1):166-176.

D'Abrosca B, Fiorentino A, Izzo A, Cefarelli G, Pascarella MT, Uzzo P, et al. "Phytotoxicity evaluation of five pharmaceutical pollutants detected in surface water on germination and growth of cultivated and spontaneous plants," *J Environ Sci Health Part A* **2008**, *43*(3):285 - 294. http://www.informaworld.com/10.1080/10934520701792803.

Daemmrich A, and Bowden ME. "Emergence of Pharmaceutical Science and Industry: 1870-1930," *Chem Eng News* **2005**, *83*(25) http://pubs.acs.org/cen/coverstory/83/8325/8325emergence.html.

Dagnac T, Bristeau S, Leroy C, Coton C, Fleury N, and Jeannot R. "Analysis of organic pollutants in environment," BRGM, Orleans, France, 2005, pp.

Dalmazio I, Almeida MO, Augusti R, and Alves TMA. "Monitoring the Degradation of Tetracycline by Ozone in Aqueous Medium Via Atmospheric Pressure Ionization Mass Spectrometry," *J Am Soc Mass Spectrom* **2007**, *18*(4):679-687. http://www.sciencedirect.com/science/article/B6TH2-4MV71JT-2/2/95d4ca4306b67bd0381ee539f177f34a.

Dalmazio I, Alves TMA, and Augusti R. "An appraisal on the degradation of paracetamol by TiO2/UV system in aqueous medium: product identification by gas chromatography-mass spectrometry (GC-MS)." *J Braz Chem Soc* **2008**, *19*(1):81-88. http://www.scielo.br/scielo.php?pid=S0103-50532008000100013&script=sci_arttext&tlng=enDirectory.

Dalmazio I, Santos LS, Lopes RP, Eberlin MN, and Augusti R. "Advanced Oxidation of Caffeine in Water: On-Line and Real-Time Monitoring by Electrospray Ionization Mass Spectrometry," *Environ Sci Technol* **2005**, *39*(16):5982-5988. http://pubs2.acs.org/acs/journals/doilookun2in_doi=10_1021/ac047085y

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es047985v.

Dalrymple OK, Yeh DH, and Trotz MA. "Removing pharmaceuticals and endocrine-disrupting compounds from wastewater by photocatalysis," *J Chem Technol Biotechnol* **2007**, *82*(2):121-134. http://www3.interscience.wiley.com/journal/114056564/abstract?CRETRY=1&SRETRY=0.

Damstra T, Barlow S, Bergman A, Kavlock R, and Van Der Kraak G. "Global assessment of the stateof-the-science of endocrine disruptors." Geneva, Switzerland, World Health Organization, WHO, 2002, 180 pp. http://www.who.int/pcs/emerg_site/edc/global_edc_TOC.htm.

Danet AF, David V, and David I. "Acetaminophen determination by flow injection analysis with biamperometric detection," *Revue Roumaine De Chimie* **1998**, *43*:811-816. www.chimie.unibuc.ro/catedre/cv/analitica/cv_vdavid.pdf

Dang H, Ren J, Song L, Sun S, and An L. "Diverse Tetracycline Resistant Bacteria and Resistance Genes from Coastal Waters of Jiaozhou Bay," *Microb Ecol* **2008**, *55*(2):237-246. http://dx.doi.org/10.1007/s00248-007-9271-9.

Dang H, Zhang X, Song L, Chang Y, and Yang G. "Molecular determination of oxytetracyclineresistant bacteria and their resistance genes from mariculture environments of China," *J Appl Microbiol* **2007**, *103*(6):2580-2592.

http://www.ingentaconnect.com/content/bsc/jam/2007/00000103/0000006/art00062 http://dx.doi.org/10.1111/j.1365-2672.2007.03494.x.

Danish EPA, Halling-Sørensen B, Nors Nielsen S, and Jensen J. "Environmental assessment of veterinary medicinal products in Denmark," Danish EPA, Denmark, 2002. http://www.mst.dk.

Daniszewsi R, C.A. L, Marriott JF, Wilson KA, Clewes P, and Wilkinson M. "An investigation of medicines returned to general practitioners and community pharmacies," *Internat J Pharm Practices* **2002**:1. http://www.pjonline.biz/IJPP/bpc2002/ijpp_bpc2002_r42.pdf.

Danovaro R, Armeni M, Corinaldesi C, and Mei ML. "Viruses and marine pollution," *Mar Pollut Bull* **2003**, *46*(3):301-304. http://www.sciencedirect.com/science/article/B6V6N-47X6PSN-6/1/f55313fa715f58760b6560b37cac75cf.

Danovaro R, Bongiorni L, Corinaldesi C, Giovannelli D, Damaiani E, Astolfi P, et al. "Sunscreens Cause Coral Bleaching by Promoting Viral Infections," *Environ Health Perspect* **2008**, *116*(4):441-447. http://dx.doi.org/.

Danovaro R, and Corinaldesi C. "Sunscreen products increase virus production through prophage induction in marine bacterioplankton," *Microbial Ecol* **2003**, *45*(2):109-118. http://www.springerlink.com/content/ufhlpg8x1cby2lkx/.

Dantas G, Sommer MOA, Oluwasegun RD, and Church GM. "Bacteria Subsisting on Antibiotics," *Science* **2008**, *320*(5872):100-103. http://www.sciencemag.org/cgi/content/abstract/320/5872/100.

Dantas RF, Canterino M, Marotta R, Sans C, Esplugas S, and Andreozzi R. "Bezafibrate removal by means of ozonation: Primary intermediates, kinetics, and toxicity assessment," *Water Research* **2007**, *41*(12):2525-2532. http://www.sciencedirect.com/science/article/B6V73-4NKJ19T-4/2/b535ad8c565c069f28243971f2512f44.

Dantas RF, Contreras S, Sans C, and Esplugas S. "Sulfamethoxazole abatement by means of ozonation," *J Haz Mat* **2008**, *150*(3):790-794. http://www.sciencedirect.com/science/article/B6TGF-4NRK4NB-D/1/24cc6908e69e5069f9fdd970cf90651b.

Darbre PD. "Environmental oestrogens, cosmetics and breast cancer," *Best Practice Res Clinical Endocrinol Metabolism* **2006**, *20*(1):121-143. http://www.sciencedirect.com/science/article/B6WBD-4JDTJ3H-B/2/6763dd0a31aaf3e331d125757abc7e80.

Darbre PD, Aljarrah A, Miller WR, Coldham NG, Sauer MJ, and Pope GS. "Concentrations of parabens in human breast tumours," *J Appl Toxicol* **2004**, *24*(1):5-13. http://www3.interscience.wiley.com/cgi-bin/abstract/106600317/ABSTRACT.

D'Arrigo C, Migliardi G, Santoro V, and Spina E. "Determination of olanzapine in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection," *Therapeut Drug Monit* **2006**, *28*(3):388-393.

Dart RC. "Medical Toxicology," Lippincott, Williams and Wilkins, 2004, Third ed., 1914 pp. http://www.amazon.com/exec/obidos/ASIN/0781728452.

Das BS, Lee LS, Rao PSC, and Hultgren RP. "Sorption and degradation of steroid hormones in soils during transport: Column studies and model evaluation," *Environ Sci Technol* **2004**, *38*(5):1460-1470. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i05/abs/es034898e.html.

D'Ascenzo G, Di Corcia A, Gentili A, Mancini R, Mastropasqua R, Nazzari M, et al. "Fate of natural estrogen conjugates in municipal sewage transport and treatment facilities," *Sci Total Environ* **2003**, *302*(1-3):199-209. http://www.sciencedirect.com/science/article/B6V78-46XHJB5-9/2/b1604428f3daa36eb3eb6ac0156c10b3.

Dasgupta A, Appenzeller P, and Moore J. "Gas chromatography electron ionization and chemical ionization mass spectrometric analysis of serum mexiletine concentration after derivatization with 2,2,2-trichloroethyl chloroformate: A novel derivative," *Therapeut Drug Monit* **1998**, *20*(3):313-318.

Daston GP. "Developmental toxicity evaluation of butylparaben in Sprague-Dawley rats', Birth Defects Res. Part B - Developmental and Reporductive," *Toxicology* **2004**, *71*(4):296-302.

Daughton CG. "Complete list of publications," http://www.epa.gov/nerlesd1/bios/daughton.htm.

Daughton CG. "Emerging pollutants, and communicating the science of environmental chemistry and mass spectrometry: pharmaceuticals in the environment," *J Am Soc Mass Spectrom* **2001**, *12*(10):1067-1076. http://www.sciencedirect.com/science/article/B6TH2-442Y2DS-1/2/1f7b3b7abe1ce68dd2e3262a52b22bb2.

Daughton CG. "Origins and Fate of PPCPs in the Environment," Poster Presentation, USEPA, NERL, Las Vegas, NV, February, (last updated March 2006) 2001. http://www.epa.gov/nerlesd1/bios/daughton/drawing.pdf.

Daughton CG. "Pharmaceuticals & Personal Care Products (PPCPs) in the Environment: Agents of Subtle Change?," Poster Presentation, USEPA, NERL, Las Vegas, NV, January 2001. http://www.epa.gov/nerlesd1/bios/daughton/254ecb99rev.pdf.

Daughton CG. "Commentary on Illicit Drugs in the Environment: A Tool for Public Education -Societal Drug Abuse and Its Aiding of Terrorism.' [This commentary further elaborates and extends upon the ideas first presented in the book Pharmaceuticals and Personal Care Products in the Environment Scientific and Regulatory Issues, Chapter 20, Illicit Drugs in Municipal Sewage: Proposed New Non-Intrusive Tool to Heighten Public Awareness of Societal Use of Illicit-Abused Drugs and Their Potential for Ecological Consequences]," USEPA, NERL, Daughton CG and Jones-Lepp T, Eds., Washington, DC 2001, xxx pp. http://www.epa.gov/nerlesd1/bios/daughton/bookpost.htm.

Daughton CG. "Illicit Drugs in Municipal Sewage: Proposed New Non-Intrusive Tool to Heighten Public Awareness of Societal Use of Illicit/Abused Drugs and Their Potential for Ecological Consequence," in *Pharmaceuticals and Personal Care Products in the Environment: Scientific and Regulatory Issues*, Daughton CG and Jones-Lepp T, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 20, 348-364. http://www.epa.gov/nerlesd1/bios/daughton/book-conclude.htm.

Daughton CG. "Pharmaceuticals and Personal Care Products in the Environment: Overarching Issues and Overview," in *Pharmaceuticals and Personal Care Products in the Environment: Scientific and Regulatory Issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 1, 2-38. http://www.epa.gov/nerlesd1/bios/daughton/book-summary.htm.

Daughton CG. "Pollution from Personal Actions, Activities, and Behaviors: Pharmaceuticals and Personal Care Products in the Environment (Multidimensional Science Issues Relevant to Regulatory Considerations), Environment 2001: Water, Energy and the Law," Pharmaceutical Discharges and Drinking Water The Tulane Institute for Environmental Law and Policy, New Orleans, Louisiana, 9 March 2001. http://www.law.tulane.edu/inst/el01/env.htm, http://www.law.tulane.edu/elp, and http://www.epa.gov/nerlesd1/bios/daughton/pollution1.pdf.

Daughton CG. "Literature Forensics? Navigating through flotsam, jetsam, and lagan," *The Scientist* **2002**, *16*(4):12. http://www.epa.gov/nerlesd1/bios/daughton.htm.

Daughton CG. "Biological Systems and Stressors: 'Toxicant Totality Tolerance Trajectory' - 4T's," Poster Presentation, USEPA, NERL, Las Vegas, NV, 2002. http://www.epa.gov/nerlesd1/bios/daughton/stressor.pdf.

Daughton CG. "Environmental stewardship and drugs as pollutants," *The Lancet* **2002**, *360*(9339):1035-1036. http://www.sciencedirect.com/science/article/B6T1B-46X8FK7-5/2/45c8543eefcb2b7bd8b47693664a6f02.

Daughton CG. "Chemicals from Pharmaceuticals and Personal Care Products," in *Water: Science and Issues*, Dasch EJ, Ed., Macmillan Reference USA; New York, NY, 2003, 158-164. http://www.epa.gov/nerlesd1/bios/daughton/Macmillan-PPCPs.pdf.

Daughton CG. "Pollution from the Combined Activities, Actions, and Behaviors of the Public: Pharmaceuticals and Personal Care Products, invited article for Diversified Perspectives, Northern California Regional Chapter of the Society of Environ Toxicol Chem," *NorCal SETAC News* 2003, *14*(1):5-15. http://www.epa.gov/nerlesd1/bios/daughton/seatac.pdf.

Daughton CG. "Non-Regulated Contaminants: Emerging Issues," National Academies, Institute of Medicine, Roundtable on Environmental Health Sciences, Research, and Medicine (EHSRM), Washington, DC, 16 October, 2003, 10 pp. http://www.epa.gov/nerlesd1/bios/daughton/iom-ppt-2003.pdf and http://www.iom.edu/event.asp?id=14623 Note: The proceedings from this workshop were summarized in an IOM book: "From Source Water to Drinking Water: Workshop Summary," 2004; available: http://books.nap.edu/catalog/11142.html (see pages 39-42, section "Non-regulated Contaminants": http://books.nap.edu/books/0309093066/html/35.html#pagetop.

Daughton CG. "Environmental Stewardship of Pharmaceuticals: The Green Pharmacy," National Ground Wat Association (NGWA), 3rd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, 19-21 March, 2003, http://www.epa.gov/nerlesd1/bios/daughton/ngwa2003.pdf.

Daughton CG. "Cradle-to-cradle stewardship of drugs for minimizing their environmental disposition while promoting human health. I. Rationale for and avenues toward a green pharmacy," *Environ Health Perspect* **2003**, *111*(5):757-774. http://ehpnet1.niehs.nih.gov/docs/2003/5947/abstract.html and http://www.epa.gov/nerlesd1/bios/daughton/green1.pdf.

Daughton CG. "Cradle-to-cradle stewardship of drugs for minimizing their environmental disposition while promoting human health. II. Drug disposal, waste reduction, and future directions," *Environ Health Perspect* **2003**, *111*(5):775-785. http://ehpnet1.niehs.nih.gov/docs/2003/5947/abstract.html and http://www.epa.gov/nerlesd1/bios/daughton/green2.pdf.

Daughton CG. "Groundwater recharge and chemical contaminants: Challenges in communicating the connections and collisions of two disparate worlds " *Ground Wat Monit Remediation* **2004**, *24*(2):127-

138. http://www.epa.gov/nerlesd1/bios/daughton/water-reuse.pdf and contents for entire special issue: http://www.blackwell-synergy.com/toc/gwmr/24/2.

Daughton CG. "Non-regulated water contaminants: emerging research," *Environ Impact Assessment Rev* **2004**, *24*(7-8):711-732. http://www.epa.gov/nerlesd1/bios/daughton/EIAR.pdf; http://www.sciencedirect.com/science/article/B6V9G-4D8MRXH-1/2/687448c658728995e6715844c57610c4.

Daughton CG. "PPCPs in the environment: Future research - beginning with the end always in mind," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 33, 463-496. http://www.epa.gov/nerlesd1/bios/daughton/researchneeds-chapter.pdf.

Daughton CG. "Emerging chemicals as pollutants in the environment: a 21st century perspective," *Renewable Res J* 2005, *23*(4):6-23. <u>http://www.epa.gov/nerlesd1/bios/daughton/emerging_contaminants.pdf</u>.

Daughton CG. "Emerging Pollutants - Questions, Challenges, and the Future," Network of Reference Laboratories for Monitoring of Emerging Environmental Pollutants, EU, Guest Editorial, Ed., Stresa, Italy, 2006, pp. http://www.norman-network.net/index_php.php?module=public/others/newsletter and http://www.norman-network.net/newsletters/newsletter_norman_1.pdf.

Daughton CG. "Pharmaceuticals in the environment: sources and their management," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 1, 1-58.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Daughton CG. "Pharmaceuticals as environmental pollutants: the ramifications for human exposure," in *International Encyclopedia of Public Health*, Heggenhougen K and Quah S, Eds., Elsevier, Academic Press, 2008, Publication targeted for 2008. http://www.elsevier.com/wps/find/bookdescription.cws_home/714579/description#toc/ http://www.elsevier.com/wps/find/bookdescription.cws_home/714579/description#description.

Daughton CG, and Jones-Lepp T, Eds., "Pharmaceuticals and Personal Care Products in the Environment: Scientific and Regulatory Issues," American Chemical Society, Washington, DC, 2001, ACS Symposium Series 791, 396 pp. http://www.epa.gov/nerlesd1/bios/daughton.htm.

Daughton CG, and Jones-Lepp TL. "Preface," in *Pharmaceuticals and Personal Care Products in the Environment: Scientific and Regulatory Issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Preface, xi-xvi. http://www.epa.gov/nerlesd1/bios/daughton/preface.htm.

Daughton CG, and Ruhoy IS. "Pharmaceuticals in the Environment - - Why Should Anyone Care?" guest editorial," *Report for KNAPPE Newsletter No 2, Knowledge and Need Assessment on Pharmaceutical Products in Environ Waters* **2007**, (October):1-6. http://www.knappe-eu.org/fichiers/41-Newsletter%202%200CT%202007-1%20(D6.2.2).pdf.

Daughton CG, and Ruhoy IS. "The Afterlife of Drugs and the Role of PharmEcovigilance," *Drug Safety* **2008**, *Accepted July* 2008.

Daughton CG, and Ruhoy IS. "PharmEcovigilance: Aligning Pharmacovigilance with Environmental Protection," in *An Introduction to Environmental Pharmacology*, Rahman SZ and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008 (in press).

Daughton CG, and Ruhoy IS. "Accumulation and disposal of leftover medications: A key aspect of pharmEcovigilance," in *An Introduction to Environmental Pharmacology* Rahman SZ and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008 (in press).

Daughton CG, and Ternes TA. "Pharmaceuticals and personal care products in the environment: Agents of subtle change?," *Environ Health Perspect* **1999**, *107*(suppl 6):907-938. http://www.ehponline.org/docs/1999/suppl-6/907-938daughton/abstract.html.

Daughton CG, and Ternes TA. "Erratum: Pharmaceuticals and personal care products in the environment: agents of subtle change? (Environ. Health Perspect. 1999, 107(suppl 6), 907-938) " *Environ Health Perspect* **2000**, *108*(3):598-598. http://www.epa.gov/nerlesd1/bios/daughton/errata.pdf.

David RM. "Exposure to phthalate esters," *Environ Health Perspect* **2000**, *108*(10):979-982. http://ehpnet1.niehs.nih.gov/docs/2000/108-10/correspondence.html.

Davidner AA, Corey AD, Reqla P, Danta RC, and Mallett SR. "Apparatus for facilitating medical waste disposal " United States Patent 7296688, Application No. 11417471 filed on 2006-05-03, 2007. http://www.freepatentsonline.com/7296688.html

Davidson AW. "The Disposal of Pharmaceutical Waste," *J Royal Soc for the Promotion of Health* **1989**, *109*(3):110-111. http://rsh.sagepub.com/cgi/pdf_extract/109/3/110.

Davies AJ, and Maillard JY. "Bacterial adaptation to biocides: the possible role of [`]alarmones'," *J Hospital Infection* **2001**, *49*(4):300-302. http://www.sciencedirect.com/science/article/B6WJP-4581BGG-3S/1/de6ff60384647d5ee91a078637434814.

Davies IM, Rodger GK, Redshaw J, and Stagg RM. "Targeted environmental monitoring for the effects of medicines used to treat sea-lice infestation on farmed fish," *ICES J Mar Sci* **2001**, *58*(2):477-485. http://icesjms.oxfordjournals.org/cgi/content/abstract/58/2/477.

Davis AS, Wingfield CL, Forrester CW, Guthrie MK, and McNew JL. "Streamlining outpatient drug therapy at a Veterans Affairs medical center," *Am J Health - System Pharmacy* **1997**, *54*(23):2719-2720.

Davis JG, Truman CC, Kim SC, Ascough JC, and Carlson K. "Antibiotic transport via runoff and soil loss," *J Environ Qual* **2006**, *35*(6):2250-2260. http://jeq.scijournals.org/cgi/content/full/35/6/2250.

Davis KB, Morrison J, and Galvez JI. "Reproductive characteristics of adust channel catfish treated with trenbolone acetate during the phenocritical period of sex differentiation "*Acquaculture* **2000**, *189*(3-4):351-360.

Davis-Bruno KL, and Atrakchi A. "A Regulatory Perspective on Issues and Approaches in Characterizing Human Metabolites," *Chem Res Toxicol* **2006**, *19*(12):1561-1563. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/tx060203m.

Davison J. "Genetic Exchange between Bacteria in the Environment," *Plasmid* **1999**, *42*(2):73-91. http://www.sciencedirect.com/science/article/B6WPF-45FCRNJ-B/2/4769c7eb1720dbb6321df6d265e4909f.

Dawod M, Breadmore MC, Guijt RM, and Haddad PR. "Electrokinetic supercharging for on-line preconcentration of seven non-steroidal anti-inflammatory drugs in water samples," *J Chromatogr A* **2008**, *1189*(1-2):278-284. http://www.sciencedirect.com/science/article/B6TG8-4RFCD2F-3/1/6adb861a1fc818bb2ee780e301bde423.

Dayan AD. "Risk assessment of triclosan [Irgasan®] in human breast milk," *Food Chem Toxicol* **2007**, *45*(1):125-129. http://www.sciencedirect.com/science/article/B6T6P-4PNJ1NF-K/2/3a98f0aad5eb6fc3e503cbcd74d92b61.

D'Costa VM, McGrann KM, Hughes DW, and Wright GD. "Sampling the Antibiotic Resistome," *Science* **2006**, *311*(5759):374-377. http://www.sciencemag.org/cgi/content/abstract/311/5759/374.

de Alda MJL, and Barcelo D. "Review of analytical methods for the determination of estrogens and progestogens in waste waters," *Fres J Anal Chem* **2001**, *371*(4):437-447.

de Alda MJL, and Barcelo D. "Use of solid-phase extraction in various of its modalities for sample preparation in the determination of estrogens and progestogens in sediment and water," *J Chromatogr A* **2001**, *938*(1-2):145-153.

de Alda MJL, Diaz-Cruz S, Petrovic M, and Barcelo D. "Liquid chromatography-(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment," *J Chromatogr A* **2003**, *1000*(1-2):503-526.

de Alda MJL, Gil A, Paz E, and Barcelo D. "Occurrence and analysis of estrogens and progestogens in river sediments by liquid chromatography-electrospray-mass spectrometry," *Analyst* **2002**, *127*(10):1299-1304.

De Benedittis J, and Bertrand-Krajewski JL. "Measurement of exfiltration in urban sewer systems using nacl as an artificial tracer," *Houille Blanche-Revue Internationale de l'eau* **2005**, *5*:26-34.

De Bolle L, Mehuys E, Adriaens E, Remon J-P, Bortel LV, and Christianens T. "Home medication cabinets and self-medication: A source of potential health threats?," *Ann Pharmacother* **2008**, *42*:572-579.

De Gelder L, Vandecasteele FPJ, Brown CJ, Forney LJ, and Top EM. "Plasmid Donor Affects Host Range of Promiscuous IncP-1β Plasmid pB10 in an Activated-Sludge Microbial Community," *Appl Environ Microbiol* **2005**, *71*(9):5309-5317. http://aem.asm.org/cgi/content/abstract/71/9/5309.

De Groote A. "Unwanted pharmaceuticals and developing countries: what is actually happening, out in the field [Les medicaments non utilises et les pays en developpement: la realite du terrain]," *Sante* **2005**, *15*(2):125-127.

De Lange HJ, Noordoven W, Murk AJ, Lurling M, and Peeters ETHM. "Behavioural responses of Gammarus pulex (Crustacea, Amphipoda) to low concentrations of pharmaceuticals," *Aqua Toxicol* **2006**, *78*(3):209-216. http://www.sciencedirect.com/science/article/B6T4G-4JH6C6H-1/2/d1a9dceb53773c46de1470a1389af43b.

De Laurenzi V, and Melino G. "The little devil of death," Nature 2000, 406(July 13):135-136.

De Liguoro M, Cibin V, Capolongo F, Halling-Sorensen B, and Montesissa C. "Use of oxytetracycline and tylosin in intensive calf farming: evaluation of transfer to manure and soil," *Chemosphere* **2003**, *52*(1):203-212. http://www.sciencedirect.com/science/article/B6V74-48CWWNJ-6/2/147185c9a59e66537201c68bdeb0bbd3.

De Liguoro M, Poltronieri C, Capolongo F, and Montesissa C. "Use of sulfadimethoxine in intensive calf farming: evaluation of transfer to stable manure and soil," *Chemosphere* **2007**, *68*(4):671-676. http://www.sciencedirect.com/science/article/B6V74-4NBY8KK-6/2/acb858fd173d31debb35ae3286581604.

de Mes TZ, Kujawa-Roeleveld K, Zeeman G, and Lettinga G. "Anaerobic biodegradation of estrogens-hard to digest," *Water Sci Technol* **2008**, *57*(8):1177-1182. http://www.ncbi.nlm.nih.gov/pubmed/18469388.

de Mes TZD, Urmenyi AM, Poot AA, Wessling M, Mulder MHV, and Zeeman G. "Oestrogen removal from biological pretreated wastewater within decentralised sanitation and re-use concepts," *Wat Sci Technol* **2006**, *53*(9):141-150.

de Pomerai DI. "Heat-shock proteins as biomarkers of pollution," *Human Experimental Toxicol* **1996**, *15*(4):279-285.

De Rossi A, and Desiderio C. "Separation of negatively charged nonsteroidal anti-inflammatory drugs by reversed-phase capillary electrochromatography," *J Chromatogr A* **2003**, *984*(2):283-290. http://www.sciencedirect.com/science/article/B6TG8-47CXBT4-D/2/b361a49b1918198fe86f5ff44734168f.

De Ruyck H, and De Ridder H. "Determination of tetracycline antibiotics in cow's milk by liquid chromatography/tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2007**, *21*(9):1511-1520.

de Vicente A, Aviles M, Codina JC, Borrego JJ, and Romero P. "Resistance to antibiotics and heavy metals of Pseudomonas aeruginosa isolated from natural waters," *J Appl Bacteriol* **1990**, *68*(6):625-632. http://www.ncbi.nlm.nih.gov/pubmed/2118131.

de Vlaming V, Biales A, Riordan D, Markiewicz D, Holmes R, Otis P, et al. "Screening California surface waters for estrogenic endocrine disrupting chemicals (EEDC) with a juvenile rainbow trout liver vitellogenin mRNA procedure," *Sci Total Environ* **2007**, *385*(1-3):66-79. http://www.sciencedirect.com/science/article/B6V78-4P6TGYX-3/2/69a49839f455b75cab057d80c44089b7.

De Wever H, Weiss S, Reemtsma T, Vereecken J, Muller J, Knepper T, et al. "Comparison of sulfonated and other micropollutants removal in membrane bioreactor and conventional wastewater

treatment," *Wat Res* **2007**, *41*(4):935-945. http://www.sciencedirect.com/science/article/B6V73-4MRNCJX-1/2/732462b41e591eb5ecbe92fe625a4159.

de Wildt SN, Kearns GL, Leeder JS, and van den Anker JN. "Cytochrome P450 3A - Ontogeny and drug disposition," *Clin Pharmacokinetics* **1999**, *37*(6):485-505. <Go to ISI>://CCC:000084486700004.

De Witte B, Dewulf J, Demeestere K, and Van Langenhove H. "Ozonation and advanced oxidation by the peroxone process of ciprofloxacin in water," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4S8CR90-2/1/0cf63ca29831cf855bed56a378246a99.

De Zan MM, Gil García MD, Culzoni MJ, Siano RG, Goicoechea HC, and Martínez Galera M. "Solving matrix-effects exploiting the second order advantage in the resolution and determination of eight tetracycline antibiotics in effluent wastewater by modelling liquid chromatography data with multivariate curve resolution-alternating least squares and unfolded-partial least squares followed by residual bilinearization algorithms: I. Effect of signal pre-treatment," *J Chromatogr A* 2008, *1179*(2):106-114. http://www.sciencedirect.com/science/article/B6TG8-4R8MDR2-2/1/3e322dd4295b0616b3401d78673a2201.

DEA "General Questions & Answers: Can an individual return their controlled substance prescription medication to a pharmacy?," Office of Diversion Control, Drug Enforcement Administration, US Department of Justice http://www.deadiversion.usdoj.gov/faq/general.htm#pre_med.

DEA "Title 21 United States Code (USC) Controlled Substances Act," Office of Diversion Control, Drug Enforcement Administration, US Department of Justice http://www.deadiversion.usdoj.gov/21cfr/21usc/index.html.

DEA, and USEPA. "Guidelines for law enforcement for the cleanup of clandestine drug laboratories," Administration DE and Agency UEP, Drug Enforcement Administration, US Environmental Protection Agency, 2005. http://www.justice.gov/dea/resources/redbook.pdf.

DEA, USEPA, and US Coast Guard. "Guidelines for the cleanup of clandestine drug laboratories," Administration DE, Agency UEP and Guard UC, EPA540P90005, The Joint Federal Task Force of the Drug Enforcement Administration, the US Environmental Protection Agency, the US Coast Guard, 1990.

Debat V, and David P. "Mapping phenotypes: canalization, plasticity and developmental stability," *Trends Ecol Evolution* **2001**, *16*(10):555-561. http://www.sciencedirect.com/science/article/B6VJ1-43Y9JNB-T/1/461ef7375ef0a4e2a87b2ea89bcdfac7.

Deborde M, Rabouan S, Duguet JP, and Legube B. "Kinetics of Aqueous Ozone-Induced Oxidation of Some Endocrine Disruptors," *Environ Sci Technol* **2005**, *39*(16):6086-6092. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0501619.

Deborde M, Rabouan S, Gallard H, and Legube B. "Aqueous chlorination kinetics of some endocrine disruptors," *Environ Sci Technol* **2004**, *38*(21):5577-5583. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i21/abs/es040006e.html.

Debska J, Kot-Wasik A, and Namiesnik J. "Fate and analysis of pharmaceutical residues in the aquatic environment," *Crit Rev Anal Chem* **2004**, *34*(1):51-67.

http://www.ingentaconnect.com/tandf/batc/2004/00000034/00000001/art00006 and http://openurl.ingenta.com/content?genre=article&issn=1040-8347&volume=34&issue=1&spage=51&epage=67 and http://dx.doi.org/10.1080/10408340490273753

Debska J, Kot-Wasik A, and Namiesnik J. "Determination of nonsteroidal antiinflammatory drugs in water samples using liquid chromatography coupled with diode-array detector and mass spectrometry," *J Separation Sci* **2005**, *28*(17):2419-2426.

Deeb RA, Kresic N, Laugie MC, and Kavanaugh MC. "Emerging Water Contaminants: Technical, Legal and Policy Challenges," Am Geophysical Union December, 2002, Washington, DC.

Delepee R, Pouliquen H, and Le Bris H. "The bryophyte Fontinalis antipyretica Hedw. bioaccumulates oxytetracycline, flumequine and oxolinic acid in the freshwater environment," *Sci Total Environ* **2004**, *322*(1-3):243-253. http://www.sciencedirect.com/science/article/B6V78-49Y41JR-B/2/6160f2d7e0d0bc6ff4fb6575a8aa5644.

Delgado OB, Ojeda-Benitez S, and Marquez-Benavides L. "Comparative analysis of hazardous household waste in two Mexican regions," *Waste Management* **2007**, *27*(6):792-801. http://www.sciencedirect.com/science/article/B6VFR-4KB14MF-1/2/7aa47f78e088c8607ec5b3092ac3e4de.

Della Cherie E, Gref R, and Quellec P. "Stealth, nanospheres as new injectable drug carriers: a promising way?," *Med Sci* **2001**, *17*:619-626.

Della Greca M, Fiorentino A, Isidori M, Lavorgna M, Previtera L, Rubino M, et al. "Toxicity of prednisolone, dexamethasone and their photochemical derivatives on aquatic organisms," *Chemosphere* **2004**, *54*(5):629-637. http://www.sciencedirect.com/science/article/B6V74-49SFDJ7-9/2/0760779937d8ac85076b6b556bb93896.

Della Greca M, Iesce MR, Isidori M, Nardelli A, Previtera L, and Rubino M. "Phototransformation products of tamoxifen by sunlight in water. Toxicity of the drug and its derivatives on aquatic organisms," *Chemosphere* **2007**, *67*(10):1933-1939. http://www.sciencedirect.com/science/article/B6V74-4MVN007-7/2/5a3a8ef2b9f9607e97bba5f2da47fdd0.

Della Greca M, Iesce MR, Previtera L, Rubino M, and Temussi F. "A new photoproduct of the drug furosemide in aqueous media," *Environ Chem Letters* **2004**, *2*(3):155-158.

Della Greca M, Pinto G, Pistillo P, Pollio A, Previtera L, and Temussi F. "Biotransformation of ethinylestradiol by microalgae," *Chemosphere* **2008**, *70*(11):2047-2053. http://www.sciencedirect.com/science/article/B6V74-4PYR464-3/2/63a1905e0cab0f552d27ce0714226296.

Della Seta D, Minder I, Belloni V, Aloisi AM, Dessi-Fulgheri F, and Farabollini F. "Pubertal exposure to estrogenic chemicals affects behavior in juvenile and adult male rats," *Hormones and Behavior* **2006**, *50*(2):301-307. http://www.sciencedirect.com/science/article/B6WGC-4K12CDD-1/2/379c7ef3118fb88b5a0f9b8519fc6849.

DellaGreca M, Fiorentino A, Iesce MR, Isidori M, Nardelli A, Previtera L, et al. "Identification of phototransformation products of prednisone by sunlight: toxicity of the drug and its derivatives on aquatic organisms," *Environ Toxicol Chem* **2003**, *22*(3):534-539. http://dx.doi.org/10.1897%2F1551-5028%282003%29022%3C0534%3AIOPPOP%3E2.0.CO%3B2.

DellaGreca M, Iesce MR, Isidori M, Montanaro S, Previtera L, and Rubino M. "Phototransformation of amlodipine in aqueous solution: Toxicity of the drug and its photoproduct on aquatic organisms," *Internat J Photoenergy* **2007**, *Received 11 May 2007; Revised 26 July 2007; Accepted 20 September 2007:-6*.

Delorenzi A, Locatelli F, Romano A, Nahmod V, and Maldonado H. "Angiotensin II (3-8) induces long-term memory improvement in the crab Chasmagnathus," *Neurosci Lett* **1997**, *226*(3):143-146. http://www.sciencedirect.com/science/article/B6T0G-3PM7MSP-1/2/2ed0d7c31f532c4b9eb51b9a112da6c7.

Delorenzi A, and Maldonado H. "Memory enhancement by the angiotensinergic system in the crab Chasmagnathus is mediated by endogenous angiotensin II," *Neurosci Lett* **1999**, *266*(1):1-4. http://www.sciencedirect.com/science/article/B6T0G-3WRJPMH-1/2/9bfb119755147b259c9b92916efbbf3b.

DeLorenzo M, and Fleming J. "Individual and Mixture Effects of Selected Pharmaceuticals and Personal Care Products on the Marine Phytoplankton Species Dunaliella tertiolecta," *Arch Environ Contam Toxicol* **2008**, *54*(2):203-210. http://dx.doi.org/10.1007/s00244-007-9032-2.

Deluccia RJ. "Transdermal tweaking enhances drug delivery," *Pharm Formulation Qual* **2008**, *9*(7):40-42. http://www.pharmaquality.com/mag/12012007.01012008/pfq_01012008_FO2.htm.

Demoling LA, and Baath E. "No Long-Term Persistence of Bacterial Pollution-Induced Community Tolerance in Tylosin-Polluted Soil," *Environ Sci Technol* **2008**, *In press* http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es8004706.

Deng A, Himmelsbach M, Zhu Q-ZF, S., Sengl M, Buchberger W, Niessner R, et al. "Residue Analysis of the Pharmaceutical Diclofenac in Different Water Types Using ELISA and GC-MS," *Environ Sci Technol* **2003**, *37*(15):3422-3429. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i15/abs/es0341945.html.

Deng X, Rempel MA, Armstrong J, and Schlenk D. "Seasonal evaluation of reproductive status and exposure to environmental estrogens in hornyhead turbot at the municipal wastewater outfall of Orange County, CA," *Environ Toxicol* **2007**, *22*(5):464-471. http://dx.doi.org/10.1002/tox.20287.

Denny JS, Tapper MA, Schmieder PK, Hornung MW, Jensen KM, Ankley GT, et al. "Comparison of relative binding affinities of endocrine active compounds to fathead minnow and rainbow trout estrogen receptors," *Environ Toxicol Chem* **2005**, *24*(11):2948-2953. http://dx.doi.org/10.1897%2F04-595R.1.

Denslow ND, and Larkin P. "Utilizing molecular technologies for bioindicator research," *Environ Bioindicators* **2006**, *1*(1):40-59.

Department of Justice. "Drug Enforcement Administration: Preventing the accumulation of surplus controlled substances at long term care facilities," **2005**, 70 *Federal Register 25462-25466 (codified at 21 CFR §1300, §1301, §1304, §1307)* http://www.deadiversion.usdoj.gov/fed regs/rules/2005/fr0513.htm.

Department of the Environment, and Department of Drug Management and Informatics "About the environment and pharmaceuticals – a collaboration between the Department of the Environment and the Department of Drug Management and Informatics," http://www.janusinfo.se/imcms/servlet/GetDoc?meta_id=7236.

Derendorf H, Lesko LJ, Chaikin P, Colburn WA, Lee P, Miller R, et al. "Pharmacokinetic/pharmacodynamic modeling in drug research and development," *J Clin Pharmacol* **2000**, *40*(12):1399-1418. http://jcp.sagepub.com/cgi/content/abstract/40/12/1399.

Derksen JGM, Rijs GBJ, and Jongbloed RH. "Diffuse pollution of surface water by pharmaceutical products," *Wat Sci Technol* **2004**, *49*(3):213-221.

Desbrow C, Routledge EJ, Brighty GC, Sumpter JP, and Waldock M. "Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening," *Environ Sci Technol* **1998**, *32*(11):1549-1558. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1998/32/i11/abs/es9707973.html.

DeWitte B, Dewulf J, Demeestere K, Van De Vyvere V, De Wispelaere P, and Van Langenhove H. "Ozonation of Ciprofloxacin in Water: HRMS Identification of Reaction Products and Pathways," *Environ Sci Technol* **2008**, *42*(13):4889-4895. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es8000689.

Dhaliwal BS, Dolan RJ, Batts CW, Kelly JM, Smith RW, and Johnson S. "Warning: replacing NOECs with point estimates may not solve regulatory contradictions," *Environ Toxicol Chem* **1997**, *16*(3):124-126.

DHH. "Review of health issues associated with potable reuse of wastewater," Department of Health and Aged Care, RFT200/00, Canberra, Commonwealth of Australia, 2001, 324 pp. http://www.health.gov.au/internet/wcms/publishing.nsf/Content/health-publicat-document-metadata-env_water.htm/\$FILE/env_water.pdf.

Di Carlo FJ. "Transition from pharmaceutical to environmental research," *Drug Metab Rev* **1977**, *6*(2):1-2.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =608410.

Di Giulio RT, and Hinton DE. "The toxicology of fishes," CRC Press, 2008, 1096 pp. http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=TF1251&af=W1129.

Di Guardo A, Calamari D, Benfenati E, Halling-Sørensen B, Zucatto E, and Fanelli R. "Pharmaceuticals as Environmental Contaminats: Modelling Distribution of fate," in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 10, 91-102. Di Paola A, Addamo M, Augugliaro V, Garcia-Lopez E, Loddo V, Marci G, et al. "Photolytic and TiO2-assisted photodegradation of aqueous solutions of tetracycline," *Fres Environ Bull* **2004**, *13*(11B, SI):1275-1280.

Di Paola A, Addamo M, Augugliaro V, Garcia-Lopez E, Loddo V, Marci G, et al. "Photodegradation of lincomycin in aqueous solution," *Internat J Photoenergy* **2006**, *Article ID* 47418:1-6. http://www.hindawi.com/getarticle.aspx?doi=10.1155/ijp/2006/47418.

Diamond JM, and Serveiss VB. "Identifying Sources of Stress to Native Aquatic Fauna Using a Watershed Ecological Risk Assessment Framework," *Environ Sci Technol* **2001**, *35*(24):4711-4718. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0015803.

Diamond ML, Gingrich SE, and Fertuck K. "Evidence for organic film on an impervious urban surface: characterization and potential teratogenic effects," *Environ Sci Technol* **2000**, *34*(14):2900-2908.

Diaz LF, Savage GM, and Eggerth LL. "Alternatives for the treatment and disposal of healthcare wastes in developing countries," *Waste Management* **2005**, *25*(6):626-637. http://www.sciencedirect.com/science/article/B6VFR-4FSK7K9-2/2/f44c1c16ad5969a9e43982532550dc2d.

Diaz-Cruz M, and Barcelo D. "Determination of antimicrobial residues and metabolites in the aquatic environment by liquid chromatography tandem mass spectrometry," *Anal Bioanal Chem* **2006**, *386*(4):973-985.

Díaz-Cruz M, and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of antibiotics in aqueous samples," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; Amsterdam, The Netherlands, 2007, Chapter 2.1, 61-93.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Diaz-Cruz MS, and Barcelo D. "Occurrence and analysis of selected pharmaceuticals and metabolites as contaminants present in waste waters, sludge and sediments "*Emerging Organic Pollutants in Waste Waters and Sludge* **2004**, *1*(5):227-260.

Diaz-Cruz MS, and Barcelo D. "LC-MS2 trace analysis of antimicrobials in water, sediment and soil," *TrAC Trends in Anal Chem* **2005**, *24*(7):645-657. http://www.sciencedirect.com/science/article/B6V5H-4GJM3DK-2/2/471780119ae2e404c929d2d56cbe3947.

Diaz-Cruz MS, and Barcelo D. "Recent advances in LC-MS residue analysis of veterinary medicines in the terrestrial environment," *TrAC Trends in Anal Chem* **2007**, *26*(6):637-646. http://www.sciencedirect.com/science/article/B6V5H-4NJWNJJ-1/2/180ea2a03960e9add486644250b97cb6.

Díaz-Cruz MS, and Barceló D. "Trace organic chemicals contamination in ground water recharge," *Chemosphere* **2008**, 72(3):333-342. http://www.sciencedirect.com/science/article/B6V74-4S9R1V5-2/1/e1dc4b8b23c55819134947cdd2dfea2a.

Diaz-Cruz MS, de Alda MJL, Lopez R, and Barcelo D. "Determination of estrogens and progestogens by mass spectrometric techniques (GC/MS, LC/MS and LC/MS/MS)," *J Mass Spectrom* **2003**, *38*(9):917-923.

Díaz-Cruz MS, García-Galán MJ, and Barceló D. "Highly sensitive simultaneous determination of sulfonamide antibiotics and one metabolite in environmental waters by liquid chromatographyquadrupole linear ion trap-mass spectrometry," *J Chromatogr A* **2008**, *1193*(1-2):50-59. http://www.sciencedirect.com/science/article/B6TG8-4S2F5NP-6/1/8d510338b9478731f543d711f62fe8d9.

Diaz-Cruz MS, Lopez de Alda MJ, and Barcelo D. "Environmental behavior and analysis of veterinary and human drugs in soils, sediments and sludge," *TrAC Trends in Anal Chem* **2003**, *22*(6):340-351. http://www.sciencedirect.com/science/article/B6V5H-48T77WY-4/2/ffdcca6e7fdcf1e9b503af684fc765e1.

Diaz-Cruz MS, Lopez de Alda MJ, and Barcelo D. "Determination of antimicrobials in sludge from infiltration basins at two artificial recharge plants by pressurized liquid extraction-liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2006**, *1130*(1):72-82. http://www.sciencedirect.com/science/article/B6TG8-4KBDWJG-1/2/f616048ccabeb8079de8f32f6540c394.

DiCarlo M, Ruck B, and Marcus S. "How should a fever mercury thermometer be disposed of? A survey of those likely to be asked," *Pediatrics* **2002**, *109*(5):e71.

Dickerson S, and Gore A. "Estrogenic environmental endocrine-disrupting chemical effects on reproductive neuroendocrine function and dysfunction across the life cycle," *Rev Endocrine Metabolic Disorders* **2007**, 8(2):143-159. http://dx.doi.org/10.1007/s11154-007-9048-y.

Dickerson TJ, and Janda KD. "A previously undescribed chemical link between smoking and metabolic disease," *Proceed Nat Acad Sci* **2002**, *99*(23):15084-15088. http://www.pnas.org/cgi/content/abstract/99/23/15084.

Dieter HH, and Muckter H. "Regulatorische, gesund-heitliche und asthetische Bewertung sogenannter Spurenstoffe im Trinkwasser unter besonderer Beruck-sichtigung von arzneimitteln [Assessment of so called organic trace compounds in drinking water from the regulatory, health and aesthetic-quality points of view, with special consideration given to pharmaceuticals]," *Bundesgesundheitsblatt -Gesundheitsforschung - Gesundheitsschutz* **2007**, *50*(3):322-331. http://www.springerlink.com/content/q080770782373604/.

Dietrich AS. "The corporation next door: Pharmaceutical companies in community, health, and the environment in Puerto Rico " Doctoral Dissertation, Emory University, 2007. 223 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2215118 ,FM=9,SEARCH=MD.GenericSearch.

Dietrich DR, and Chou Y-J. "Ecotoxicology of musks," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 9, 156-167.

Dietrich DR, Hitzfeld BC, and O'Brien E. "Toxicology and risk assessment of pharmaceuticals," in *Organic pollutants in the water cycle*, Reemtsma T and Jekel M, Eds., Wiley-VCH Verlag GmbH & Co. KGaA, 2006, 11, http://w3.ub.uni-konstanz.de/v13/volltexte/2008/5100//pdf/Dietrich_2006_Book_Chapter.pdf

http://www3.interscience.wiley.com/cgi-bin/bookhome/112729019/.

Dietrich DR, and Kehrer JP. "Editorial: The toxicology of musk fragrances," *Toxicol Lett* **1999**, *111*:1-4.

Dietrich DR, Webb SF, and Petry T. "Hot spot pollutants: pharmaceuticals in the environment," *Toxicol Lett* **2002**, *131*(1-2):1-3. http://www.sciencedirect.com/science/article/B6TCR-45DF9K0-4/2/d017179b4816482ffe9ffbfab127549d.

Dietz T, and Stern PC, Eds., "Public participation in environmental assessment and decision making," 2008, pp.

http://books.nap.edu/catalog.php?record_id=12434&utm_medium=etmail&utm_source=National%20Academies%20Press &utm_campaign=New+from+NAP+8.26.08&utm_content=Downloader&utm_term=.

Dietze JE, Scribner EA, Meyer MT, and Kolpin DW. "Occurrence of antibiotics in water from 13 fish hatcheries," 2001-2003 Internat J Environ Anal Chem 2005, 85(15):1141-1152.

Diez S, Jover E, Albaiges J, and Bayona JM. "Occurrence and degradation of butyltins and wastewater marker compounds in sediments from Barcelona harbor, Spain," *Environ Internat* **2006**, *32*(7):858-865. http://www.sciencedirect.com/science/article/B6V7X-4K8SBY7-1/2/dfd4d416989056b35f3e546842b5fe70.

Diez-Gonzalez F, Callaway TR, and Russell JB. "Grain feeding and the dissemination of acid-resistant Escherichia coli from cattle," *Science* **1998**, *281*(5383):1666-1668.

DiFrancesco AM, Chiu PC, Standley LJ, Allen HE, and Salvito DT. "Dissipation of Fragrance Materials in Sludge-Amended Soils," *Environ Sci Technol* **2004**, *38*(1):194-201. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es034618v.

Dignac MF, Ginestet P, Rybacki D, Bruchet A, Urbain V, and Scribe P. "Fate of wastewater organic pollution during activated sludge treatment: nature of residual organic matter," *Wat Res* **2000**, *34*(17):4185-4194. http://www.sciencedirect.com/science/article/B6V73-41C2PK6-9/2/58dc55411db888ca562036bfcc1cff07.

Dillabough EG. "Recent initiatives affecting OTC drug regulation and marketing," *Pharm Formulation Qual* **2000**, (August/September):14-16.

Dillon KS, Corbett DR, Chanton JP, Burnett WC, and Furbish DJ. "The use of sulfur hexafluoride (SF6) as a tracer of septic tank effluent in the Florida Keys," *J Hydrol* **1999**, *220*:129-140. http://www.ingentaconnect.com/content/els/00221694/1999/00000220/0000003/art00073 http://dx.doi.org/10.1016/S0022-1694(99)00073-6.

Dinan L, Bourne P, Whiting P, Dhadialla TS, and Hutchinson TH. "Screening of environmental contaminants for ecdysteroid agonist and antagonist activity using the Drosophila melanogaster B(II) cell in vitro assay," *Environ Toxicol Chem* **2001**, *20*(9):2038-2046.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =11521832.

Ding J, Drewes CD, and Hsu WH. "Behavioral effects of ivermectin in a freshwater oligochaete, lumbriculus variegatus," *Environ Toxicol Chem* **2001**, *20*(7):1584-1590. http://dx.doi.org/10.1897%2F1551-5028%282001%29020%3C1584%3ABEOIIA%3E2.0.CO%3B2.

Ding WH, and Chiang CC. "Derivatization procedures for the detection of estrogenic chemicals by gas chromatography/mass spectrometry," *Rapid Commun Mass Spectrom* **2003**, *17*(1):56-63.

Dirtu AC, Roosens L, Geens T, Gheorghe A, Neels H, and Covaci A. "Simultaneous determination of bisphenol A, triclosan, and tetrabromobisphenol A in human serum using solid-phase extraction and gas chromatography-electron capture negative-ionization mass spectrometry," *Anal Bioanal Chem* **2008**, *391*(4):1175-1181. http://www.springerlink.com/content/b8m327g254k24180/.

Dizer H, Fischer B, Sepulveda I, Loffredo E, Senesi N, Santana F, et al. "Estrogenic effect of leachates and soil extracts from lysimeters spiked with sewage sludge and reference endocrine disrupters," *Environ Toxicol Chem* **2002**, *17*(2):105-112.

Djerassi D. "Sunblock," Today's Chemist at Work 1999:9 pp.

Długołęcka M. "Pharmaceutical compounds; a new challenge for wastewater treatment plants," KTH Land and Water Resources Engineering, Sweden, 2007. 42 pp. http://www.diva-portal.org/diva/getDocument?urn_nbn_se_kth_diva-4347-2__fulltext.pdf.

Długołęcka M, Dahlberg AG, and Płaza E. "'Low concentrations of high priority' - Pharmaceutical and personal care products (PPCPs); occurrence and removal at wastewater treatment plant," *Vatten* **2006**, *62*(2):139-148.

Długołęcka M, Płaza E, and Hultman B. "Behaviour of carbamazepine, metoprolol and naproxen in membrane bioreactor (MBR) activated sludge culture and after granular activated carbon (GAC) filtration," *Environ Sci Technol* **2007**, *In Press*.

Długołęcka M, Płaza E, Trela J, Dahlberg AG, and Hultman B. "Application of Oxygen Uptake Rate (OUR) tests for study of Metoprolol inhibitory effects on activated sludge," IWA World Water Congress & Exhibition, Beijing, China, 10-14 September, 2006.

Dobson CM. "Chemical space and biology," Nature 2004, 432:824-828.

Documed "Compendium Suisse des Médicaments (Swiss Pharmaceutical Compendium)." Documed SA, Basel, Switzerland 2008. http://www.kompendium.ch/Search.aspx?lang=fr

Dodd JS, and Wang L. "Kicking out drug resistance," Chem Eng News 2004:6.

Dodd MC, Buffle MO, and vonGunten U. "Oxidation of Antibacterial Molecules by Aqueous Ozone: Moiety-Specific Reaction Kinetics and Application to Ozone-Based Wastewater Treatment," *Environ Sci Technol* **2006**, *40*(6):1969-1977.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es051369x.

Dodd MC, and Huang CH. "Transformation of the antibacterial agent sulfamethoxazole in reactions with chlorine: Kinetics mechanisms, and pathways," *Environ Sci Technol* **2004**, *38*(21):5607-5615. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i21/abs/es035225z.html.

Dodd MC, and Huang CH. "Aqueous chlorination of the antibacterial agent trimethoprim: Reaction kinetics and pathways," *Wat Res* **2007**, *41*(3):647-655.

Dodd MC, Shah AD, Von Gunten U, and Huang C-H. "Interactions of fluoroquinolone antibacterial agents with aqueous chlorine: reaction kinetics, mechanisms, and transformation pathways," *Environ Sci Technol* **2005**, *39*(18):7065-7076. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2005/39/i18/html/es050054e.html.

Doerr-MacEwen NA. "The Management of Human Pharmaceuticals in the Environment," PhD Planning, University of Waterloo, Waterloo, Ontario, 2007. 267 pp. http://uwspace.uwaterloo.ca/bitstream/10012/2751/1/Nora%20PhD%20thesis.pdf.

Doerr-MacEwen NA, and Haight ME. "Tailoring the precautionary principle to pharmaceuticals in the environment: accounting for experts' concerns " in *Sustainable development and planning II*, Kungolos AG, Brebbia CA and Beriatos E, Eds., WIT Press; Southampton, 2005, 281-292. http://library.witpress.com/pages/PaperInfo.asp?PaperID=15530.

Doerr-MacEwen NA, and Haight ME. "Expert Stakeholders' Views on the Management of Human Pharmaceuticals in the Environment," *Environ Management* **2006**, *38*(5):853–866.

Dojmi de Delupis G, Macri A, Civitareale C, and Migliore L. "Antibiotics of zootechnical use: effects of acute high and low dose contamination on Daphnia magna straus," *Aqua Toxicol* **1992**, 22:53-59. http://hdl.handle.net/2198/-1120

Dokianakis SN, Kornaros ME, and Lyberatos G. "On the effect of pharmaceuticals on bacterial nitrite oxidation," *Wat Sci Technol* **2004**, *50*(5):341-346.

Dold P. "Modelling of pharamaceutical fate," 2006, pp.

Doll TE, and Frimmel FH. "Fate of pharmaceuticals--photodegradation by simulated solar UV-light," *Chemosphere* **2003**, *52*(10):1757-1769. http://www.sciencedirect.com/science/article/B6V74-48XCC06-1/2/e85f4786698ab757bafaadfdf69b0630.

Doll TE, and Frimmel FH. "Kinetic study of photocatalytic degradation of carbamazepine, clofibric acid, iomeprol and iopromide assisted by different TiO2 materials--determination of intermediates and reaction pathways," *Wat Res* **2004**, *38*(4):955-964. http://www.sciencedirect.com/science/article/B6V73-4BFXP6P-1/2/778a5e98102ae5f75f34e665df60d3d3.

Doll TE, and Frimmel FH. "Cross-flow microfiltration with periodical back-washing for photocatalytic degradation of pharmaceutical and diagnostic residues-evaluation of the long-term stability of the photocatalytic activity of TiO2," *Wat Res* **2005**, *39*(5):847-854. http://www.sciencedirect.com/science/article/B6V73-4FD13CK-1/2/1e9523ef498e9039a476a681aeff7945. Doll TE, and Frimmel FH. "Removal of selected persistent organic pollutants by heterogeneous photocatalysis in water," *Catalysis Today* **2005**, *101*(3-4):195-202. http://www.sciencedirect.com/science/article/B6TFG-4FWKDV6-2/2/28864bd76ecdce6d3305d165ac5a01b3.

Doll TE, and Frimmel FH. "Photocatalytic degradation of carbamazepine, clofibric acid and iomeprol with P25 and Hombikat UV100 in the presence of natural organic matter (NOM) and other organic water constituents," *Wat Res* **2005**, *39*(2-3):403-411. http://www.sciencedirect.com/science/article/B6V73-4DTKJJT-1/2/c4b55d7794846185781076bd0de0f527.

Dolliver H, and Gupta S. "Antibiotic losses in leaching and surface runoff from manure-amended agricultural land," *J Environ Qual* **2008**, *37*(3):1227-1237. http://jeq.scijournals.org/cgi/content/abstract/37/3/1227.

Dolliver H, Gupta S, and Noll S. "Antibiotic degradation during manure composting," *J Environ Qual* **2008**, *37*(3):1245-1253. http://jeq.scijournals.org/cgi/content/abstract/37/3/1245.

Dolliver H, Kumar K, and Gupta S. "Sulfamethazine Uptake by Plants from Manure-Amended Soil," *J Environ Qual* **2007**, *36*(4):1224-1230. http://jeq.scijournals.org/cgi/content/abstract/joenq;36/4/1224.

Dolliver H, Kumar K, Gupta S, and Singh A. "Application of Enzyme-Linked Immunosorbent Assay Analysis for Determination of Monensin in Environmental Samples," *J Environ Qual* **2008**, *37*(3):1220-1226. http://jeq.scijournals.org/cgi/content/abstract/joenq;37/3/1220.

Dolliver HAS, and Gupta SC. "Antibiotic Losses from Unprotected Manure Stockpiles," *J Environ Qual* **2008**, *37*(3):1238-1244. http://jeq.scijournals.org/cgi/content/abstract/joenq;37/3/1238.

Dominguez E, Narvaez A, and Gorton L. "Non-affinity sensing technology: the exploitation of biocatalytic events for environmental analysis," in *Biosensors and modern biospecific analytical techniques, XLIV - Comprehensive analytical chemistry*, Gorton L, Ed., Elsevier; Amsterdam, The Netherlands, 2005, Chapter 10, 429-537. http://www.sciencedirect.com/science/article/B7P66-4HV66KD-G/2/cea7aa4ca644401bbc191de1955521d6.

Donald T. "Acne medication may affect serotonin levels," *Pharm Formulation Qual* **2008**, *9*(7):12-13. http://www.pharmaquality.com/pfq_news_01_2008_001.htm.

Donaldson M, and Hallelujah Acres Foundation. "Water - The choice of long-term health," 2007, 20 pp. http://www.hacres.com/diet/research/waterRevision.pdf.

Donnelly K, Dorau T, Koslow M, and Lorenz S. "Valuing Water - A Globally Sustainable Approach for the Pharmaceutical Industry," Masters Project, University of Michigan, School of Natural Resources and Environment, Ann Arbor, 2008. 111 pp. http://deepblue.lib.umich.edu/handle/2027.42/58622.

Dorabawila N, and Gupta G. "Endocrine disrupter--estradiol--in Chesapeake Bay tributaries," *J Haz Mat* **2005**, *120*(1-3):67-71. http://www.sciencedirect.com/science/article/B6TGF-4FJ5XM8-1/1/7285e624331c6035504288a9c95f5fb0.

Dordio AV, Teimao J, Ramalho I, Carvalho AJP, and Candeias AJE. "Selection of a support matrix for the removal of some phenoxyacetic compounds in constructed wetlands systems," Sci Total Environ 2007, 380(1-3):237-246. http://www.sciencedirect.com/science/article/B6V78-4NBR8HW-1/2/f7e231fa1e0c30637142de977f38d333.

Dorfman M. "Swimming in sewage - The Growing Problem of Sewage Pollution and How the Bush Administration Is Putting Our Health and Environment at Risk," Natural Resources Defense Council, Environmental Integrity Project, 2004, 82 pp.

http://www.reefrelief.org/scientificstudies/swimminginsewage.pdf.

Dorne JLCM, Skinner L, Frampton GK, Spurgeon DJ, and Ragas AMJ. "Human and environmental risk assessment of pharmaceuticals: differences, similarities, lessons from toxicology," Anal Bioanal Chem 2007, 387(4):1259-1268.

Dorosz P. "Guide Pratique des Médicaments Dorosz 2007," 2007, 27th ed., 1984 pp.

dos Santos LF, Defrenne L, and Krebs-Brown A. "Comparison of three microbial assay procedures for measuring toxicity of chemical compounds: ToxAlert(R)10, CellSense and Biolog MT2 microplates," Anal Chimica Acta 2002, 456(1):41-54. http://www.sciencedirect.com/science/article/B6TF4-45GK86K-3/2/47fba4c42323dc2e2ec06964037f2316.

dos Santos LM, Spicq A, New AP, Lo Biundo G, Wolff JC, and Edwards A. "Aerobic biotransformation of 4-fluorocinnamic acid to 4-fluorobenzoic acid," Biodegradation 2001, 12(1):23-29. http://www.springerlink.com/content/u544x50023210482/.

dos Santos LMF, and Lo Biundo G. "Treatment of pharmaceutical industry process wastewater using the extractive membrane bioreactor," *Environ Progress* **1999**, *18*(1):34-39.

Dove A. "Drugs down the drain," Nature Med 2006, 12(4):376-377.

Dowling VA, and Sheehan D. "Proteomics as a route to identification of toxicity targets in environmental toxicology," Proteomics 2006, 6(20):5597-5604.

Doyle CJ, and Lim RP. "Sexual behavior and impregnation success of adult male mosquitofish following exposure to 17[beta]-estradiol," Ecotoxicol Environ Safety 2005, 61(3):392-397. http://www.sciencedirect.com/science/article/B6WDM-4F53N4X-1/2/7d94424508f7f55411ed0afa172a2e9b.

Doyle WR, and Schmitter R. "Overview of Clandestine Methamphetamine Laboratories," USEPA 24 April 2008. video available: http://r4intranet.epa.gov/waste/videos/methlabs.htm.

Draisci R, Marchiafava C, Ferretti E, Palleschi L, Catellani G, and Anastasio A. "Evaluation of musk contamination of freshwater fish in Italy by accelerated solvent extraction and gas chromatography with mass spectrometric detection," J Chromatogr A 1998, 814(1-2):187-197. http://www.sciencedirect.com/science/article/B6TG8-3T88BJM-K/2/392f2c1edbb24f50e608fe7013cbc372.

Drewes JE. "Removal of pharmaceuticals in wastewater and drinking water treatments - Removal of pharmaceutical residues during wastewater treatment," in Analysis, Fate and Removal of

Pharmaceuticals in the Water Cycle, Petrovic M and Barcelo D, Eds., Elsevier Science; Wilson & Wilson's Comprehensive Analytical Chemistry, 2007, 4.1, 427-429. http://www.elsevier.com/wps/find/bookdescription.cws home/712147/description#description.

Drewes JE, Fox P, and Jekel M. "Occurrence of iodinated X-ray contrast media in domestic effluents and their fate during indirect potable reuse," *J Environ Sci Health Part A Tox/Haz Substances Environ Eng* **2001**, *A36*(9):1633-1645. http://cat.inist.fr/?aModele=afficheN&cpsidt=14176378.

Drewes JE, Heberer T, Rauch T, and Reddersen K. "Fate of pharmaceuticals during ground water recharge," *Ground Wat Monit Remediation* **2003**, *23*(3):64-72.

Drewes JE, Heberer T, and Reddersen K. "Fate of pharmaceuticals during indirect potable reuse," *Wat Sci Technol* **2002**, *46*:73-80.

Drewes JE, Hemming J, Ladenburger SJ, Schauer J, and Sonzogni W. "An assessment of endocrine disrupting activity changes during wastewater treatment through the use of bioassays and chemical measurements," *Wat Environ Res* **2005**, *77*(1):12-23.

Drewes JE, Hoppe C, and Jennings T. "Fate and transport of N-nitrosamines under conditions simulating full-scale groundwater recharge operations," *Wat Environ Res* **2006**, *78*(13):2466-2473.

Drewes JE, Reinhard M, and Fox P. "Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water," *Wat Res* **2003**, *37*(15):3612-3621. http://www.sciencedirect.com/science/article/B6V73-48PD4P8-5/2/d1765d9de0b5d880d934bd2e925d8603.

Drewes JE, and Shore LS. "Concerns about pharamaceuticals in water reuse, groundwater recharge, and animal waste," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series, 2001, Chapter 12, 206-228.

Drews J. "Drug discovery: A historical perspective," *Science* **2000**, *287*(5460):1960-1964. http://www.ncbi.nlm.nih.gov/pubmed/10720314.

Drillia P, Dokianakis SN, Fountoulakis MS, Kornaros M, Stamatelatou K, and Lyberatos G. "On the occasional biodegradation of pharmaceuticals in the activated sludge process: The example of the antibiotic sulfamethoxazole," *J Hazardous Mat* **2005**, *122*(3):259-265. http://www.sciencedirect.com/science/article/B6TGF-4FWV2NV-1/2/8ec5bfdf3f8be14979f9553c37591f12.

Drillia P, Stamatelatou K, and Lyberatos G. "Fate and mobility of pharmaceuticals in solid matrices," *Chemosphere* **2005**, *60*(8):1034-1044. http://www.sciencedirect.com/science/article/B6V74-4FNDRXS-1/1/c82298b8ea73a11c3c4845c284ece85d.

Drug Bank "This project is supported by <u>Genome Alberta <http://genomealberta.ca></u> & <u>Genome</u> <u>Canada <http://genomecanada.ca></u>, a private, non-profit corporation whose mandate is to develop and implement a national strategy in genomics and proteomics research for the benefit of all Canadians. For this purpose, it has received \$600 million in funding from the Canadian government. This project is also supported in part by <u>GenomeQuest, Inc. <http://www.genomequest.com/></u>, an enterprise genomic information company serving the life science community.," http://www.drugbank.ca/.

DrugMetZ DB "A database on human drug metabolizing Cytochromes " 2008. http://www.bicpu.edu.in/DrugMetZDB/index.htm.

Dsikowitzky L, Schwarzbauer J, Kronimus A, and Littke R. "The anthropogenic contribution to the organic load of the Lippe River (Germany). Part I: qualitative characterisation of low-molecular weight organic compounds," *Chemosphere* **2004**, *57*(10):1275-1288. http://www.sciencedirect.com/science/article/B6V74-4DN8RHT-5/2/ba916bfe0b56082c7a32141fd4168de3.

Dsikowitzky L, Schwarzbauer J, and Littke R. "Distribution of polycyclic musks in water and particulate matter of the Lippe River (Germany)," *Organic Geochem* **2002**, *33*(12):1747-1758.

Dsikowitzky L, Schwarzbauer J, and Littke R. "The anthropogenic contribution to the organic load of the Lippe River (Germany). Part II: quantification of specific organic contaminants," *Chemosphere* **2004**, *57*(10):1289-1300. http://www.sciencedirect.com/science/article/B6V74-4DJ48KP-4/2/f4750c4f50eb7efd30f07cbde21f257f.

Duarte ICS, Oliveira LL, Buzzini AP, Adorno MAT, and Varesche MBA. "Development of a method by HPLC to determine LAS and its application in anaerobic reactors," *J Brazilian Chem Soc* **2006**, *17*(7):1360-1367.

Dubin CH. "Nothing to sneeze at: Often overlooked and long neglected, the nose has become one of the most viable drug delivery pathways for treating everything from the flu to erectile dysfunction," *Pharm Formulation Qual* **2002**, *4*(3):41-44.

Duedahl-Olesen L, Cederberg T, Pedersen KH, and Hojgard A. "Synthetic musk fragrances in trout from Danish fish farms and human milk," *Chemosphere* **2005**, *61*(3):422-431. http://www.sciencedirect.com/science/article/B6V74-4FPDPWK-6/2/3ca310a189bf74ebdcdb00478f57a511.

Dufresne G, Fouquet A, Forsyth D, and Tittlemier SA. "Multiresidue determination of quinolone and fluoroquinolone antibiotics in fish and shrimp by liquid chromatography/tandem mass spectrometry," *J* AOAC Internat **2007**, 90(2):604-612.

Dulin R, Silberstein N, Bonnin M, and Saux M-C. "Comparison and practical guidelines of selective serotonin reuptake inhibitors [Comparaison et critères de choix des inhibiteurs sélectifs de la recapture de la sérotonine]," *J de Pharmacie Clinique* **2002**, *21*(1):39-46.

Dunford R, Salinaro A, Cai L, Serpone N, Horikoshi S, Hidaka H, et al. "Chemical oxidation and DNA damage catalysed by inorganic sunscreen ingredients," *FEBS Lett* **1997**, *418*(1-2):87-90. http://www.sciencedirect.com/science/article/B6T36-3RFR580-P/2/a38a9a7442fba6ec8e075d99df9397b6.

Dunn PJ, Galvin S, and Hettenbach K. "The development of an environmentally benign synthesis of sildenafil citrate (Viagra) and its assessment by Green Chemistry metrics," *Green Chem* **2004**, *6*(1):43-48. http://cat.inist.fr/?aModele=afficheN&cpsidt=15575309.

Duong HA, Pham NH, Nguyen HT, Hoang TT, Pham HV, Pham VC, et al. "Occurrence, fate and antibiotic resistance of fluoroquinolone antibacterials in hospital wastewaters in Hanoi, Vietnam," *Chemosphere* **2008**, *72*(6):968-973. http://www.sciencedirect.com/science/article/B6V74-4SHFSG7-3/1/a8ed66919a3966883b4be1fdcb37f706.

Dupont B. "An epidemiological review of systemic fungal infections," *J De Mycologie Medicale* **2002**, *12*:163-173.

Durhan EJ, Lambright CS, Makynen EA, Lazorchak J, Hartig PC, Wilson VS, et al. "Identification of metabolites of trenbolone acetate in androgenic runoff from a beef feedlot," *Environ Health Perspect* **2006**, *114*(1):65-68. <Go to ISI>://CCC:000245475500010.

Dussault E, Balakrishnan V, Sverko E, Solomon K, and Sibley P. "Toxicity of Human Pharmaceutical and Personal Care Products to Benthic Invertebrates," *Environ Toxicol Chem* **2007**, *27*(1):425-432. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F07-354.

Duty SM, Ackerman RM, Calafat AM, and Hauser R. "Personal care product use predicts urinary concentrations of some phthalate monoesters," *Environ Health Perspect* **2005**, *113*(11):1530-1535.

Dvorak J, Hajkova R, Matysova L, Novakova L, Koupparis MA, and Solich P. "Simultaneous HPLC determination of ketoprofen and its degradation products in the presence of preservatives in pharmaceuticals," *J Pharmaceutical Biomed Anal* **2004**, *36*(3):625-629. http://www.sciencedirect.com/science/article/B6TGX-4D5KYFJ-4/2/16420437f900d7d88782f0a8d5aa1b57.

Dye C, Kylin H, and Schlabach M. "Sucralose – a new persistent pollutant in the environment?," Norwegian Institute for Air Research (NILU) 2007. http://www.nilu.no/niluweb/leverfil.cfm/pp_08_2007_cd.pdf?id=22461&type=6.

Dyer SD, Brooks GL, Dickson KL, Sanders BM, and Zimmerman EG. "Synthesis and accumulation of stress proteins in tissues of arsenite-exposed fathead minnows (pimephales promelas)," *Environ Toxicol Chem* **1993**, *12*(5):913-924. http://dx.doi.org/10.1897%2F1552-8618%281993%2912%5B913%3ASAAOSP%5D2.0.CO%3B2.

Dynes JJ, Lawrence JR, Korber DR, Swerhone GDW, Leppard GG, and Hitchcock AP. "Quantitative mapping of chlorhexidine in natural river biofilms," *Sci Total Environ* **2006**, *369*(1-3):369-383. http://www.sciencedirect.com/science/article/B6V78-4K5SSYS-2/2/3f33522dcf5e856d016c448197ea9b5a.

Dzialowski EM, Turner PK, and Brooks BW. "Physiological and reproductive effects of beta adrenergic receptor antagonists in Daphnia magna," *Arch Environ Contam Toxicol* **2006**, *50*(4):503-510.

Ebinghaus R, and Xie Z. "Occurrence and air/sea-exchange of novel organic pollutants in the marine environment," *J de Physique* **2006**, *139*:211-237.

Ebrahimzadeh H, Yamini Y, Gholizade A, Sedighi A, and Kasraee S. "Determination of fentanyl in biological and water samples using single-drop liquid-liquid-liquid microextraction coupled with high

performance liquid chromatography," *Anal Chim Acta* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TF4-4T5CGW2-2/2/065efbae08bbc04f6ed6607c2ace7d18.

Eckel WP. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in US streams, 1999-2000: A national reconnaissance'," *Environ Sci Technol* **2002**, *36*(18):4003. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i18/abs/es020136s.html.

Eckel WP, Ross B, and Isensee RK. "Pentobarbital found in ground water," *Ground Wat* **1993**, *31*(5):801-804. http://direct.bl.uk/bld/PlaceOrder.do?UIN=009608874&ETOC=EN&from=searchengine.

Eckerman I, and Martineus J-C. "Medicines and the environment - what do we know today?," Gray M, Ed., Stockholm, Sweden, 1997, 26 pp. http://www.dnsy.se/ upload/lfm/medicines%20and%20the%20environment.pdf.

Edhlund BL, Arnold WA, and McNeill K. "Aquatic Photochemistry of Nitrofuran Antibiotics," *Environ Sci Technol* **2006**, *40*(17):5422-5427. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0606778.

Edwards H, Kostrzewa M, and Looby G. "Environmental Research Brief: Pollution prevention assessment for a manufacturer of pharmaceuticals," EPA/600/S-95/030, USEPA, 1995. http://www.osti.gov/servlets/purl/111855-tiXJut/webviewable/.

EEA, and ENEP. "Chemicals in the European Environment: Low Doses, High Stakes?," European Environment Agency, Copenhagen, Denmark, 1999. http://www.unep.ch/roe/publications/assessment/02_chemicals.pdf.

Efroymson RA, Jones DS, and Gold AJ. "An Ecological Risk Assessment Framework for Effects of Onsite Wastewater Treatment Systems and Other Localized Sources of Nutrients on Aquatic Ecosystems," *Human Ecolog Risk Assessment* **2007**, *13*(3):574 - 614. http://www.informaworld.com/10.1080/10807030701341142.

Efstathiou CE. "On the sampling variance of ultra-dilute solutions," *Talanta* **2000**, *52*(4):711-715. http://www.sciencedirect.com/science/article/B6THP-4118GCK-G/2/3115f598d27dc6548658b5beeff53c91.

Eganhouse RP, and Sherblom PM. "Anthropogenic organic contaminants in the effluent of a combined sewer overflow: impact on Boston Harbor," *Mar Environ Res* **2001**, *51*(1):51-74. http://www.sciencedirect.com/science/article/B6V7H-41DHWYK-4/2/bf0d548ecb50a9907796de2d70d2e967.

Eggen RIL, Behra R, Burkhardt-Holm P, Escher BI, and Schweigert N. "Challenges in ecotoxicology," *Environ Sci Technol* **2004**, *38*(3):58A-64A.

Eguchi K, Nagase H, Ozawa M, Endoh YS, Goto K, Hirata K, et al. "Evaluation of antimicrobial agents for veterinary use in the ecotoxicity test using microalgae," *Chemosphere* **2004**, *57*(11):1733-1738. http://www.sciencedirect.com/science/article/B6V74-4DB56K4-D/2/9a765389540c2637fdcdc181703ccb68.

Ehleringer JR, Casale J, Cooper DA, and Lott MJ. "Sourcing drugs with stable isotopes," ONDCP Symposium, San Diego, Washington, DC 2001, 12. http://ecophys.biology.utah.edu/Labfolks/ehleringer/publications.htm.

Ehleringer JR, Casale J, Cooper DA, Lott MJ, and Ford VL. "Tracing origins of cocaine with stable isotopes," *Nature* **2000**, *408*:311-312.

Ehrlich M, Trittler R, Daschner FD, and Kummerer K. "A new and rapid method for monitoring the new oxazolidinone antibiotic linezolid in serum and urine by high performance liquid chromatography-integrated sample preparation," *J Chromatogr B: Biomed Sci Applications* **2001**, *755*(1-2):373-377. http://www.sciencedirect.com/science/article/B6TG9-42T4DX1-1K/2/9a1d2beddcb48ae6efb254271cc1e056.

Eichhorn P, and Aga DS. "Identification of a photooxygenation product of chlortetracycline in hog lagoons using LC/ESI-ion trap-MS and LC/ESI-time-of-flight-MS," *Anal Chem* **2004**, *76*(20):6002-6011.

Eichhorn P, Ferguson PL, Perez S, and Aga DS. "Application of Ion Trap-MS with H/D Exchange and QqTOF-MS in the Identification of Microbial Degradates of Trimethoprim in Nitrifying Activated Sludge," *Anal Chem* **2005**, 77(13):4176-4184. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/ac050141p.

Eichorst S, Pfeifer A, Magill NG, and Tischler ML. "Antibiotic resistance among bacteria isolated from wild populations of resident Canada Geese in a suburban setting," Am Society for Microbiology 99th Annual Meeting, Chicago, IL, 1999.

Einsle T, Paschke H, Bruns K, Schrader S, Popp P, and Moeder M. "Membrane-assisted liquid-liquid extraction coupled with gas chromatography-mass spectrometry for determination of selected polycyclic musk compounds and drugs in water samples," *J Chromatogr A* **2006**, *1124*(1-2):196-204. http://www.sciencedirect.com/science/article/B6TG8-4KGPPG6-2/2/630333b0b4da5638a73a2d2979daf1c5.

Eisenbrand G, Pool-Zobel B, Baker V, Balls M, Blaauboer BJ, Boobis A, et al. "Methods of in vitro toxicology," *Food Chem Toxicol* **2002**, *40*(2-3):193-236. http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=ShowDetailView&TermToSearch=118 93398.

Eisler R. "Gold concentrations in abiotic materials, plants, and animals: A synoptic review," *Environ Monit Assess* **2004**, *90*:73-88.

Eitel DF. "Managing medical waste technology: how US hospitals adapted to change," *Internat J Technol Manage* **1998**, *15*(3-5):402-420. http://inderscience.metapress.com/app/home/contribution.asp?referrer=parent&backto=issue,13,20;jou rnal,92,103;linkingpublicationresults,1:110891,1.

Ekedahl A. "Statistics on local drug sales: A tool to identify problem areas and to follow effects of education on drug use," Malmö University Hospital, Lund University, Department of Community Medicine, Lund, Sweden, 2002. 54 pp. http://www.lub.lu.se/luft/diss/med638.pdf.

Ekedahl A. "Reasons why medicines are returned to Swedish pharmacies unused," *Pharm World Sci* **2006**, *28*(6):352-358. http://dx.doi.org/10.1007/s11096-006-9055-1.

Ekedahl A, Wergeman L, and Rydberg T. "Unused drugs in Sweden measured by returns to pharmacies," *J Social Admin Pharm* **2003**, *20*(1):26-31. http://journals.indexcopernicus.com/abstracted.php?level=5&icid=564196 http://direct.bl.uk/bld/PlaceOrder.do?UIN=127514811&ETOC=RN&from=searchengine.

Ekman D, Teng Q, Villeneuve D, Kahl M, Jensen K, Durhan E, et al. "Investigating compensation and recovery of fathead minnow (Pimephales promelas) exposed to 17α-ethynylestradiol with metabolite profiling," *Environ Sci Technol* **2008**, *42*(11):4188-4194. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2008/42/i11/abs/es8000618.html.

El Amari EB, Chamot E, Auckenthaler R, Pechere JC, and Van Delden C. "Influence of previous exposure to antibiotic therapy on the susceptibility pattern of Pseudomonas aeruginosa bacteremic isolates " *Clin Infect Dis* **2001**, *33*:1859-1864.

el Kouni MH. "Potential chemotherapeutic targets in the purine metabolism of parasites," *Pharmacol Therapeut* **2003**, *99*:283-309.

El-Baqary RI, Razek TMA, and Ramadan AE. "Chlorodesmethyldiazepam Fluorimetric Determination in Pharmaceutical Formulations and in Aqueous Media," *Anal Lett* **2007**, *40*(12):2295 - 2300. http://www.informaworld.com/10.1080/00032710701576015.

Elbaz-Poulichet F, Seidel J-L, and Othoniel C. "Occurrence of an anthropogenic gadolinium anomaly in river and coastal waters of Southern France," *Wat Res* **2002**, *36*(4):1102-1105. http://www.sciencedirect.com/science/article/B6V73-44SH461-16/2/561bd733bf65307d61495bf024107af4.

Elisseeff J, McIntosh W, Anseth K, Riley S, Ragan P, and Langer R. "Photoencapsulation of chondrocytes in poly(ethylene oxide)-based semi-interpenetrating networks," *J Biomedical Materials Research* **2000**, *51*:164-171.

Ellis JB. "Pharmaceutical and personal care products (PPCPs) in urban receiving waters," *Environ Pollut* **2006**, *144*(1):184-189. http://www.sciencedirect.com/science/article/B6VB5-4JBGJB3-1/1/a98930c8d2995ed33fb377d5eb6baa18.

Ellis RJ, and Pinheiro TJT. "Danger - misfolding proteins," Nature 2002, 416: 483-484.

Elvers KT, and Wright SJL. "Antibacterial activity of the anti-inflammatory compound ibuprofen," *Lett Appl Microbiol* **1995**, *20*(2):82-84. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1472-765X.1995.tb01291.x.

Emara S, El-Gindy A, El-Shorbagi A-N, and Hadad G. "Utility of copper(II) oxide as a packed reactor in flow injection assembly for rapid analysis of some angiotensin converting enzyme inhibitors," *Anal Chimica Acta* **2003**, *489*(1):115-123. http://www.sciencedirect.com/science/article/B6TF4-492VT89-7/2/4d4aa85d6484d09bc453694028468391.

Ember LR. "Raising the bar for quality drugs - independent U.S. Pharmacopeia sets legal standards enforceable by FDA," *Chem Eng News* **2001**, *79*(12):26-32.

Emblidge JP, and DeLorenzo ME. "Preliminary risk assessment of the lipid-regulating pharmaceutical clofibric acid, for three estuarine species," *Environ Res* **2006**, *100*(2):216-226. http://www.sciencedirect.com/science/article/B6WDS-4G1V679-4/2/352fd5fffff291d5842ad0d9552fd04f.

EMEA. "The European Agency for the Evaluation of Medicinal Products: Veterinary Medicines Evaluation Unit, Environmental Risk Assessment for Veterinary Medical Products other than GMO-Containing and Immunological Products," 1997, pp.

EMEA. "Trimethroprim summary report," 1997, pp.

EMEA European Medicine Agency. "Guidelines on the environmental risk assessment of medicinal products for human use," 2006, pp. http://www.emea.eu.int/pdfs/human/swp/444700en.pdf.

EMEA European Medicines Agengy. "General considerations for clinical trials ICH Harmonised Tripartite Guideline," CPMP/ICH/291/95, Canary Wharf, London, England, March, 1998, 14 pp. www.emea.eu.int.

Emery RJ, Papadaki M, Freitas dos Santos LM, and Mantzavinos D. "Extent of sonochemical degradation and change of toxicity of a pharmaceutical precursor (triphenylphosphine oxide) in water as a function of treatment conditions," *Environ Internat* **2005**, *31*(2):207-211. http://www.sciencedirect.com/science/article/B6V7X-4DTKWXT-1/1/4733fcbb913a04d2d53bbc0acaa5e38a.

Emmanuel E, Hanna K, Bazin C, Keck G, Clement B, and Perrodin Y. "Fate of glutaraldehyde in hospital wastewater and combined effects of glutaraldehyde and surfactants on aquatic organisms," *Environ Internat* **2005**, *31*(3):399-406. http://www.sciencedirect.com/science/article/B6V7X-4DJ48FV-2/2/a6f781c35dcb208544cae0ba05469893.

Emmanuel E, Keck G, Blanchard J-M, Vermande P, and Perrodin Y. "Toxicological effects of disinfections using sodium hypochlorite on aquatic organisms and its contribution to AOX formation in hospital wastewater," *Environ Internat* **2004**, *30*(7):891-900. http://www.sciencedirect.com/science/article/B6V7X-4C603YM-1/2/e0841ebe2be040c54ff541f73da789aa.

Emmanuel E, Perrodin Y, Keck G, Blanchard JM, and Vermande P. "Ecotoxicological risk assessment of hospital wastewater: a proposed framework for raw effluents discharging into urban sewer network," *J Hazardous Mat* **2005**, *117*(1):1-11. http://www.sciencedirect.com/science/article/B6TGF-4F00XXF-1/2/bca085d99a357074c327f369e516cba5.

Emmanuel J, Hrdinka C, and Gluszynski P. "Non-incineration medical waste treatment technologies in Europe," June, 2004, pp. http://www.env-health.org/IMG/pdf/altech_Europe_updated_version_10_12_2004.pdf.

ENDS. "Industry Glimpses New Challenges as Endocrine Science Advances," *ENDS Report* **1999**, *290*(March) http://www.endsreport.com/issue/contents.cfm?IssueNo=290.

ENDS Report. "A new focus on drugs in the environment," ENDS 2000, 304:25-28.

Engelhaupt E. "More triclosan trouble," *Environ Sci Technol* **2007**, *41*(7):2072. http://pubs.acs.org/subscribe/journals/esthag/41/i07/html/040107news1.html.

Engelmann R, and Heidenreich Z, Editors. "Arzneimittelwirkstoffe, antibiotika und rontgenkontrastmittel in abwassereinleitungen und oberflachengewassern in sachsen (Medicine material report 2007: Drug active substances, antibiotics and Roentgen contrast means in sewage inlets and surface waters in Saxonia)," August, 2007, 65 pp. http://www.smul.sachsen.de/smul/en/index.html http://www.smul.sachsen.de/lfug/5229.htm.

Engemann C, Adams L, Knapp C, and Graham D. "Disappearance of oxytetracycline resistance genes in aquatic systems," *FEMS Microbiol Lett* **2006**, *263*(2):176-182.

Engemann CA, Keen PL, Knapp CW, Hall KJ, and Graham DW. "Fate of Tetracycline Resistance Genes in Aquatic Systems: Migration from the Water Column to Peripheral Biofilms," *Environ Sci Technol* **2008**, *42*(14):5131-5136. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es800238e.

Enick O. "Epistemic and non-epistemic values in risk assessment," *Integr Environ Assess and Manag* **2007**, *3*(2):301-303. http://dx.doi.org/10.1897%2F1551-3793%282007%293%5B297%3ALD%5D2.0.CO%3B2.

Enick OV. "Do Pharmaceutically Active Compounds Have an Ecological Impact?," Masters Dissertation, Simon Fraser University, 2006. 202 pp. http://ir.lib.sfu.ca/retrieve/2941/etd2250.pdf.

Enick OV, and Moore MM. "Assessing the assessments: Pharmaceuticals in the environment," *Environ Impact Assessment Rev* **2007**, *27*(8):707-729. http://www.sciencedirect.com/science/article/B6V9G-4N27632-1/2/4d584def15a669989bfaf2b3606aacf6.

Enna SJ. "Drug stories-of origins and uses," Science 2000, 288:1179-1180.

Enright A-M, Collins G, and O'Flaherty V. "Temporal microbial diversity changes in solventdegrading anaerobic granular sludge from low-temperature (15 [degree sign]C) wastewater treatment bioreactors," *Systematic Appl Microbiol* **2007**, *30*(6):471-482. http://www.sciencedirect.com/science/article/B7GVX-4NMKVF9-1/2/41fd45b879a7a6ba421242b37f5b2307.

Enright A-M, McHugh S, Collins G, and O'Flaherty V. "Low-temperature anaerobic biological treatment of solvent-containing pharmaceutical wastewater," *Wat Res* **2005**, *39*(19):4587-4596. http://www.sciencedirect.com/science/article/B6V73-4HC6KNT-2/2/4502587b5d7b043a92651319675f5699.

Environment Agency. "Human Pharmaceuticals: Position Statement," 2003, pp. http://www.environmentagency.gov.uk/aboutus/512398/289428/698017/?lang=_e.

Environment Canada. "Assessment and Management of Pharmaceuticals and Personal Care Products in the Canadian Environment," Queen's Landing Inn, Niagara-on-the-Lake, February 24-27, 2002.

Environment Canada Workshop Proceedings. "Pharmaceuticals and personal care products in the Canadian environment," PPCP Workshop Final Report, Canada, March 5-7, 2007.

Environmental Working Group "Skin deep: Safety guide to cosmetics and personal care products." EWG 2007. http://www.cosmeticsdatabase.com/index.php?nothanks=1.

Environmental Working Group. "Comments from EWG on the U.S. FDA's Proposed Amendment of Final Monograph for Sunscreens," RIN: 0910-AF43, November 26, 2007, 11 pp. http://www.cosmeticsdatabase.com/sunscreens.

Environmental Working Group EWG, University of Maryland School of Nursing, American Nurses Association ANA, and Health Care Without Harm. "Nurses' Health and Workplace Exposures to Hazardous Substances," 2007, pp. http://www.ewg.org/sites/nurse_survey/analysis/summary.php.

Epel D. "Use of multidrug transporters as first lines of defense against toxins in aquatic organisms," *Comp Biochem Physiol Part A - Molecular Integrative Physiol* **1998**, *120*:23-28.

Epel D, Cole B, Hamdoun A, and Thurber RV. "The sea urchin embryo as a model for studying efflux transporters: Roles and energy cost," *Mar Environ Res* **2006**, *62*(Supplement 1):S1-S4. http://www.sciencedirect.com/science/article/B6V7H-4JSMV7D-3/2/cf39a3540080dc1484c8da5c3378bfa3.

Epel D, Eufemia N, and Clerte S. "Multidrug/multixenobiotic transporters and their significance with respect to environmental levels of pharmaceuticals and personal care products," *Abstracts of Papers of the Amer Chem Soc* **2000**, *219*(1, March 26):48-ENVR.

Epel D, Luckenbach T, Stevenson CN, MacManus-Spencer LA, Hamdoun A, and Smital T. "Efflux Transporters: Newly Appreciated Roles in Protection against Pollutants," *Environ Sci Technol* **2008**, *42*(11):3914-3920. http://pubs.acs.org/subscribe/journals/esthag/42/i11/pdf/060108feature_epel.pdf

Epel D, and Smital T. "Multidrug - multixenobiotic transporters and their significance with respect to environmental levels of pharmaceuticals and personal care products," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 14, 244-263.

ERAPharm "Environmental risk assessment of pharmaceuticals," http://www.erapharm.org/index.html.

Erickson BE. "Analyzing the ignored environmental contaminants," *Environ Sci Technol* **2002**, *36*(7):140A-145A. http://www.ncbi.nlm.nih.gov/pubmed/11999044.

Erickson BE. "Sunscreen safety - Lack of mandatory standards leads to widely variable products," *Chem Eng News* **2008**, *86*(29):44. http://pubs.acs.org/cen/government/government.html http://pubs.acs.org/isubscribe/journals/cen/86/i29/html/8629gov4.html.

Ericson JF. "An Evaluation of the OECD 308 Water/Sediment Systems for Investigating the Biodegradation of Pharmaceuticals," *Environ Sci Technol* **2007**, *41*(16):5803-5811. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es063043+.

Ericson JF, Laenge R, and Sullivan DE. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: a national reconnaissance'," *Environ Sci Technol* **2002**, *36*(18):4005-4006. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2002/36/i18/html/es0200903.html.

Eriksson E, Andersen HR, and Ledin A. "Substance flow analysis of parabens in Denmark complemented with a survey of presence and frequency in various commodities," *J Haz Mat* 2008, *156*(1-3):240-259. http://www.sciencedirect.com/science/article/B6TGF-4RC6RCC-1/1/a41dc9bfadd4b579398639337899f6f4.

Eriksson E, Auffarth K, Eilersen AM, Henze M, and Ledin A. "Household chemicals and personal care products as sources for xenobiotic organic compounds in grey wastewater," *Wat SA* **2003**, *29*(2):135-146.

Eriksson E, Christensen N, Ejbye Schmidt J, and Ledin A. "Potential priority pollutants in sewage sludge," *Desalination* **2008**, *226*(1-3):371-388. http://www.sciencedirect.com/science/article/B6TFX-4S50V3Y-1H/2/910f898115f9684f94e507f57115346a.

Eriksson Wiklund A-K, and Dag Broman BS. "Toxicity evaluation by using intact sediments and sediment extracts," *Mar Pollut Bull* **2005**, *50*(6):660-667. http://www.sciencedirect.com/science/article/B6V6N-4FPJBD6-4/1/9ca7fa431b0956ecc2ea4fce94abd9b8.

Ermawati R, Morimura S, Tang Y, Liu K, and Kida K. "Degradation and behavior of natural steroid hormones in cow manure waste during biological treatments and ozone oxidation," *J Biosci Bioengineer* **2007**, *103*(1):27-31. http://www.sciencedirect.com/science/article/B6VSD-4N1CRXK-5/1/39bca1751bedbdbd12f08c5fff0d1bde.

Errouissi F, Alvinerie M, Galtier P, Kerboeuf D, and Lumaret JP. "The negative effects of the residues of ivermeetin in cattle dung using a sustained-release bolus on *Aphodius constans* (Duft.) (Coleoptera: Aphodiidae)," *Vet Res* **2001**, *32*(5):421-427. http://www.ncbi.nlm.nih.gov/pubmed/11592612.

Ertl RP, and Winston GW. "The microsomal mixed function oxidase system of amphibians and reptiles: components, activities and induction," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **1998**, *121*(1):85-105. http://www.ingentaconnect.com/content/els/07428413/1998/00000121/00000001/art10032 http://dx.doi.org/10.1016/S0742-8413(98)10032-4.

Escher BI, Berger C, Bramaz N, Kwon J-H, Richter M, Tsinman O, et al. "Membrane-water partitioning, membrane permeability and baseline toxicity of the parasiticides ivermectin, albendazole, and morantel," *Environ Toxicol* **2007**, *27*(4):909-918.

Escher BI, Bramaz N, Eggen RIL, and Richter M. "In Vitro Assessment of Modes of Toxic Action of Pharmaceuticals in Aquatic Life," *Environ Sci Technol* **2005**, *39*(9):3090-3100. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es048590e.

Escher BI, Bramaz N, Maurer M, Richter M, Sutter D, von Känel C, et al. "Screening test battery for pharmaceuticals in urine and wastewater," *Environ Toxicol Chem* **2005**, *24*(3):750-758.

Escher BI, Bramaz N, Richter M, and Lienert J. "Comparative Ecotoxicological Hazard Assessment of Beta-Blockers and Their Human Metabolites Using a Mode-of-Action-Based Test Battery and a QSAR Approach," *Environ Sci Technol* **2006**, *40*(23):7402-7408. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es052572v.

Escher BI, Eggen RIL, Schreiber U, Schreiber Z, Vye E, Wisner B, et al. "Baseline Toxicity (Narcosis) of Organic Chemicals Determined by In Vitro Membrane Potential Measurements in Energy-Transducing Membranes," *Environ Sci Technol* **2002**, *36*(9):1971-1979. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es015844c.

Escher BI, and Hermens JLM. "Modes of Action in Ecotoxicology: Their Role in Body Burdens, Species Sensitivity, QSARs, and Mixture Effects," *Environ Sci Technol* **2002**, *36*(20):4201-4217. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es015848h.

Escher BI, Pronk W, Suter MJF, and Maurer M. "Monitoring the Removal Efficiency of Pharmaceuticals and Hormones in Different Treatment Processes of Source-Separated Urine with Bioassays," *Environ Sci Technol* **2006**, *40*(16):5095-5101. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es060598w.

Escher BI, and Schwarzenbach RP. "Mechanistic studies on baseline toxicity and uncoupling of organic compounds as a basis for modeling effective membrane concentrations in aquatic organisms," *Aqua Sci* **2002**, *64*:20-35.

Eschke HD, Traud J, and Dibowski HJ. "Untersuchungen zum Vorkommen polycyclischer Moschus-Duftstoffe in verschiedenen Umweltkompartimenten – Nachweis und Analytik mit GC/MS in Oberflässern und Fischen (1. Mitteilung)," *Z Umweltchem* **1994**, *6*(Ökotox.):183-189.

Eschke HD, Traud J, and Dibowski HJ. "Untersuchungen zum Vorkommen polycyclischer Moschus-Duftstoffe in verschiedenen Umweltkompartimenten – Befunde in Oberflächen-, Abwässern und Fischen sowie in Waschmitteln und Kosmetika (2. Mitteilung) "*Z Umweltchem* **1995a**, 7(Ökotox.):131-138.

Eschke HD, Traud J, and Dibowski HJ. "Nachweis und Quantifizierung von polycyclischen Moschus-Duftstoffen mittels Ion-Trap GC/MS/MS in Humanfett und Muttermilch," *Dt Lebensmittel* **1995b**, *12*(Rundschau):375-379.

Esiobu N, Armenta L, and Ike J. "Antibiotic resistance in soil and water environments," *Internat J Environ Health Res* **2002**, *12*:133-144.

Esperanza M, Suidan MT, Marfil-Vega R, Gonzalez C, Sorial GA, McCauley P, et al. "Fate of sex hormones in two pilot-scale municipal wastewater treatment plants: Conventional treatment,"

Chemosphere **2007**, *66*(8):1535-1544. http://www.sciencedirect.com/science/article/B6V74-4M81BYM-3/2/3a69a2a1b45d97c0ad9a244097dc3a28.

Esperanza M, Suidan MT, Nishimura F, Wang Z-M, and G.A. S. "Determination of sex hormones and nonylphenol ethoxylates in the aqueous matrixes of two pilot-scale municipal wastewater treatment plants," *Environ Sci Technol* **2004**, *38*(11):3028-3035. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i11/html/es0350886.html.

Esplugas S, Bila DM, Krause LG, and Dezotti M. "Ozonation and advanced oxidation technologies to remove endocrine disrupting chemicals (EDCs) and pharmaceuticals and personal care products (PPCPs) in water effluents," *J Hazardous Mat* **2007**, *149*(3):631-642. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17826898.

Estevez M-C, Font H, Nichkova M, Salvador P, Varela B, Sanchez-Baeza F, et al. "Immunochemical Determination of Pharmaceuticals and Personal Care Products as Emerging Pollutants " in *The Handbook of Environmental Chemistry*, Springer Berlin/Heidelberg, 2005, 171-244. http://www.springerlink.com/content/wc1v4uxvghctj73l/.

Estey C, Chen X, and Moon TW. "3-Hydroxy-3-methylglutaryl coenzyme A reductase in rainbow trout: Effects of fasting and statin drugs on activities and mRNA transcripts," *Comp Biochem and Physiology Part C: Toxicology & Pharmacology* **2008**, *147*(3):386-398. http://www.sciencedirect.com/science/article/B6W89-4RP0MN9-1/2/ac440e070f23e22b9d2692673dd1242c.

Eufemia NA, and Epel D. "Induction of the multixenobiotic defense mechanism (MXR), P-glycoprotein, in the mussel Mytilus californianus as a general cellular response to environmental stresses," *Aqua Toxicol* **2000**, *49*(1-2):89-100. http://www.sciencedirect.com/science/article/B6T4G-408BJ7C-8/2/1049977ea1cc685f36d70a977ac4c19c.

European Commission Directorate-General, Health and Consumer Protection, and Scientific Committee on Toxicity Ecotoxicity and the Environment (CSTEE). "Opinion on Draft CPMP Discussion Paper on Environmental risk assessment of medicinal products for human use [Non-genetically modified organism (Non-GMO) Containing]," Brussels, Belgium, 2001, 22 pp.

European Commission Joint Research Centre. "Technical Guidance Document on risk assessment," Institute Health Consumer Protection, 2003, pp. http://ecb.jrc.it/documents/TECHNICAL_GUIDANCE_DOCUMENT/EDITION_2/tgdpart1_2ed.pdf.

Evans WE, and Relling MV. "Pharmacogenomics: Translating Functional Genomics into Rational Therapeutics," *Science* **1999**, *286*(5439):487-491. http://www.sciencemag.org/cgi/content/abstract/286/5439/487.

Exall K. "A review of water reuse and recycling, with reference to Canadian practice and potential," *Wat Qual Res J Canada* **2004**, *39*:13-12.

Falcao DP, Lustri WR, and Bauab TM. "Incidence of non-01 Vibrio cholerae and Aeromonas spp. in fresh water in Araraquara, Brazil," *Current Microbiology* **1998**, *37*:28-31.

Falconer IR. "Are endocrine disrupting compounds a health risk in drinking water?," *Int J Environ Res Public Health* **2006**, *3*(2):180-184. http://www.ncbi.nlm.nih.gov/pubmed/16823090.

Falconer IR, Chapman HF, Moore MR, and Ranmuthugala G. "Endocrine-disrupting compounds: A review of their challenge to sustainable and safe water supply and water reuse," *Environ Toxicol* **2006**, *21*(2):181-191. http://www.cemus.uu.se/dokument/msd/systecology/Falconer_et_al_2006.pdf.

Falkow S, and Kennedy D. "Antibiotics, Animals, and People-Again!," *Science* **2001**, *291*(5503):397. http://www.sciencemag.org.

Fall C, Hinojosa-Pena A, and Carreno-de-Leon MC. "Design of a monitoring network and assessment of the pollution on the Lerma river and its tributaries by wastewaters disposal," *Sci Total Environ* **2007**, *373*(1):208-219. http://www.sciencedirect.com/science/article/B6V78-4MM25T9-4/2/b736562245de83bfc9c640e4b5fe19cd.

Falter R, and Wilken R-D. "Determination of carboplatinum and cisplatinum by interfacing HPLC with ICP-MS using ultrasonic nebulisation," *Sci Total Environ* **1999**, *225*(1-2):167-176. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-J/2/c9d8ac8ee7fe70349f2ac3f8ccf25bd5.

Famiglini G, Palma P, Siviero A, Rezai MA, and Cappiello A. "Determination of endocrine disrupting compounds in marine water by nanoliquid chromatography/direct-electron ionization mass spectrometry," *Anal Chem* **2005**, *77*(23):7654-7661.

Fan Y, Xiao G, Li S, and Weidong Q. "A rapid CE-potential gradient detection method for determination of quinolones," *ELECTROPHORESIS* **2007**, *28*(22):4101-4107. http://dx.doi.org/10.1002/elps.200700182.

Fan Y, Zhang M, Da SL, and Feng YQ. "Determination of endocrine disruptors in environmental waters using poly(acrylamide-vinylpyridine) monolithic capillary for in-tube solid-phase microextraction coupled to high-performance liquid chromatography with fluorescence detection," *Analyst* **2005**, *130*(7):1065-1069.

Fan ZS, Casey FXM, Hakk H, and Larsen GL. "Discerning and modeling the fate and transport of testosterone in undisturbed soil," *J Environ Qual* **2007**, *36*(3):864-873. http://jeq.scijournals.org/cgi/content/abstract/36/3/864.

Fang ZQ. "Organochlorines in sediments and mussels collected from coastal sites along the Pearl River Delta, South China," *J Environ Sciences-China* **2004**, *16*:321-327.

FAO. "The state of the world fisheries and aquaculture: part 2. Selected issues facing fishers and aquaculture (antibiotic residues in aquaculture products)," *Food Agric Organization of the United Nations* **2002**, http://www.fao.org/documents/show_cdr.asp? and url file=//docrep/005/y7300e/y7300300.htm.

FAO, OIE, and WHO. "Antimicrobial Use in Aquaculture and Antimicrobial Resistance," Seoul, Republic of Korea, 13-16 June, 2006, 107 pp.

FAO, WHO, and OIE. "Antimicrobial Resistance," Rome, Italy, 26-30 November, 2007, 60 pp. http://www.who.int/foodborne disease/resistance/en/.

Fardel O, Payen L, Courtois A, Vernhet L, and Lecureur V. "Regulation of biliary drug efflux pump expression by hormones and xenobiotics," *Toxicology* **2001**, *167*(1):37-46. http://www.sciencedirect.com/science/article/B6TCN-43XF451-4/1/779d4d212d7e3d519d8a39a5c99fc927.

Farkas MH, Berry JO, and Aga DS. "Chlortetracycline Detoxification in Maize via Induction of Glutathione S-Transferases after Antibiotic Exposure," *Environ Sci Technol* **2007**, *41*(4):1450-1456. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061651j.

Farre M, Brix R, Kuster M, Rubio F, Goda Y, de Alda MJL, et al. "Evaluation of commercial immunoassays for the detection of estrogens in water by comparison with high-performance liquid chromatography tandem mass spectrometry HPLC-MS/MS (QqQ)," *Anal Bioanal Chem* **2006**, *385*(6):1001-1011.

Farre M, Petrovic M, and Barcelo D. "Recently developed GC/MS and LC/MS methods for determining NSAIDs in water samples," *Anal Bioanal Chem* **2007**, *387*(4):1203-1214.

Farré M, Petrovic M, Gros M, Kosjek T, Martinez E, Heath E, et al. "First interlaboratory exercise on non-steroidal anti-inflammatory drugs analysis in environmental samples," *Talanta* **2008**, *76*(3):580-590. http://www.sciencedirect.com/science/article/B6THP-4S98TT3-2/1/3abf52b5efcca3848c9f017e6ec73582.

Farré Ml, Ferrer I, Ginebreda A, Figueras M, Olivella L, Tirapu L, et al. "Determination of drugs in surface water and wastewater samples by liquid chromatography-mass spectrometry: methods and preliminary results including toxicity studies with Vibrio fischeri," *J Chromatogr A* **2001**, *938*(1-2):187-197. http://www.sciencedirect.com/science/article/B6TG8-43S67WW-C/1/f88e9d28879e8a2ceb1b30181deaa022.

Farrell I. "Artificial musks are causing scientists to look to new ways of detecting pollutants - A fishy method of analysis," *Chem Comm* **2004**, *9*(7):C34-C34.

Farrell J, Wang JK, and LeBlanc R. "Electrochemical destruction of triclosan," in *Pesticide Decontamination and Detoxification*, Gan JJ, Zhu PC, Aust SD and Lemley AT, Eds., American Chemical Society; Phoenix, Arizona, 2004, 8, 99-112.

Farrell MB. "Water's odyssey from sewer to cup," The Christian Science Monitor, 2008 4http://features.csmonitor.com/environment/2008/07/30/water%E2%80%99s-odyssey-from-sewer-to-cup/.

Fasola G, Aita M, Marini L, Follador A, Tosolini M, Mattioni L, et al. "Drug waste minimisation and cost-containment in Medical Oncology: two-year results of a feasibility study," *BMC Health Serv Res* **2008**, *8*(1):70.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18380901.

fass.se. "Environmental classification of pharmaceuticals in www.fass.se – guidance for pharmaceutical companies," January, 2007, 17 pp.

http://www.dnsy.se/_upload/lfm/2007/2007%20Environmental%20classification%20guidance%20LIF .pdf.

Fatta D, Achilleos A, Nikolaou A, and Meric S. "Analytical methods for tracing pharmaceutical residues in water and wastewater," *TrAC Trends in Anal Chem* **2007**, *26*(6):515-533. http://www.sciencedirect.com/science/article/B6V5H-4N1JRKV-1/2/de9e48307af1ec3cbb21ac473ba69491.

Faure P, and Rizzo Padoin N. "[Hospital and environment: waste disposal]," *Ann Pharm Fr* **2003**, *61*(6):373-377.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =14639187 and

http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&uid=14639187&cmd=showdetailview&indexe d=google.

Faust M, Altenburger R, Backhaus T, Blanck H, Boedeker W, Gramatica P, et al. "Joint algal toxicity of 16 dissimilarly acting chemicals is predictable by the concept of independent action," *Aqua Toxicol* **2003**, *63*(1):43-63. http://www.sciencedirect.com/science/article/B6T4G-4712MJV-1/1/c82353227df6146169e4f68c7a6fdb66.

Feder ME, and Hofmann GE. "Heat-shock proteins, molecular chaperones, and the stress response: Evolutionary and ecological physiology," *Ann Rev Physiol* **1999**, *61*:243-282.

Federation and federal state committee of Germany for the Safety of chemical Products (BLAC). "Arzneimittel in der umwelt, auswertung der untersuchungsergebnisse," BLAC-AG, Hmburg, Germany, 2003, pp.

Federle TW, Kaiser SK, and Nuch BA. "Fate and effects of triclosan in activated sludge," *Environ Toxicol Chem* **2003**, *21*(7):1330-1337. http://www.ncbi.nlm.nih.gov/pubmed/12109731.

Feitosa-Felizzola J, Temime B, and Chiron S. "Evaluating on-line solid-phase extraction coupled to liquid chromatography-ion trap mass spectrometry for reliable quantification and confirmation of several classes of antibiotics in urban wastewaters," *J Chromatogr A* **2007**, *1164*(1-2):95-104. http://www.sciencedirect.com/science/article/B6TG8-4P4FV54-5/2/e8489361eb25862dc41ed71c27c58ee7.

Feldman J. "Triclosan risk assessment," Docket Identification No. EPA-HQ-OPP-2007-0513, USEPA, 2008.

Feldmann DF, Zuehlke S, and Heberer T. "Occurrence, fate and assessment of polar metamizole (dipyrone) residues in hospital and municipal wastewater," *Chemosphere* **2008**, *71*(9):1754-1764. http://www.sciencedirect.com/science/article/B6V74-4RGFY9D-5/1/4089d87b4c51deda85ff3d0e7dd78407.

Fenet H, Gomez E, Leclerc M, and Casellas C. "Fate of drugs in the environment," *Environment, Risques & Sante* **2006**, *5*(4):243-247. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/F8/resume.md?type=text.html.

Feng X, Ding S, Tu J, Wu F, and Deng N. "Degradation of estrone in aqueous solution by photo-Fenton system," *Sci Total Environ* **2005**, *345*(1-3):229-237. http://www.sciencedirect.com/science/article/B6V78-4F7Y96V-3/2/ce42f468c0549095151a66d60a45d124.

Feng XH, Tu JF, Ding SM, Wu F, and Deng NS. "Photodegradation of 17 beta-estradiol in water by UV-vis/Fe(III)/H2O2 system," *J Hazardous Mat* **2005**, *127*(1-3):129-133.

Fenske M, Maack G, Schafers C, and Segner H. "An environmentally relevant concentration of estrogen induces arrest of male gonad development in zebrafish, Danio rerio," *Environ Toxicol Chem* **2005**, *24*(5):1088-1098. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F04-096R1.1.

Fenske M, van Aerle R, Brack S, Tyler CR, and Segner H. "Development and validation of a homologous zebrafish (Danio rerio Hamilton-Buchanan) vitellogenin enzyme-linked immunosorbent assay (ELISA) and its application for studies on estrogenic chemicals," *Comp Biochem Physiol Part C: Toxicol Pharmacol* **2001**, *129*(3):217-232. http://www.sciencedirect.com/science/article/B6W89-43GCJ8F-4/1/2f37b2311fcd08a30328a96112e733ac.

Fent K, Escher C, and Caminada D. "Estrogenic activity of pharmaceuticals and pharmaceutical mixtures in a yeast reporter gene system," *Reproductive Toxicol* **2006**, *22*(2):175-185. http://www.sciencedirect.com/science/article/B6TC0-4K6CPNX-2/2/3c43b4f99221305329176b5bf3de508a.

Fent K, Kunz P, and Gomez E. "UV filters in the aquatic environment induce hormonal effects and affect fertility and reproduction in fish," *CHIMIA* **2008**, *62*(5):368-375. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000005/art00011;jsessionid=6lf i04cdr790e.alexandra?format=print *http://dx.doi.org/10.2533/chimia.2008.368*

Fent K, Kunz P, Wolf M, Schmutz H, Gygax D, and Schanne C. "Chemical analysis and ecotoxicological effects of UV absorbing organic chemicals in aquatic environments," *CHIMIA* **2004**, *58*(5):325-327.

Fent K, Weston AA, and Caminada D. "Ecotoxicology of human pharmaceuticals," *Aqua Toxicol* **2006**, *76*(2):122-159. http://www.sciencedirect.com/science/article/B6T4G-4HDX6GD-1/2/b976f6714beb71278b604a2dc47e9946.

Fenz R, Blaschke AP, Clara M, Kroiss H, Mascher D, and Zessner M. "Monitoring of carbamazepine concentrations in wastewater and groundwater to quantify sewer leakage," *Wat Sci Technol* **2005**, *52*(5):205-213. http://www.ncbi.nlm.nih.gov/pubmed/16248197.

Fenz R, Blaschke AP, Clara M, Kroiss H, Mascher D, and Zessner M. "Quantification of sewer exfiltration using the anti-epileptic drug carbamazepine as marker species for wastewater," *Wat Sci Technol* **2005**, *52*(9):209-217. http://www.iwaponline.com/wst/05209/wst052090209.htm.

Ferber D. "New hunt for the roots of resistance," Science 1998, 280:27 pp.

Ferber D. "Superbugs on the Hoof?," *Science* **2000**, *288*(5467):792-794. http://www.sciencemag.org/cgi/content/summary/288/5467/792.

Ferdig M, Kaleta A, and Buchberger W. "Improved liquid chromatographic determination of nine currently used (fluoro)quinolones with fluorescence and mass spectrometric detection for environmental samples," *J Separation Sci* **2005**, *28*(13):1448-1456.

Ferguson PL, Iden CR, McElroy AE, and Brownawell BJ. "Determination of Steroid Estrogens in Wastewater by Immunoaffinity Extraction Coupled with HPLC-Electrospray-MS," *Anal Chem* **2001**, *73*(16):3890-3895. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac010327y.

Ferianc P, Harichova J, Proksova M, Kreposova K, Chovanova K, and Toth D. "The surface river water and clinical Escherichia coli isolates: characteristics, diversity and epidemiological significance," *Biologia* **2002**, *57*:321-334.

Fernandes D, Bebianno MJ, and Porte C. "Mitochondrial metabolism of 17alpha-hydroxyprogesterone in male sea bass (Dicentrarchus labrax): a potential target for endocrine disruptors," *Aqua Toxicol* **2007**, *85*(4):258-266.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17977610.

Fernández C, Alonso C, Babin M, Pro J, Carbonell G, and Tarazona JV. "Ecotoxicological assessment of doxycycline in aged pig manure using multispecies soil systems," *Sci Total Environ* **2004**, *323*(1-3):63-69.

Fernández C, Carballo M, and Tarazona JV. "A new method to determine musk xylene in water sewages fish and related products," *Chemosphere* **1996**, *32*(9):1805-1811.

Fernandez MP, Buchanan ID, and Ikonomou MG. "Seasonal variability of the reduction in estrogenic activity at a municipal WWTP," *Wat Res* **2008**, *42*(12):3075-3081. http://www.sciencedirect.com/science/article/B6V73-4S03RC5-7/2/ac7e563b06f26ef481b0195dadba0974.

Fernandez MP, Campbell PM, Ikonomou MG, and Devlin RH. "Assessment of environmental estrogens and the intersex/sex reversal capacity for chinook salmon (Oncorhynchus tshawytscha) in primary and final municipal wastewater effluents," *Environ Internat* **2007**, *33*(3):391-396. http://www.sciencedirect.com/science/article/B6V7X-4N1SJV1-1/2/3c4cd1b3705ce35a93f1e62dd498121a.

Fernandez MP, Ikonomou MG, and Buchanan I. "An assessment of estrogenic organic contaminants in Canadian wastewaters," *Sci Total Environ* **2007**, *373*(1):250-269. http://www.sciencedirect.com/science/article/B6V78-4MP5KKP-2/2/62e32818270985e3ce30b47a74db5370.

Fernández-Álvarez P, Le Noir M, and Guieysse B. "Removal and destruction of endocrine disrupting contaminants by adsorption with molecularly imprinted polymers followed by simultaneous extraction and phototreatment," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4T2S8VY-4/1/3bd0cef1a5df4925ede424b916245b06.

Fernando PN, Egwu IN, and Hussain MS. "Ion chromatographic determination of trace hydroxylamine in waste streams generated by a pharmaceutical reaction process," *J Chromatogr A* **2002**, *956*(1-2):261-270. http://www.sciencedirect.com/science/article/B6TG8-458P9NG-C/2/0beb11ca365ea63572b792cd1642292a.

Ferrari B, Mons R, Villat B, Fraysse B, Paxéus N, Lo Guidice R, et al. "Environmental risk assessment of six human pharmaceuticals: Are the current environmental risk assessment procedures sufficient for the protection of the aquatic environment?," *Environ Toxicol Chem* **2004**, *23*(5):1344-1354.

Ferrari B, Paxeus N, Giudice RL, Pollio A, and Garric J. "Ecotoxicological impact of pharmaceuticals found in treated wastewaters: study of carbamazepine, clofibric acid, and diclofenac," *Ecotoxicol Environ Safety* **2003**, *55*(3):359-370. http://www.sciencedirect.com/science/article/B6WDM-48J43G8-2/2/1af17933df9bccc2a2b974422bfcee83.

Ferrari B, Paxéus N, Giudice RL, Pollio A, and Garric J. "Erratum to "Ecotoxicological impact of pharmaceuticals found in treated wastewaters: study of carbamazepine, clofibric acid, and diclofenac": [Ecotoxicol. Environ. Saf. 55 (2003) 359-370]," *Ecotoxicol Environ Safety* **2003**, *56*(3):450-450. http://www.sciencedirect.com/science/article/B6WDM-4997N6T-1/1/8f224b538e0e0fe9b49c74276e74faa4.

Ferreira AP, De Lourdes C, and Da Cunha N. "Anthropic pollution in aquatic environment: Development of a caffeine indicator," *Internat J Environ Health Res* **2005**, *15*(4):303-311.

Ferreira CSG, Nunes BA, Henriques-Almeida JMdM, and Guilhermino L. "Acute toxicity of oxytetracycline and florfenicol to the microalgae Tetraselmis chuii and to the crustacean Artemia parthenogenetica," *Ecotoxicology and Environmental Safety* **2007**, *67*(3):452-458. http://www.sciencedirect.com/science/article/B6WDM-4NDVH3D-1/2/c51323577bef520c7d3674c21633decc.

Ferrer I, Heine CE, and Thurman EM. "Combination of LC/TOF-MS and LC/ion trap MS/MS for the identification of diphenhydramine in sediment samples," *Anal Chem* **2004**, *76*(5):1437-1444.

Ferrer I, Mezcua M, Gomez MJ, Thurman EM, Aguera A, Hernando MD, et al. "Liquid chromatography/time-of-flight mass spectrometric analyses for the elucidation of the photodegradation products of triclosan in wastewater samples," *Rapid Commun Mass Spectrom* **2004**, *18*(4):443-450.

Ferrer I, and Thurman EM. "Liquid chromatography/time-of-flight/mass spectrometry (LC/TOF/MS) for the analysis of emerging contaminants," *TrAC Trends in Anal Chem* **2003**, *22*(10):750-756. http://www.sciencedirect.com/science/article/B6V5H-4B4P26W-1P/2/3d2b154077868f9c9d575dafd22b90a0.

Ferrer I, and Thurman EM. "Analysis of Emerging Contaminants," in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants* Almagor UM, Ed., American Chemical Society, 2003, Chapter 1, 2-13. http://www.powells.com/biblio?isbn=9780841238251.

Ferrer I, and Thurman EM. "Identification of Homologue Unknowns in Wastewater by Ion Trap MSn: The Diagnostic-Ion Approach," in ACS Symposium #850: Liquid Chromatography/Mass Spectrometry,

MS/MS and Time of Flight MS: Analysis of Emerging Contaminants Almagor UM, Ed., American Chemical Society, 2003, Chapter 22, 376-393. http://www.powells.com/biblio?isbn=9780841238251.

Fichana D. "Green Engineering and Gate-to-gate Life Cycle Assessments for Pharmaceutical Products," Masters Dissertation, Rowan University, 2005. 142 pp.

Fick J, Lindberg RH, Tysklind M, Haemig PD, Waldenström J, Wallensten A, et al. "Antiviral oseltamivir is not removed or degraded in normal sewage water treatment: implications for development of resistance by influenze A virus," *PLoS ONE* **2007**, *10*(986):1-5. http://www.plosone.org/article/fetchArticle.action?articleURI=info:doi/10.1371/journal.pone.0000986.

Field JA, Johnson CA, and Rose JB. "Special issue on emerging contaminants," *Environ Sci Technol* **2006**, *40*:7106-7106.

Figueroa RA, Leonard A, and Mackay AA. "Modeling tetracycline antibiotic sorption to clays," *Environ Sci Technol* **2004**, *38*(2):476-483. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i02/abs/es0342087.html.

Figueroa RA, and Mackay AA. "Sorption of oxytetracycline to iron oxides and iron oxide-rich soils," *Environ Sci Technol* **2005**, *39*(17):6664-6671. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i17/abs/es0480441.html.

Filali-Meknassi Y, Auriol M, Adams CD, and Surampalli RY. "Quantification of steroid sex hormones using solid-phase extraction followed by liquid chromatography-mass spectrometry," *Wat Environ Res* **2007**, *79*(6):687-696.

Filali-Meknassi Y, Barata C, and Riva MC. "Endocrine estrogenic disruptors in wastewaters. Mitigation mechanisms in the water treatment," *Afinidad* **2005**, *62*(516):94-99.

Filali-Meknassi Y, Tyagi RD, Surampalli RY, Barata C, and Riva MC. "Endocrine-Disrupting Compounds in Wastewater, Sludge-Treatment Processes, and Receiving Waters: Overview," *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2004**, 8(1):39-56. http://link.aip.org/link/?QHZ/8/39/1

http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=PPHMF8000008000001000039 000001&idtype=cvips&gifs=yes.

Filby AL, Neuparth T, Thorpe KL, Owen R, Galloway TS, and Tyler CR. "Health impacts of estrogens in the environment, considering complex mixture effects," *Environ Health Perspect* **2007**, *115*(12):1704-1710. http://www.ncbi.nlm.nih.gov/pubmed/18087587?dopt=Citation.

Filby AL, Santos EM, Thorpe KL, Maack G, and Tyler CR. "Gene expression profiling for understanding chemical causation of biological effects for complex mixtures: a case study on estrogens," *Environ Sci Technol* **2007**, *41*(23):8187-8194. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i23/abs/es071278v.html.

Filby AL, Thorpe KL, and Tyler CR. "Multiple molecular effect pathways of an environmental oestrogen in fish," *J Molecular Endocrinology* **2006**, *37*(1):121-134.

Filby AL, and Tyler CR. "Appropriate 'housekeeping' genes for use in expression profiling the effects of environmental estrogens in fish," *EMC Molecular Biol* **2007**, 8:10.

Filmore D. "Fighting crime with specificity," *Today's Chem at work* **2001**, (February):27-32. http://pubs.acs.org/subscribe/journals/tcaw/10/i02/html/02inst.html.

Fine DD, Breidenbach GP, Price TL, and Hutchins SR. "Quantitation of estrogens in ground water and swine lagoon samples using solid-phase extraction, pentafluorobenzyl/trimethylsilyl derivatizations and gas chromatography-negative ion chemical ionization tandem mass spectrometry," *J Chromatogr A* **2003**, *1017*(1-2):167-185. http://www.sciencedirect.com/science/article/B6TG8-49J8WM1-M/2/9d1a3a8a7e0af2eef8473ffbec1edec3.

Fink J, Lindberg RH, Tysklind M, Haemig PD, Waldenstrom J, Wallensten A, et al. "Antiviral Oseltamivir is not removed or degraded in mornal sewage water treatment implications for development of resistance by influenza a virus," *PLoS ONE* **2007**, *2*(10):e986. http://dx.doi.org/10.1371%2Fjournal.pone.0000986.

Fisher PMJ, and Borland R. "Gauging the pharmaceutical burden on Sydney's environment: a preventative response," *J Cleaner Production* **2003**, *11*(3):315-320.

Fisher PMJ, and Scott R. "Evaluating and controlling pharmaceutical emissions from dairy farms: a critical first step in developing a preventative management approach," *J Cleaner Production* **2008**, *16*(14):1437-1446. http://www.sciencedirect.com/science/article/B6VFX-4SSGCH0-2/1/777ac3e6dc28cce61f4f74ad12fbe8d2.

Flaherty CM, and Dodson SI. "Effects of pharmaceuticals on Daphnia survival, growth, and reproduction," *Chemosphere* **2005**, *61*(2):200-207. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4FX23DG-7&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=14684&md5=5dee7388888fdef9e324ac28fe2e9469.

Flaherty S, Wark S, Street G, Farley JW, and Brumley WC. "Investigation of capillary electrophoresislaser induced fluorescence as a tool in the characterization of sewage effluent for fluorescent acids: Determination of salicylic acid," *ELECTROPHORESIS* **2002**, *23*:2327-2332.

Flammarion P, Brion F, Babut M, Garric J, Migeon B, Noury P, et al. "Induction of Fish Vitellogenin and Alterations in Testicular Structure: Preliminary Results of Estrogenic Effects in Chub (Leuciscus cephalus)," *Ecotoxicology* **2000**, *9*(1):127-135. http://dx.doi.org/10.1023/A:1008984616206.

Flannagan LM, Butts JD, and Anderson WH. "Fentanyl patches left on dead bodies -- potential source of drug for abusers," *J Forensic Sci* **1996**, *41*(2):320-321. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =8871394.

Flippin JL, Huggett D, and Foran CM. "Changes in the timing of reproduction following chronic exposure to ibuprofen in Japanese medaka, Oryzias latipes," *Aqua Toxicol* **2007**, *81*(1):73-78. http://www.sciencedirect.com/science/article/B6T4G-4M9Y1TH-2/2/43f98dd482eaadf6e00b1743c8e69633.

Focazio MJ, Kolpin DW, Barnes KK, Furlong ET, Meyer MT, Zaugg SD, et al. "A national reconnaissance for pharmaceuticals and other organic wastewater contaminants in the United States -- II) Untreated drinking water sources," *Sci Total Environ* **2008**, *402*(2-3):201-216. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V78-4SBRTJ2-3&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version= 1&_urlVersion=0&_userid=14684&md5=68b84eb974f0ca9372c9ccf8eec6de3c http://dx.doi.org/10.1016/j.scitotenv.2008.02.021.

Focazio MJ, Kolpin DW, and Furlong ET. "Occurrence of human pharmaceutical in water resources of the United States: A reveiw," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 7, 91-104.

Foerster M, Laabs V, Lamshoeft M, Puetz T, and Amelung W. "Analysis of aged sulfadiazine residues in soils using microwave extraction and liquid chromatography tandem mass spectrometry," *Anal Bioanal Chem* **2008**, *391*(3):1029-1038. http://www.springerlink.com/content/89647h4721404451/.

Fogarty B, Regan F, and Dempsey E. "Separation of two groups of oestrogen mimicking compounds using micellar electrokinetic chromatography," *J Chromatogr A* **2000**, *895*(1-2):237-246. http://www.sciencedirect.com/science/article/B6TG8-41B6YS3-X/2/bb56f65d19589e3bfebb4ae17a1fc84e.

Foissner I, and Wasteneys GO. "A cytochalasin-sensitive actin filament meshwork is a prerequisite for local wound wall deposition in Nitella internodal cells," *Protoplasma* **1997**, 200:17-30.

Folmar LC, Denslow ND, Kroll K, Orlando EF, Enblom J, Marcino J, et al. "Altered serum sex steroids and vitellogenin induction in walleye (Stizostedion vitreum) collected near a metropolitan sewage treatment plant," *Arch Environ Contam Toxicol* **2001**, *40*(3):392-398. <Go to ISI>://CCC:000167524900014.

Folmar LC, Denslow ND, Rao V, Chow M, Crain DA, Enblom J, et al. "Vitellogenin induction and reduced serum testosterone concentrations in feral male carp (Cyprinus carpio) captured near a major metropolitan sewage treatment plant," *Environ Health Perspect* **1996**, *104*(10):1096-1101.

Folmar LC, Hemmer M, Hemmer R, Bowman C, Kroll K, and Denslow ND. "Comparative estrogenicity of estradiol, ethynyl estradiol and diethylstilbestrol in an in vivo, male sheepshead minnow (Cyprinodon variegatus), vitellogenin bioassay," *Aqua Toxicol* **2000**, *49*(1-2):77-88. http://www.sciencedirect.com/science/article/B6T4G-408BJ7C-7/2/a4036327814137fdf1981e43fd115078.

Folmar LC, Hemmer MJ, Denslow ND, Kroll K, Chen J, Cheek A, et al. "A comparison of the estrogenic potencies of estradiol, ethynylestradiol, diethylstilbestrol, nonylphenol and methoxychlor in vivo and in vitro," *Aqua Toxicol* **2002**, *60*(1-2):101-110. http://www.sciencedirect.com/science/article/B6T4G-44VG3WD-3/2/91db66f1ab242815b4bd4417e24e1502.

Fong PP. "Complete list of publications," http://www.gettysburg.edu/~pfong/fong4.htm.

Fong PP. "Zebra mussel spawning is induced in low concentrations of putative serotonin reuptake inhibitors," *Biolog Bull* **1998**, *194*(2):143-149. http://www.biolbull.org/cgi/content/abstract/194/2/143.

Fong PP. "Antidepressants in aquatic organisms: a wide range," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 15, 364-281.

Fong PP, Hardege JD, and Ram JL. "Long-lasting, sex-specific inhibition of serotonin-induced spawning by methiothepin in the zebra mussel, Dreissena polymorpha (Pallas)," *J Experimental Zool* **1994**, *270*(3):314-320. http://dx.doi.org/10.1002/jez.1402700310.

Fong PP, Huminski PT, and d'Urso LM. "Induction and potentiation of parturition in fingernail clams (Sphaerium striatinum) by selective serotonin re-uptake inhibitors (SSRIs)," *J Exp Zool Part A Comp Exp Biol* **1998**, 280(3):260-264.

http://www3.interscience.wiley.com/journal/31645/abstract?CRETRY=1&SRETRY=0.

Fong PP, Philbert CM, and Roberts BJ. "Putative serotonin reuptake inhibitor-induced spawning and parturition in freshwater bivalves is inhibited by mammalian 5-HT2 receptor antagonists," *J Exp Zool Part A Comp Exp Biol* **2003**, 298(A(1)):67-72. http://www3.interscience.wiley.com/journal/104541835/abstract.

Fono LJ, Kolodziej EP, and Sedlak DL. "Attenuation of Wastewater-Derived Contaminants in an Effluent-Dominated River," *Environ Sci Technol* **2006**, *40*(23):7257-7262. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061308e.

Fono LJ, and Sedlak DL. "Use of the Chiral Pharmaceutical Propranolol to Identify Sewage Discharges into Surface Waters," *Environ Sci Technol* **2005**, *39*(23):9244-9252. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es047965t.

Fono LJ, and Sedlak DL. "A simple method for the measurement of organic iodine in wastewater and surface water," *Wat Res* **2007**, *41*(7):1580-1586. http://www.sciencedirect.com/science/article/B6V73-4N0XNBD-3/2/ce81abd2f96dc0747373a5158c2448d5.

Fontanals N, Marce R, Cormack P, Sherrington D, and Borrull F. "Monodisperse, hypercrosslinked polymer microspheres as tailor-made sorbents for highly efficient solid-phase extractions of polar pollutants from water samples," *J Chromatogr A* **2008**, *1191*(1-2):118-124. http://www.ncbi.nlm.nih.gov/pubmed/18082169.

Foran CM, Peterson BN, and Benson WH. "Transgenerational and developmental exposure of japanese medaka (Oryzias latipes) to ethinylestradiol results in endocrine and reproductive differences in the response to ethinylestradiol as adults," *Toxicol Sci* **2002**, *68*(2):389-402.

Foran CM, Weston J, Slattery M, Brooks BW, and Huggett DB. "Reproductive assessment of Japanese medaka (Oryzias latipes) following a four-week fluoxetine (SSRI) exposure," *Arch Environ Contam Toxicol* **2004**, *46*(4):511-517.

Forbes AJ, Ross AJ, and Rees JA. "Disposal of medicines by the public," *Pharm J* **1989**, *243*(Pharm Prac Res Suppl R9-R11).

Forbes VE. "Is hormesis an evolutionary expectation?," *Functional Ecol* **2000**, *14*(1):12-24. http://www.ingentaconnect.com/content/bsc/fecol/2000/00000014/00000001/art00003

http://dx.doi.org/10.1046/j.1365-2435.2000.00392.x.

Forbes VE, and Calow P. "Is the per capita rate of increase a good measure of population-level effects in ecotoxicology?," *Environ Toxicol Chem* **1999**, *18*(7):1544-1556. http://dx.doi.org/10.1897%2F1551-5028%281999%29018%3C1544%3AITPCRO%3E2.3.CO%3B2.

Forbes VE, Calow P, and Sibly RM. "Are current species extrapolation models a good basis for ecological risk assessment?," *Environ Toxicol Chem* **2001**, *20*(2):442-447. http://dx.doi.org/10.1897%2F1551-5028%282001%29020%3C0442%3AACSEMA%3E2.0.CO%3B2.

Ford RA. "The human safety of the polycyclic musks AHTN and HHCB in fragrances- A review," *Dt Lebensmittle-rundschau* **1998**, *94*:268-275.

Ford RA. "The safety of nitromusks in fragrances - A review," *Deutsche Lebensmittel-Rundschau* **1998**, *94*(6):192-200. http://cat.inist.fr/?aModele=afficheN&cpsidt=2302725.

Ford RA, Api AM, and Newberne PM. "90-day dermal toxicity study and neurotoxicity evaluation of nitromusks in the albino rat," *Food Chem Toxicol* **1990**, 28(1):55-61.

Forni C, Cascone A, Fiori M, and Migliore L. "Sulphadimethoxine and Azolla filiculoides Lam.: a model for drug remediation," *Wat Res* **2002**, *36*(13):3398-3403. http://www.sciencedirect.com/science/article/B6V73-4599450-2/2/c8ea9c50a8c6e22940c17db5a30df56d.

Forte GB, and Alderslade R. "Inappropriate drug-donation practices in Bosnia and Herzegovina, 1992 to 1996," *N Engl J Med* **1997**, *337*(25):1842-1845. http://content.nejm.org/cgi/content/extract/337/25/1842.

Forth W, Henschler D, Rummel W, and Starke K. "Allgemeine und spezielle Pharmakologie und Toxikologie. General and special pharmaceutics and toxicology.," *Wissenschaftsverlag Mannheim/Leipzig/Wien/Zürich, Germany* **1996**, *6*(Auflage).

Fortt AZ, and Buschmann AR. "Use and abuse of antibiotics in salmon farming," OCEANA, January, 2007, 13 pp.

http://www.oceana.org/fileadmin/oceana/uploads/americadelsur/documentos_2007/Uso_antibioticos_e n_la_salmonicultura_version_ingles_.pdf.

Fossi MC, Casini S, Marsili L, Ancora S, Mori G, Neri G, et al. "Evaluation of ecotoxicological effects of endocrine disrupters during a four-year survey of the Mediterranean population of swordfish (Xiphias gladius)," *Mar Environ Res* **2004**, *58*(2-5):425-429. http://www.sciencedirect.com/science/article/B6V7H-4C9HNVS-G/2/e34a2826351ad23bad4a4b53a41f647f.

Fossier P, Blanchard B, Ducrocq C, Leprince C, Tauc L, and Baux G. "Nitric oxide transforms serotonin into an inactive form and this affects neuromodulation," *Neuroscience* **1999**, *93*:597-603. http://www.ingentaconnect.com/content/els/03064522/1999/00000093/00000002/art00165 http://dx.doi.org/10.1016/S0306-4522(99)00165-7. Foster WG. "Endocrine Disruption and Human Reproductive Effects: An Overview "*Wat Qual Res J Canada* **2001**, *36*(3):253-271.

http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5154692&q=auth or%3A%22Foster%22+intitle%3A%22Endocrine+Disruption+and+Human+Reproductive+Effects%3 A+An+...%22+&uid=792698393&setcookie=yes

http://direct.bl.uk/bld/PlaceOrder.do?UIN=096736733&ETOC=RN&from=searchengine.

Foster WG. "Do environmental contaminants adversely affect human reproductive physiology?," *J Obstet Gynaecol Can* **2003**, *25*(1):33-44.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12548323.

Foster WG, and Agzarian J. "Toward less confusing terminology in endocrine disruptor research," *J Toxicol Environ Health Part B Crit Rev* **2008**, *11*(3-4):152-161. http://www.informaworld.com/smpp/content~content=a791733789~db=all~jumptype=rss.

Fountoulakis M, Drillia P, Stamatelatou K, and Lyberatos G. "Toxic effect of pharmaceuticals on methanogenesis," *Water Sci Technol* **2004**, *50*(5):335-340.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15497866.

Fountoulakis MS, Stamatelatou K, and Lyberatos G. "The effect of pharmaceuticals on the kinetics of methanogenesis and acetogenesis," *Bioresource Technol* **2008**, *99*(15):7083-7090. http://www.sciencedirect.com/science/article/B6V24-4RV1JMX-C/1/8fa3e71a1381e85ec9c1907df21e98b5.

Fowler JS, Volkow ND, Wang G-J, Gatley SJ, and Logan J. "[¹¹]Cocaine: PET studies of cocaine pharmacokinetics, dopamine transporter availability and dopamine transporter occupancy," *Nuclear Med Biol* **2001**, *28*(5):561-572. http://www.sciencedirect.com/science/article/B6T9Y-438BVP7-C/2/38ce9fcbf1f58d0e091113a4c38a1204.

Fox JE. "Chemical communication threatened by endocrine-disrupting chemicals," *Environ Health Perspect* **2004**, *112*(6):648-653.

Fox JE. "Non-traditional targets of endocrine disrupting chemicals: The roots of hormone signaling," *Integrative Comparative Biol* **2005**, *45*(1):179-188.

Fox JE, Starcevic M, Jones PE, Burrow ME, and McLachlan JA. "Phytoestrogen signaling and symbiotic gene activation are disrupted by endocrine-disrupting chemicals," *Environ Health Perspect* **2004**, *112*(6):672-677.

Fraker SL, and Smith GR. "Direct and interactive effects of ecologically relevant concentrations of organic wastewater contaminants on Rana pipiens tadpoles," *Environ Toxicol* **2004**, *19*(3):250-256.

Franz S, Altenburger R, Heilmeier H, and Schmitt-Jansen M. "What contributes to the sensitivity of microalgae to triclosan?," *Aqua Toxicol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T4G-4T6M801-2/2/12783d656221f8c5ae3bac3f39be253e.

Fraysse B, and Garric J. "Prediction and experimental validation of acute toxicity of beta-blockers in Ceriodaphnia dubia," *Environ Toxicol Chem* **2005**, *24*(10):2470-2476.

Fraysse B, Mons R, and Garric J. "Development of a zebrafish 4-day embryo-larval bioassay to assess toxicity of chemicals," *Ecotoxicol Environ Safety* **2006**, *63*(2):253-267. http://www.sciencedirect.com/science/article/B6WDM-4F58TCH-3/1/d1dcde9c98e4945649e83cebdbffee5b.

Fredholm L. "Chemical Testing: Sweden to get tough on lingering compounds," *Science* **2000**, *290*(5497):1663-1666.

Freidig AP, Verhaar HJM, and Hermens JLM. "Comparing the potency of chemicals with multiple modes of action in aquatic toxicology: Acute toxicity due to narcosis versus reactive toxicity of acrylic compounds," *Environ Sci Technol* **1999**, *33*:3038-3043. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1999/33/i17/abs/es990251b.html.

Fremont-Smith K. "Letters: Adverse Drug Reactions in Hospitalized Patients," *J Am Med Assoc* **1998**, 280(20):1741-1744. http://jama.ama-assn.org/cgi/content/abstract/280/20/1741.

Friberg M. "'Läkemedel ingår i kretsloppet' (Medicines are part of the eco-cycle)," Fakta 1997, 4:2.

Frick EA, Henderson AK, Moll DM, Furlong ET, and Meyer MT. "Presence of pharamaceuticals in wastewater effluent and drinking water, metropolitan Atlanta, Georgia, July-September 1999," Georgia Water Resources Conference, University of Georgia, Athens, Georgia, 2001, 282.

Fries E, and Puttmann W. "Monitoring of the antioxidant BHT and its metabolite BHT-CHO in German river water and ground water," *Sci Total Environ* **2004**, *319*(1-3):269-282. http://www.sciencedirect.com/science/article/B6V78-49M0R2R-1/2/7e63ff2af4c84b477b5fce5e0668a896.

Froehner K, Backhaus T, and Grimme LH. "Bioassays with Vibrio fischeri for the assessment of delayed toxicity," *Chemosphere* **2000**, *40*(8):821-828. http://www.sciencedirect.com/science/article/B6V74-3YGDD0T-1W/2/454f5bf75f47b1669bc536191c52e99e.

Fromme H, Otto T, and Pilz K. "Polycyclic musk fragrances in different environmental compartments in Berlin (Germany)," *Wat Res* **2001**, *35*(1):121-128. http://www.sciencedirect.com/science/article/B6V73-41NCFHP-D/2/3f4073f50d81c6e4ebf16aa1abc55e6f.

Fromme H, Otto T, and Pilz K. "Polycyclic musk fragrances in fish samples from Berlin waterways, Germany," *Food Additives Contaminants* **2001**, *18*(11):937-944.

Fromme H, Otto T, Pilz K, and Neugebauer F. "Levels of synthetic musks; Bromocyclene and PCBs in eel (anguilla anguilla) and PCBs in sediment samples from some waters of Berlin / Germany," *Chemosphere* **1999**, *39*(10):1723-1735. http://www.sciencedirect.com/science/article/B6V74-3XK7GBR-H/1/4e2739000f028707c777c05448a5b447.

Frost N. "In aquae veritas? – First European meeting on drugs and their metabolites in wastewater," *Drugnet Europe Online* **2007**, *58*(April-June).

Fucci N, De Giovanni N, and Scarlata S. "Sweat testing in addicts under methadone treatment: An Italian experience," *Forensic Sci Internat* **2008**, *174*(2-3):107-110. http://www.scopus.com/scopus/inward/record.url?eid=2-s2.0-37649019586&partnerID=40&rel=R8.0.0.

Fuentes A, Liorens M, and Aguilar MI. "Primary treatment of an effluent from a pharmaceutical synthesis industry using a physical-chemical coagulation-flocculation operation "*Afinidad* **2004**, *61*:33-38.

Fuerhacker M, Durauer A, and Jungbauer A. "Adsorption isotherms of 17 beta-estradiol on granular activated carbon (GAC)," *Chemosphere* **2001**, *44*(7):1573-1579.

Fuerhacker M, Lorbeer G, and Haberl R. "Emission factors and sources of ethylene-diaminetetraacetic acid in waste water--a case study," *Chemosphere* **2003**, *52*(1):253-257. http://www.sciencedirect.com/science/article/B6V74-487MTH5-1/2/88f5fb34daff0791f78a84ad8a4973a6.

Fugh-Berman A, and Ahari S. "Following the Script: How Drug Reps Make Friends and Influence Doctors," *PLoS Med* **2007**, *4*(4):e150. http://dx.doi.org/10.1371%2Fjournal.pmed.0040150 http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=17455991#id2617906.

Fujioka Y. "Effects of hormone treatments and temperature on sex-reversal of Nigorobuna Carassius carassius grandoculis," *Fisheries Sci* **2002**, *68*(4):889-893. http://www.blackwell-synergy.com/doi/abs/10.1046/j.1444-2906.2002.00507.x.

Fukutsu N, Kawasaki T, Saito K, and Nakazawa H. "An Approach for Decontamination of .BETA.-Lactam Antibiotic Residues or Contaminants in the Pharmaceutical Manufacturing Environment," *Chem Pharm Bull* **2006**, *54*(9):1340-1343. http://joi.jlc.jst.go.jp/JST.JLC/AID/6d45e46d45c048c9096820816c869114086435f40d7ca35f?from=J ST&type=list&lang=en.

Furlong ET, Ferrer I, Gates PM, Cahill JD, and Thurman EM. "Identification of labile polar organic contaminants by atmospheric-pressure ionization tandem mass spectrometry," in ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants Almagor UM, Ed., American Chemical Society, 2003, Chapter 11, 175-187. http://www.powells.com/biblio?isbn=9780841238251.

Furlong ET, Kinney CA, Ferrer I, Werner S, Cahill J, and Ratterman G. "Pharmaceuticals and personal care products in solids: Analysis and field results for sediment, soil and biosolid samples," *Abstracts of Papers of the Amer Chem Soc* **2004**, *228*(1 August 22):U620-U620.

Furlong ET, Kinney CA, Ferrer I, Werner SL, and Ratterman G. "Determination of human health pharmaceuticals and antimicrobials in terrestrial and aquatic solids," **2008**, *In progress*.

Furlong ET, Werner SL, Anderson BD, and Cahill JD. "Determination of Human-Health Pharmaceuticals in Filtered Water by Chemically Modified Styrene-Divinylbenzene Resin-Based Solid-Phase Extraction and High-Performance Liquid Chromatography/Mass Spectrometry," in US Geological Survey Techniques and Methods, book 5, 2008, sec. B, chap. B5, 56 pp. http://pubs.usgs.gov/tm/tm5b5/.

Furuichi T, Kannan K, Giesy JP, and Masunaga S. "Contribution of known endocrine disrupting substances to the estrogenic activity in Tama River water samples from Japan using instrumental analysis and in vitro reporter gene assay," *Wat Res* **2004**, *38*(20):4491-4501. http://www.sciencedirect.com/science/article/B6V73-4DFT1FW-2/2/a243ed348ef334505602b3754b35916d.

Furuichi T, Kannan K, Suzuki K, Tanaka S, Giesy JP, and Masunaga S. "Occurrence of estrogenic compounds in and removal by a swine farm waste treatment plant," *Environ Sci Technol* **2006**, *40*(24):7896-7902. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i24/html/es0609598.html.

Gabet V, Miege C, Bados P, and Coquery M. "Analysis of estrogens in environmental matrices," *TrAC Trends in Analytical Chemistry* **2007**, *26*(11):1113-1131. http://www.sciencedirect.com/science/article/B6V5H-4PYGVMX-2/2/795b664017b9459160383985e1d51c0f.

Gagne F, Andre C, Cejka P, Gagnon C, and Blaise C. "Toxicological effects of primary-treated urban wastewaters, before and after ozone treatment, on freshwater mussels (Elliptio complanata)," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2007**, *145*(4):542-552. http://www.sciencedirect.com/science/article/B6W89-4N3WYKT-4/2/edb12a332a3292835ce59ae1f48ebbe4.

Gagne F, Andre C, Cejka P, Hausler R, Fournier M, and Blaise C. "Immunotoxic effects on freshwater mussels of a primary-treated wastewater before and after ozonation: A pilot plant study," *Ecotoxicol Environ Safety* **2008**, *69*(3):366-373. http://www.sciencedirect.com/science/article/B6WDM-4RWC887-1/2/eea26029b9a720598baa074a57dfae14.

Gagne F, Berube E, Fournier M, and Blaise C. "Inflammatory properties of municipal effluents to Elliptio complanata mussels -- lack of effects from anti-inflammatory drugs," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2005**, *141*(4):332-337. http://www.sciencedirect.com/science/article/B6W89-4GYNY92-1/2/914c6fb82339b46df613141b619998d9.

Gagne F, and Blaise C. "Effects of municipal effluents on serotonin and dopamine levels in the freshwater mussel Elliptio complanata," *Comp Biochem Physiol C Toxicol Pharmacol* **2003**, *136*(2):117-125. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =14559293.

Gagne F, Blaise C, and Andre C. "Occurrence of pharmaceutical products in a municipal effluent and toxicity to rainbow trout (Oncorhynchus mykiss) hepatocytes," *Ecotoxicol Environ Safety* **2006**, *64*(3):329-336. http://www.sciencedirect.com/science/article/B6WDM-4G94HMM-3/2/9c3f7cdecee862a68d3195518d784e41.

Gagne F, Blaise C, Andre C, Gagnon C, and Salazar M. "Neuroendocrine disruption and health effects in Elliptio complanata mussels exposed to aeration lagoons for wastewater treatment," *Chemosphere*

2007, *68*(4):731-743. http://www.sciencedirect.com/science/article/B6V74-4N3X0GP-2/2/ad2a23aff19ff8153dcc9abb070f81e7.

Gagne F, Blaise C, Fournier M, and Hansen PD. "Effects of selected pharmaceutical products on phagocytic activity in Elliptio complanata mussels," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2006**, *143*(2):179-186. http://www.sciencedirect.com/science/article/B6W89-4JGBF5B-1/2/e4920e549cc9eb185ab874a090c870da.

Gagne F, Blaise C, and Hellou J. "Endocrine disruption and health effects of caged mussels, Elliptio complanata, placed downstream from a primary-treated municipal effluent plume for 1 year," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2004**, *138*(1):33-44. http://www.sciencedirect.com/science/article/B6W89-4CPVHJW-1/2/b8096be0d01bc6a3e20aeac150c8ea23.

Gagne F, Blaise C, Lachance B, Sunahara GI, and Sabik H. "Evidence of coprostanol estrogenicity to the freshwater mussel Elliptio complanata," *Environ Pollut* **2001**, *115*(1):97-106. http://www.sciencedirect.com/science/article/B6VB5-43TP7HN-C/2/230f6bad72657af972ada13805b4bcbf.

Gagne F, Blaise C, Salazar M, Salazar S, and Hansen PD. "Evaluation of estrogenic effects of municipal effluents to the freshwater mussel Elliptio complanata," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2001**, *128*(2):213-225. http://www.sciencedirect.com/science/article/B6W89-437B3NY-8/2/1d6d4e45ded938e924f7e3aea38f4b3c.

Gagne F, Eullaffroy P, and Blaise C. "Development of a competitive enzymatic immunoassay for carbamazepine in biological tissues," *Fres Environ Bull* **2006**, *15*(12A,S1):1512-1516.

Gagne F, Fournier M, and Blaise C. "Serotonergic effects of municipal effluents: Induced spawning activity in freshwater mussels," *Fres Environ Bull* **2006**, *13*(11A):1099-1103.

Gaido KW, McDonnell DP, Korach KS, and Safe SH. "Estrogenic activity of chemical mixtures: Is there synergism?," *CIIT Activities* **1997**, *17*(2):1-7.

Gaini LE, Lakraimi M, Sebbar E, Meghea A, and Bakasse M. "Removal of indigo carmine dye from water to Mg-Al-CO3-Calcined layered double hydroxides," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SD29W8-1/1/e108f364b8d5fba9c465adc373db9d0c.

Gale P. "Quantitative BSE risk assessment: relating exposures to risk," *Lett Appl Microbiol* **1998**, 27(5):239-242. http://www.blackwell-synergy.com/doi/abs/10.1046/j.1472-765X.1998.00449.x.

Gale WL, Fitzpatrick MS, Lucero M, Contreras-Sánchez WM, and Schreck CB. "Masculinization of Nile tilapia (Oreochromis niloticus) by immersion in androgens," *Aquaculture* **1999**, *178*(3-4):349-357. http://www.sciencedirect.com/science/article/B6T4D-3WV409G-C/1/b0dbe32ce254797f2cd34956aa43a84d.

Gale WL, Patino R, and Maule AG. "Interaction of xenobiotics with estrogen receptors [alpha] and [beta] and a putative plasma sex hormone-binding globulin from channel catfish (Ictalurus punctatus),"

General Comparative Endocrinol **2004**, *136*(3):338-345. http://www.sciencedirect.com/science/article/B6WG0-4BSVP2G-3/2/6ac9593d9ed8b26e1c5d14c04b8d6fad.

Galli R, and Braun C. "Integrative risk assessment of endocrine disruptors in Switzerland," *CHIMIA* **2008**, *62*(5):417-423. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000005/art00019.

Gallo P, Nasi A, Vinci F, Guadagnuolo G, Brambilla G, Fiori M, et al. "Development of a liquid chromatography/electrospray tandem mass spectrometry method for confirmation of chloramphenicol residues in milk after alfa-1-acid glycoprotein affinity chromatography," *Rapid Commun Mass Spectrom* **2005**, *19*(4):574-579.

Galvez JI, Mazik PM, Phelps RP, and Mulvaney DR. "Masculinization of channel catfish ictalurus punctatus by oral administration of trenbolone acetate," *J World Aquaculture Soc* **1995**, *26*(4):378-383.

Galvin D. "Household pharmaceutical disposal: Issue overview," 2007. http://www.productstewardship.net/powerpoints/productsPharmaceuticalsOverview040607.ppt.

Gamiz-Gracia L, and Luque de Castro MD. "Integrated pervaporation/detection for the determination of fluoride in pharmaceuticals," *J Pharmaceutical Biomed Anal* **2000**, *22*(6):909-913. http://www.sciencedirect.com/science/article/B6TGX-408TTRR-3/2/a760341d10f5aa53845002c70a42f3ce.

Gangagni Rao A, Venkata Naidu G, Krishna Prasad K, Chandrasekhar Rao N, Venkata Mohan S, Jetty A, et al. "Anaerobic treatment of wastewater with high suspended solids from a bulk drug industry using fixed film reactor (AFFR)," *Bioresource Technology* **2005**, *96*(1):87-93. http://www.sciencedirect.com/science/article/B6V24-4CS4MT0-3/2/f1dca891337b98b819bbafe36c83556f.

Ganiyant AM. "The toxicological evaluation of sewage effluents and pharmaceuticals with the use of zebrafish as a model organism," Masters Dissertation, Swedish University of Agricultural Sciences (SLU), Department of Biomedical Sciences and Veterinary Public Health, Uppsala, Sweden, 2008. pp.

Gans O, Sattelberg R, and Scharf S. "Analysis of selected pharmaceuticals in influents and effluents of municipal sewage treatment plants in Austria," *Vom Wasser* **2002**, *98*:165-176.

Gao J, and Pedersen JA. "Adsorption of Sulfonamide Antimicrobial Agents to Clay Minerals," *Environ Sci Technol* **2005**, *39*(24):9509-9516. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es050644c.

Gao Y, Sun X, Sun Z, Zhao N, and Li Y. "Toxic effects of enrofloxacin on growth rate and catalase activity in Eisenia fetida," *Environ Toxicol Pharmacol* **2008**, *26*(2):177-180. http://www.sciencedirect.com/science/article/B6T6D-4S32NN7-4/2/b90cbc95ee9d1eb600c944ed6ecd079b.

Gao Y, Sun Z, Sun X, Sun Y, and Shi W. "Toxic effects of albendazole on adenosine triphosphatase activity and ultrastructure in Eisenia fetida," *Ecotoxicol Environ Safety* **2007**, *67*(3):378-384.

http://www.sciencedirect.com/science/article/B6WDM-4NHM6SG-1/1/555c3ede446a786dc88af69fcee47b2e.

Garcia A, Rivas HM, Figueroa JL, and Monroe AL. "Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company," *Desalination* **1995**, *102*(1-3):255-263. http://www.ingentaconnect.com/content/els/00119164/1995/00000102/00000001/art00061 http://dx.doi.org/10.1016/0011-9164(95)00061-6

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TFX-3Y5FD1G-X&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version= 1&_urlVersion=0&_userid=14684&md5=f634f498f79cd665015e38d113dfe19a.

Garcia J, Marquez A, Ruiz R, Lopez LF, Claro C, and Lucero MJ. "Determination of foscarnet (trisodium phosphonoformate) in pharmaceutical preparations by high-performance liquid chromatography with ultraviolet detection," *Biomedical Chromatogr* **2006**, *20*:1024-1027.

García MDG, Culzoni MJ, De Zan MM, Valverde RS, Galera MM, and Goicoechea HC. "Solving matrix effects exploiting the second-order advantage in the resolution and determination of eight tetracycline antibiotics in effluent wastewater by modelling liquid chromatography data with multivariate curve resolution-alternating least squares and unfolded-partial least squares followed by residual bilinearization algorithms: II. Prediction and figures of merit," *J Chromatogr A* 2008, *1179*(2):115-124. http://www.sciencedirect.com/science/article/B6TG8-4R644MX-1/1/cce6274910cec7091690f1b102136151.

Garcia S, Wade B, Bauer C, Craig C, Nakaoka K, and Lorowitz W. "The effect of wastewater treatment on antibiotic resistance in Escherichia coli and Enterococcus sp," *Wat Environ Res* **2007**, *79*(12):2387-2395. http://www.ncbi.nlm.nih.gov/pubmed/18044355.

Garcia T, "Pharmaceutical drugs appearing in Europe's drinking water," *Elsevier Science - News Page* March 24, 1998.

García-Jares C, Llompart M, Polo M, Salgado C, Macías S, and Cela R. "Optimisation of a solid-phase microextraction methon for synthetic musk compounds in water," *J Chromatogr A* **2002**, *963*(1-2):277-285.

Garcia-Prieto A, Lunar L, Rubio S, and Perez-Bendito D. "Hemimicelle-based solid-phase extraction of estrogens from environmental water samples," *Anal Bioanal Chem* **2006**, *131*(3):407-414.

Garcia-Reyero N, Adelman I, Liu L, and Denslow N. "Gene expression profiles of Fathead minnows exposed to surface waters above and below a sewage treatment plant in Minnesota," *Mar Environ Res* **2008**, *66*(1):134-136. http://www.sciencedirect.com/science/article/B6V7H-4S0PKCM-1/2/425b1b26e39190e0e9295b62a273d52a.

Gardinali PR, and Zhao X. "Trace determination of caffeine in surface water samples by liquid chromatography-atmospheric pressure chemical ionization-mass spectrometry (LC-APCI-MS)," *Environment International* **2002**, *28*(6):521-528. http://www.sciencedirect.com/science/article/B6V7X-47261R2-1/2/072026867b5f13377279a8963b731a39. Garey KW, Johle ML, Behrman K, and Neuhauser MM. "Economic Consequences of Unused Medications in Houston, Texas," *Ann Pharmacother* **2004**, *38*(7):1165-1168. http://www.theannals.com/cgi/content/abstract/38/7/1165.

Garfield E, Paris SW, and Stock WG. "HistCite[™] : A software tool for informetric analysis of citation linkage," *Information Wissenschaft und Praxis* **2006**, *57*(8):391-400. http://cat.inist.fr/?aModele=afficheN&cpsidt=18324335 http://phil-fak.uni-duesseldorf.de/infowiss/admin/public_dateien/files/1/1166781999eugenegarf.pdf.

Garric J, Ferrari B, Fraysse B, Mons R, and Vollat B. "Impact de médicaments à usage humain sur les organisms aquatiques d'eau douce," *Environment Risques et Santé* **2006**, *5*:290-295.

Garric J, Ferrari B, Fraysse B, Mons R, and Vollat B. "Effects of some human pharmaceuticals on freshwater organisms," *Environment, Risques & Sante* **2006**, *5*(4):290-295. http://www.jle.com/en/revues/sante pub/ers/e-docs/00/04/1D/01/resume.md?type=text.html.

Garric J, Vollat B, Duis K, Péry A, Junker T, Ramil M, et al. "Effects of the parasiticide ivermectin on the cladoceran Daphnia magna and the green alga Pseudokirchneriella subcapitata," *Chemosphere* **2007**, *69*(6):903-910. http://www.sciencedirect.com/science/article/B6V74-4P59RRF-6/1/c8d82e6ce42dc4442560debf86cc75d1.

Garrison AW, Pope JD, and Allen FR. "GC/MS Analysis of Organic Compounds in Domestic Wastewaters," in *Identification and Analysis of Organic Pollutants in Water*, Keith CH, Ed., Ann Arbor Science Publishers; Ann Arbor, MI, 1976, 517-556.

Garrison AW, Pope JD, and Allen FR. "Identification and analysis of organic pollutants in water." Ann Arbor, MI, Ann Arbor Science Publishers Inc., 1976, pp.

Garrison VH, Shinn EA, Foreman WT, Griffin DW, Holmes CW, Kellogg CA, et al. "African and Asian dust: From desert soils to coral reefs," *Bioscience* **2003**, *53*(50):469-480.

Gartiser S, Urich E, Alexy R, and Kummerer K. "Ultimate biodegradation and elimination of antibiotics in inherent tests," *Chemosphere* **2007**, *67*(3):604-613. http://www.sciencedirect.com/science/article/B6V74-4MJJC0X-8/2/9f735572b37349d69c68c9207877b31b.

Gartiser S, Urich E, Alexy R, and Kummerer K. "Anaerobic inhibition and biodegradation of antibiotics in ISO test schemes," *Chemosphere* **2007**, *66*(10):1839-1848. http://www.sciencedirect.com/science/article/B6V74-4M9H3H8-2/2/3000d7f4d634ff19ba8fe5e855c39c51.

Gaskell PN. "Variation in the bioaccumulation of a sediment-sorbed hydrophobic compound by benthic macroinvertebrates: paterns and mechanisms," *Environ Sci Technol* **2007**, *41*(5):1783-1789. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i05/abs/es061934b.html.

Gatermann R, Biselli S, Hühnerfuss H, Rimkus GG, Franke S, Hecker M, et al. "Synthetic Musks in the Environment. Part 2: Enantioselective Transformation of the Polycyclic Musk Fragrances HHCB, AHTN, AHDI, and ATII in Freshwater Fish," *Arch Environ Contam Toxicol* **2002**, *42*(4):447-453. http://dx.doi.org/10.1007/s00244-001-0042-1.

Gatermann R, Biselli S, Hühnerfuss H, Rimkus GG, Hecker M, and Karbe L. "Synthetic Musks in the Environment. Part 1: Species-Dependent Bioaccumulation of Polycyclic and Nitro Musk Fragrances in Freshwater Fish and Mussels," *Arch Environ Contam Toxicol* **2002**, *42*:437-446.

Gatermann R, Hellou J, Huhnerfuss H, Rimkus G, and Zitko V. "Polycyclic and nitro musks in the environment: A comparison between Canadian and European aquatic biota," *Chemosphere* **1999**, *38*(14):3431-3441. http://www.sciencedirect.com/science/article/B6V74-3WSVRWR-M/2/0b7f263b8d2e9d2591e274811f429a9f.

Gatermann R, Huhnerfuss H, Rimkus G, Attar A, and Kettrup A. "Occurrence of musk xylene and musk ketone metabolites in the aquatic environment," *Chemosphere* **1998**, *36*(11):2535-2547. http://www.sciencedirect.com/science/article/B6V74-3SX809Y-B/2/9300aba5c2243344cd993ad2361392dc.

Gatermann R, Huhnerfuss H, Rimkus G, Wolf M, and Franke S. "The distribution of nitrobenzene and other nitroaromatic compounds in the North Sea," *Mar Pollut Bull* **1995**, *30*(3):221-227. http://www.sciencedirect.com/science/article/B6V6N-3YMFRF5-38/2/59a002a9942c6a547a29a9b6200b0662.

Gatidou G, Thomaidis NS, Stasinakis AS, and Lekkas TD. "Simultaneous determination of the endocrine disrupting compounds nonylphenol, nonylphenol ethoxylates, triclosan and bisphenol A in wastewater and sewage sludge by gas chromatography-mass spectrometry," *J Chromatogr A* 2007, *1138*(1-2):32-41. http://www.sciencedirect.com/science/article/B6TG8-4M7CDHG-6/2/07989c6bcc0f8141b86821afedb32171.

Gatti R, Gioia MG, Di Pietra AM, and Cavrini V. "HPLC-fluorescence determination of unconjugated estrogens in pharmaceuticals," *J Pharmaceutical Biomed Anal* **1998**, *18*(1-2):187-192. http://www.sciencedirect.com/science/article/B6TGX-3V5KVST-P/2/94a2898003d5fc1d39af3bd9f6090101.

Gatti R, Gotti R, Gioia MG, and Cavrini V. "HPLC analysis of pharmaceutical estrogens in raw materials and dosage forms," *J Pharmaceutical Biomed Anal* **1998**, *17*(2):337-347. http://www.sciencedirect.com/science/article/B6TGX-3T17S77-K/2/00bbcd69b75d1a8491d9e2b92828c4a1.

Gautam AK, Kumar S, and Sabumon PC. "Preliminary study of physico-chemical treatment options for hospital wastewater," *J Environ Management* **2007**, *83*(3):298-306. http://www.sciencedirect.com/science/article/B6WJ7-4KBVX0M-2/2/b78c917d3e15e76a07366c046d2ce864.

Gaworecki KM, and Klaine SJ. "Behavioral and biochemical responses of hybrid striped bass during and after fluoxetine exposure," *Aqua Toxicol* **2008**, *88*(4):207-213. http://www.sciencedirect.com/science/article/B6T4G-4SDPX47-1/1/924cac7b5c71ab2e89179361e3d2b961.

Gebhardt W, and Schroder HF. "Liquid chromatography-(tandem) mass spectrometry for the followup of the elimination of persistent pharmaceuticals during wastewater treatment applying biological wastewater treatment and advanced oxidation," *J Chromatogr A* **2007**, *1160*(1-2):34-43. http://www.sciencedirect.com/science/article/B6TG8-4NVH7WF-B/2/497f79259e53dcc41496f2633466c280.

Gebhart F. "Agencies flush original strategies in favor of promoting drug take-back programs," *Drug Topics* **2008**, *152*(9)

http://drugtopics.modernmedicine.com/drugtopics/article/articleDetail.jsp?id=534510.

Gee D. "Late lessons from early warnings: the precautionary principle 1896-200," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 9, 126 -138. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Geiselman B, "Hospitals adapt to changing field," Waste News 2002, http://www.wastenews.com.

Geiselman B, "Market focus: Health care - A prescription for headaches," *Waste News* 2002, http://www.wastenews.com.

Gentile JH. "Invited debate/commentary Hormesis in ecology and ecological assessments," *Human Ecolog Risk Assess* **2000**, *6*(2):223-226.

Gentile JH, and van der Schalie WH. "Hormesis and ecological risk assessment: fact or fantasy?," *Human Ecolog Risk Assess* **2000**, *6*(2):227-236.

Gentili A. "Determination of non-steroidal anti-inflammatory drugs in environmental samples by chromatographic and electrophoretic techniques," *Anal Bioanal Chem* **2007**, *387*(4):1185-1202.

Gentili A. "LC-MS methods for analyzing anti-inflammatory drugs in animal-food products," *TrAC Trends Anal Chem* **2007**, *26*(6):595-608. http://www.sciencedirect.com/science/article/B6V5H-4MX56BN-1/2/2f7cac1276bb0f89ebf647a11bff8b82.

Gentili A, Perret D, and Marchese S. "Liquid chromatography-tandem mass spectrometry for performing confirmatory analysis of veterinary drugs in animal-food products," *TrAC Trends in Anal Chem* **2005**, *24*(7):704-733. http://www.sciencedirect.com/science/article/B6V5H-4G7DXVF-1/2/31f8133c66e72d7d4c3ef354babfe6c8.

Gentili A, Perret D, Marchese S, Mastropasqua R, Curini R, and Di Corcia A. "Analysis of free estrogens and their conjugates in sewage and river waters by solid-phase extraction then liquid chromatography-electrospray-tandem mass spectrometry," *Chromatographia* **2002**, *56*(1-2):25-32.

Genuis SJ. "The chemical erosion of human health: adverse environmental exposure and in-utero pollution determinants of congenital disorders and chronic disease," *J Perinatal Medicine* **2006**, *34*(3):185-195.

Georga KA, Samanidou VF, and Papadoyannis IN. "Use of novel solid-phase extraction sorbent materials for high-performance liquid chromatography quantitation of caffeine metabolism products methylxanthines and methyluric acids in samples of biological origin," *J Chromatogr B: Biomed Sci Applications* **2001**, *759*(2):209-218.

http://www.ingentaconnect.com/content/els/03784347/2001/00000759/00000002/art00251

http://dx.doi.org/10.1016/S0378-4347(01)00251-1.

Gerlach C. "International research targets endocrine-disrupting compounds," *Today's Chemist at Work* **1998**:67-72.

Geurts MGJ, de Boer W, de Graaf JS, and van Ginkel CG. "Environmental exposure assessment of ethinyl estradiol (EE) from a combined hormonal vaginal contraceptive ring after disposal; leaching from landfills," *Sci Total Environ* **2007**, *377*(2-3):366-370. http://www.sciencedirect.com/science/article/B6V78-4NBY8KP-5/2/3cd6f0bc352995adb11b3752e738f98a.

Geyer HJ, Rimkus G, Wolf M, Attar A, Steinberg C, and Kettrup A. "Synthetische Nitromoschus-Duftstoffe and Bromocyclen - neue Umweltchemikalien in Fischen und Muscheln bzw. Muttermilch und Humanfett (Synthetic nitro musk fragrances and bromocyclen - new environmental chemicals in fish and mussels as well as in breast milk and human lipids)," *Z Umweltchem Ökotox* **1994**, *6*(1):9-17.

Gheorghe A, van Nuijs A, Pecceu B, Bervoets L, Jorens PG, Blust R, et al. "Analysis of cocaine and its principal metabolites in waste and surface water using solid-phase extraction and liquid chromatography-ion trap tandem mass spectrometry," *Anal Bioanal Chem* **2008**, *391*(4):1309-1319. http://www.ingentaconnect.com/content/klu/216/2008/00000391/00000004/00001754;jsessionid=5duj 9bl7uv5h9.alexandra?format=print.

Ghiselli G, and Jardim WF. "Endocrine disruptors in the environment," *Quimica Nova* **2007**, *30*(3):695-706.

Ghoneim EM, El-Desoky HS, and Ghoneim MM. "Adsorptive cathodic stripping voltammetric assay of the estrogen drug ethinylestradiol in pharmaceutical formulation and human plasma at a mercury electrode," *J Pharmaceutical Biomed Anal* **2006**, *40*(2):255-261. http://www.sciencedirect.com/science/article/B6TGX-4H27C23-3/2/e0452f9b8bb4409e3f3fac5f479458ca.

Ghosh S, and LaPara TM. "The effects of subtherapeutic antibiotic use in farm animals on the proliferation and persistence of antibiotic resistance among soil bacteria," *ISME J* **2007**, *1*(3):191-203. http://dx.doi.org/10.1038/ismej.2007.31.

Ghous T. "Flow injection analysis (FIA)," J Chem Soc Pakistan 1999, 21:375-381.

Giardino VG, and Guglielmetti JL. "Long-Term Performance of a Hazardous Waste Landfill," *Geotextiles Geomembranes* **1997**, *15*(406):255-267. http://www.ingentaconnect.com/content/els/02661144/1997/00000015/00000004/art10008 http://dx.doi.org/10.1016/S0266-1144(97)10008-5.

Gibbs SG, Green CF, Tarwater PM, Mota LC, Mena KD, and Scarpino PV. "Isolation of antibioticresistant bacteria from the air plume downwind of a swine confined or concentrated animal feeding operation," *Environ Health Perspect* **2006**, *114*(7):1032-1037. <Go to ISI>://CCC:000239035100033.

Gibotti A, Saridakis HO, Pelayo JS, Tagliari KC, and Falcao DP. "Prevalence and virulence properties of Vibrio cholerae non-O1, Aeromonas spp. and Plesiomonas shigelloides isolated from Cambe Stream (State of Parana, Brazil)," *J Appl Microbiol* **2000**, *89*:70-75.

Gibs J, Stackelberg PE, Furlong ET, Meyer M, Zaugg SD, and Lippincott RL. "Persistence of pharmaceuticals and other organic compounds in chlorinated drinking water as a function of time," *Sci Total Environ* **2007**, *373*(1):240-249. http://www.sciencedirect.com/science/article/B6V78-4MMP28V-4/2/7201e591e9bcc6bd813ea90aa39c7541.

Gibson R, Becerril-Bravo E, Silva-Castro V, and Jimenez B. "Determination of acidic pharmaceuticals and potential endocrine disrupting compounds in wastewaters and spring waters by selective elution and analysis by gas chromatography-mass spectrometry," *J Chromatogr A* **2007**, *1169*(1-2):31-39. http://www.sciencedirect.com/science/article/B6TG8-4PJ6GK0-6/2/e699cb19a64794f328bfaee0a5df940a.

Gibson R, Smith MD, Spary CJ, Tyler CR, and Hill EM. "Mixtures of estrogenic contaminants in bile of fish exposed to wastewater treatment works effluents," *Environ Sci Technol* **2005**, *39*(8):2461-2471. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i08/abs/es048892g.html.

Gibson R, Tyler CR, and Hill EM. "Analytical methodology for the identification of estrogenic contaminants in fish bile," *J Chromatogr A* **2005**, *1066*(1-2):33-40. http://www.sciencedirect.com/science/article/B6TG8-4FCRFJ5-4/2/e224901a673c2d1fe209e5ba7867d45e.

Gielen GJHP. "The fate and effects of sewage-derived pharmaceuticals in soil," Doctoral Dissertation, University of Canterbury, Christchurch, New Zealand, 2007. 192 pp. http://digital-library.canterbury.ac.nz/data/collection3/etd/adt-NZCU20071009.112712/02whole.pdf.

Gies A. "Government view of endocrine disruption in wildlife," *Pure Appl Chem* **2003**, *75*(11-12):2563-2574.

Giese C, Miethe N, and Schlenker G. "Biodegradation of estrogens in stream water," *Berliner und Munchener Tierarztliche Wochenschrift* **2007**, *120*(3-4):141-147.

Giesy JP, Snyder EM, Nichols KM, Snyder SA, Villalobos SA, Jones PD, et al. "Examination of reproductive endpoints in goldfish (Carassius auratus) exposed in situ to municipal sewage treatment plant effluent discharges in Michigan, USA," *Environ Toxicol Chem* **2003**, *22*(10):2416-2431.

Giger W, Alder AC, Golet EM, Kohler HPE, McArdell CS, Molnar E, et al. "Occurrence and fate of antibiotics as trace contaminants in wastewaters, sewage sludges, and surface waters," *CHIMIA* **2003**, *57*(9):485-491. http://scholar.google.com/scholar?hl=en&rls=GGLG,GGLG:2006-12,GGLG:en&q=author:%22Giger%22+intitle:%22Occurrence+and+Fate+of+Antibiotics+as+Trace+Contaminants+...%22+&um=1&ie=UTF-8&oi=scholarr.

Giger W, Schaffner C, and Kohler HPE. "Benzotriazole and Tolyltriazole as Aquatic Contaminants. 1. Input and Occurrence in Rivers and Lakes," *Environ Sci Technol* **2006**, *40*(23):7186-7192. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061565j.

Gikas E, Kormali P, Tsipi D, and Tsarbopoulos A. "Development of a rapid and sensitive SPE-LC-ESI MS/MS method for the determination of chloramphenicol in seafood," *J Agric Food Chem* **2004**, *52*(5):1025-1030.

Gilbert P, and McBain A, J,. "Potential impact of increased use of biocides in consumer products on prevalence of antibiotic resistance," *Clin Microbiol Rev* **2003**, *16*(2):189-208.

Gilbert-Lopez B, Llorent-Martinez EJ, Ortega-Barrales P, and Molina-Diaz A. "Development of a multicommuted flow-through optosensor for the determination of a ternary pharmaceutical mixture," *J Pharmaceutical Biomed Anal* **2007**, *43*(2):515-521.

http://www.sciencedirect.com/science/article/B6TGX-4KWTFD3-2/2/97201689613379e1153409150a9b63e1.

Gilchrist MJ, Greko C, Wallinga DB, Beran GW, Riley DG, and Thorne PS. "The potential role of concentrated animal feeding operations in infectious disease epidemics and antibiotic resistance," *Environ Health Perspect* **2007**, *115*(2):313-316. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pmcentrez&artid=1817683.

Giles J. "Tamper-proof prescription drugs may halt abuse," New Sci 2008, 29 June(2662):8-9.

Gillies H. "A responsible attitude to waste disposal," *In Pract* **2001**, *23*(1):53-54. http://inpractice.bvapublications.com/cgi/content/abstract/23/1/53.

Ginsburg I. "The disregard syndrome: A menace to honest science?," *The Scientist* **2001**, (10 December):51.

Giokas DL, Sakkas VA, and Albanis TA. "Determination of residues of UV filters in natural waters by solid-phase extraction coupled to liquid chromatography-photodiode array detection and gas chromatography-mass spectrometry," *J Chromatogr A* **2004**, *1026*(1-2):289-293. http://www.sciencedirect.com/science/article/B6TG8-4B6KGVY-1/2/169c8be3c6c99dfce8bb42724f98f78a.

Giokas DL, Sakkas VA, and Albanis TA. "Erratum to "Determination of residues of UV filters in natural waters by solid-phase extraction coupled to liquid chromatography-photodiode array detection and gas chromatography-mass spectrometry" [J. Chromatogr. A 1026 (2004) 289-293]," *J Chromatogr A* 2005, *1068*(2):339. http://www.sciencedirect.com/science/article/B6TG8-4FH5K7K-1/2/c2e01d4b9507a1565bca7c146feb191f.

Giokas DL, Sakkas VA, Albanis TA, and Lampropoulou DA. "Determination of UV-filter residues in bathing waters by liquid chromatography UV-diode array and gas chromatography-mass spectrometry after micelle mediated extraction-solvent back extraction," *J Chromatogr A* **2005**, *1077*(1):19-27. http://www.sciencedirect.com/science/article/B6TG8-4G5BJMM-6/2/324c2f8e9c01cbc8b5bf6725bc0fd040.

Giokas DL, Salvador A, and Chisvert A. "UV filters: From sunscreens to human body and the environment," *TrAC Trends in Anal Chem* **2007**, *26*(5):360-374. http://www.sciencedirect.com/science/article/B6V5H-4N859VC-1/2/95680c4a69c5a2d991ecacae38f24cc7.

Giraud E, Douet DG, Le Bris H, Bouju-Albert A, Donnay-Moreno C, Thorin C, et al. "Survey of antibiotic resistance in an integrated marine aquaculture system under oxolinic acid treatment," *FEM Microbiol Ecol* **2006**, *55*(3):439-448.

Girones R. "Tracking viruses that contaminate environments," Microbe 2006, 1(1):19-24.

Giuliani F, Koller T, Wurgler FE, and R.M. W. "Detection of genotoxic activity in native hospital waste water by the umuC test," *Mutation Res/Genetic Toxicol* **1996**, *368*(1):49-57.

Glaser A. "The ubiquitous triclosan: a common antibacterial agent exposed," *Pesticides and You* **2004**, *24*(3):12-17.

Glassmeyer ST, Furlong ET, Kolpin DW, Cahill JD, Zaugg SD, Werner SL, et al. "Transport of Chemical and Microbial Compounds from Known Wastewater Discharges: Potential for Use as Indicators of Human Fecal Contamination," *Environ Sci Technol* **2005**, *39*(14):5157-5169. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048120k.

Glassmeyer ST, Hinchey EK, Boehme SE, Daughton CG, Ruhoy IS, Conerly O, et al. "Disposal Practices for Unwanted Residential Medications in the United States," *Environ Internat* **2008**, *Submitted April 2008*.

Glassmeyer ST, Kolpin DW, Furlong ET, and Focazio MJ. "Environmental Presence and Persistence of Pharmaceuticals: An Overview," in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press, Taylor and Francis Books; Boca Raton, FL, 2007, December 20. http://findarticles.com/p/articles/mi_m0QLT/is_2008_March/ai_n24919373.

Glassmeyer ST, and Shoemaker JA. "Effects of chlorination on the persistence of pharmaceuticals in the environment," *Bull Environ Contam Toxicol* **2005**, *74*(1):24-31.

GlaxoSmithKline. "Global Public Policy Issues: GlaxoSmithKline's Position - Pharmaceuticals in the Environment," January, 2006, 7 pp. http://www.gsk.com/policies/GSK-on-pharmaceuticals-in-environment.pdf.

Global Water Research Coalition. "Pharmaceuticals and personal care products in the water cycle," Kiwa Water Research and Stowa, The Netherlands, 2004, 73 pp. www.globalwaterresearchcoalition.net/organisation.htm

Gobel A. "Occurrence and fate of sulfonamide and macrolide antimicrobials in wastewater treatment," Doctoral Dissertation, Eidgenoessische Technische Hochschule Zuerich Switzerland, 2004. 163 pp.

Gobel A, McArdell CS, Joss A, Siegrist H, and Giger W. "Fate of sulfonamides, macrolides, and trimethoprim in different wastewater treatment technologies," *Sci Total Environ* **2007**, *372*(2-3):361-371. http://www.sciencedirect.com/science/article/B6V78-4MFJJ37-1/2/52749c9ff8fa1a13aff43af1d39a254d.

Gobel A, McArdell CS, Suter MJF, and Giger W. "Trace Determination of Macrolide and Sulfonamide Antimicrobials, a Human Sulfonamide Metabolite, and Trimethoprim in Wastewater Using Liquid Chromatography Coupled to Electrospray Tandem Mass Spectrometry," *Anal Chem* **2004**, *76*(16):4756-4764. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac0496603.

Gobel A, Thomsen A, McArdell CS, Alder AC, Giger W, Thei N, et al. "Extraction and determination of sulfonamides, macrolides, and trimethoprim in sewage sludge," *J Chromatogr A* **2005**, *1085*(2):179-

189. http://www.sciencedirect.com/science/article/B6TG8-4GJVB74-1/2/ef4660dc6cbfa9bd3abd4f16c58cd7d2.

Gobel A, Thomsen A, McArdell CS, Joss A, and Giger W. "Occurrence and sorption behavior of sulfonamides, macrolides, and trimethoprim in activated sludge treatment," *Environ Sci Technol* **2005**, *39*(11):3981-3989. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i11/abs/es048550a.html.

Godfrey E, Woessner WW, and Benotti MJ. "Pharmaceuticals in on-site effluent and ground water, western Montana," *Ground Wat* **2007**, *45*(3):263-271. http://leg.mt.gov/content/lepo/2007_2008/water_policy/meetings/minutes/wpic03122008_ex06.pdf.

Godfrey E, Woessner WW, and Benotti MJ. "Pharmaceuticals in On-Site Sewage Effluent and Ground Water, Western Montana," *Ground Wat* **2007**, *45*(3):263-271. http://dx.doi.org/10.1111/j.1745-6584.2006.00288.x.

Goehl TJ. "Reviews in Environmental Health Introduction," *Environ Health Perspect* **2002**, *110*(1):1-2.

Goho A. "Tricky business," *Sci News* **2004**, *166*(8):122-124. http://www.sciencenews.org/articles/20040821/bob9.asp.

Gold LS "The Carcinogenic Potency Database (CPDB)." 2008. http://potency.berkeley.edu/cpdb.html.

Golden R, Gandy J, and Vollmer G. "A review of the endocrine activity of parabens and implications for potential risks to human health," *Crit Rev Toxicol* **2005**, *35*(5):435-458.

Golder Associates. "Final Report Disposal of Unused Medicines in Subtitle D Landfills," Cherry Hill, N.J., June, 2004, pp.

Goldgewicht C. "Évaluation du risque de cancer du poumon en relation avec l'exposition aux particules aéroportées dans quatre agglomérations fr," *Environment, Risques & Sante* **2006**, *5*(4):226. http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldgewicht C. "Analyse spatiale de la pollution de l'air et mortalité à Los Angeles," *Environment, Risques & Sante* **2006**, *5*(4):227.

http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldgewicht C. "Silicose et cancer du poumon :méta-analyse," *Environment, Risques & Sante* **2006**, *5*(4):228.

http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldgewicht C. "Rapport d'un groupe de travail « Nitrate dans l'eau de boisson et santé » Résultats récents et besoins de recherche " *Environment, Risques & Sante* **2006**, *5*(4):230. http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldgewicht C. "Impact de la vague de chaleur de 2003 sur la mortalité toutes causes dans 9 villes françaises "*Environment, Risques & Sante* **2006**, *5*(4):230-231. http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html. Goldgewicht C. "Agrégats communautaires de leucémies et de lymphomes : des arguments pour une infection ?," *Environment, Risques & Sante* **2006**, *5*(4):231-232. http://www.jle.com/en/revues/sante pub/ers/sommaire.md?cle parution=1305&type=text.html.

Goldgewicht C. "Historique de vaccination et risque de leucémie de l'enfant," *Environment, Risques & Sante* **2006**, *5*(4):233.

http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldgewicht C. "Dérivés des produits de chloration dans l'eau de boisson et risque de leucémie de l'adulte au Canada "*Environment, Risques & Sante* **2006**, *5*(4):234-235. http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Goldstein BD. "NIEHS and public health practice," Environ Health Perspect 2005, SI:80-89.

Golet EM, Alder AC, and Giger W. "Environmental exposure and risk assessment of fluoroquinolone antibacterial agents in wastewater and river water of the Glatt Valley Watershed, Switzerland," *Environ Sci Technol* **2002**, *36*(17):3645-3651. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i17/abs/es0256212.html.

Golet EM, Alder AC, Hartmann A, Ternes TA, and Giger W. "Trace Determination of Fluoroquinolone Antibacterial Agents in Urban Wastewater by Solid-Phase Extraction and Liquid Chromatography with Fluorescence Detection," *Anal Chem* **2001**, *73*(15):3632-3638. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac0015265.

Golet EM, Strehler A, Alder AC, and Giger W. "Determination of Fluoroquinolone Antibacterial Agents in Sewage Sludge and Sludge-Treated Soil Using Accelerated Solvent Extraction Followed by Solid-Phase Extraction," *Anal Chem* **2002**, *74*(21):5455-5462. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac025762m.

Golet EM, Xifra I, Siegrist H, Alder AC, and Giger W. "Environmental exposure assessment of fluoroquinolone antibacterial agents from sewage to soil," *Environ Sci Technol* **2003**, *37*(15):3243-3249. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i15/abs/es0264448.html.

Gomes RL, Avcioglu E, Scrimshaw MD, and Lester JN. "Steroid-estrogen determination in sediment and sewage sludge: a critique of sample preparation and chromatographic/mass spectrometry considerations, incorporating a case study in method development," *TrAC Trends in Anal Chem* **2004**, *23*(10-11):737-744. http://www.sciencedirect.com/science/article/B6V5H-4DR03HH-8/2/402c932ea30f8274e0b2d4787347a61b.

Gomes RL, Birkett JW, Scrimshaw MD, and Lester JN. "Simultaneous determination of natural and synthetic steroid estrogens and their conjugates in aqueous matrices by liquid chromatography/mass spectrometry," *Internat J Environ Anal Chem* **2005**, *85*(1):1-14.

Gomes RL, Deacon HE, Lai KM, Birkett JW, Scrimshaw MD, and Lester JN. "An assessment of the bioaccumulation of estrone in Daphnia magna," *Environ Toxicol Chem* **2004**, *23*(1):105-108. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-613.

Gomes RL, Scrimshaw MD, and Lester JN. "Determination of endocrine disrupters in sewage treatment and receiving waters," *TrAC Trends in Anal Chem* **2003**, 22(10):697-707.

http://www.sciencedirect.com/science/article/B6V5H-4B4P26W-1J/2/3600000a8c458b481495e5c12b0dcef2.

Gomez E, Fenet H, Pillon A, Rosain D, Balaguer P, and Casellas C. "Personal care products and endocrine disruption," *Environment, Risques & Sante* **2006**, *5*(4):275-279. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/FE/resume.md?type=text.html.

Gomez E, Pillon A, Fenet H, Rosain D, Duchesne MJ, Nicolas JC, et al. "Estrogenic activity of cosmetic components in reporter cell lines: Parabens, UV screens, and musks," *J Toxicol Environ Health - Part A - Current Issues* **2005**, *68*(4):239-251.

Gomez MJ, Aguera A, Mezcua M, Hurtado J, Mocholi F, and Fernandez-Alba AR. "Simultaneous analysis of neutral and acidic pharmaceuticals as well as related compounds by gas chromatography-tandem mass spectrometry in wastewater," *Talanta* **2007**, *73*(2):314-320. http://www.sciencedirect.com/science/article/B6THP-4ND0RNK-2/2/120d4184855566e1df789ab8642acc59.

Gómez MJ, Agüera A, Mezcua M, Hurtado J, Mocholí F, and Fernández-Alba AR. "Simultaneous analysis of neutral and acidic pharamaceuticals as well as related compounds by gas chromatography-tandem mass spectrometry in wastewater," *Talanta* **2007**, *73*(2):314-320.

Gomez MJ, Martinez Bueno MJ, Lacorte S, Fernandez-Alba AR, and Aguera A. "Pilot survey monitoring pharmaceuticals and related compounds in a sewage treatment plant located on the Mediterranean coast," *Chemosphere* **2007**, *66*(6):993-1002. http://www.sciencedirect.com/science/article/B6V74-4PNJ1KP-4/2/b08959ffd9809510089d6323b34ed5d3.

Gomez MJ, Mezcua M, Martinez MJ, Fernandez-Alba AR, and Aguera A. "A new method for monitoring oestrogens, N-octylphenol, and bisphenol A in wastewater treatment plants by solid-phase extraction-gas chromatography-tandem mass spectrometry," *Internat J Environ Anal Chem* **2006**, *86*(1-2):3-13.

Gomez MJ, Octavio M, Ferrer I, Aguera A, and Fernandez-Alba AR. "Solid-phase extraction followed by liquid chromatographyt-time-of-fligh-mass spectrometry to evaluate pharmaceuticals in effluents. A pilot monitoring study," *J Environ Monit* **2007**, *9*(7):718-729.

Gomez MJ, Petrovic M, Fernandez-Alba AR, and Barcelo D. "Determination of pharmaceuticals of various therapeutic classes by solid-phase extraction and liquid chromatography-tandem mass spectrometry analysis in hospital effluent wastewaters," *J Chromatogr A* **2006**, *1114*(2):224-233. http://www.sciencedirect.com/science/article/B6TG8-4JHMHX0-2/2/fa31b0d299ec955666fe5f729011b34e.

Gómez MJ, Sirtori C, Mezcua M, Fernández-Alba AR, and Agüera A. "Photodegradation study of three dipyrone metabolites in various water systems: Identification and toxicity of their photodegradation products," *Wat Res* **2008**, *42*(10-11):2698-2706. http://www.sciencedirect.com/science/article/B6V73-4RRFN6X-5/1/81fa5fc62f7def65619ebfc706340536. Gomez-Taylor Corominas B, Garcia Mateo JV, Lahuerta Zamora L, and Martinez Calatayud J. "Determination of tannic acid by direct chemiluminescence in a FIA assembly," *Talanta* **2002**, *58*(6):1243-1251. http://www.sciencedirect.com/science/article/B6THP-470V43C-1/2/aa50463ce4d7e992d7e53174cecf418a.

Goni-Urriza M, Capdepuy M, Arpin C, Raymond N, Caumette P, and Quentin C. "Impact of an urban effluent on antibiotic resistance of riverine Enterobacteriaceae and Aeromonas spp.," *Appl Environ Microbiol* **2000**, *66*(1):125-132.

Gonzalez de la Huebra MJ, Vincent U, Bordin G, and Rodriguez A. "Determination of macrolide antibiotics in porcine and bovine urine by high-performance liquid chromatography coupled to coulometric detection," *Anal Bioanal Chem* **2005**, *382*(2):433-439.

Gonzalez de la Huebra MJ, Vincent U, and von Holst C. "Sample preparation strategy for the simultaneous determination of macrolide antibiotics in animal feedingstuffs by liquid chromatography with electrochemical detection (HPLC-ECD)," *J Pharmaceutical and Biomedical Analysis* **2007**, *43*(5):1628-1637. http://www.sciencedirect.com/science/article/B6TGX-4MKCGXN-5/2/cfd9915bf3f6bda0c38c467ba32e4ae6.

González O, Sans C, and Esplugas S. "Sulfamethoxazole abatement by photo-Fenton: Toxicity, inhibition and biodegradability assessment of intermediates," *J Haz Mat* **2007**, *146*(3):459-464. http://www.sciencedirect.com/science/article/B6TGF-4NJ20K2-K/1/239665dcb5d5cce820e55f3e23f1de93.

Gonzalez S, Muller J, Petrovic M, Barcelo D, and Knepper TP. "Biodegradation studies of selected priority acidic pesticides and diclofenac in different bioreactors," *Environ Pollut* **2006**, *144*(3):926-932. http://www.sciencedirect.com/science/article/B6VB5-4JWFMNY-3/2/8c150573dcacb55babc1ffe6c90bfd8e.

Gonzalez-Barreiro C, Lores M, Casais MC, and Cela R. "Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography-post-column photochemically induced fluorimetry," *J Chromatogr A* **2003**, *993*:29-37.

Gonzalo MP, Arribas RM, Latorre E, Baquero F, and Martinez JL. "Sewage dilution and loss of antibiotic resistance and virulence determinants in E Coli," *FEMS Microbiol Ecol* **1989**, *59*:93-96.

Gooding MP, Newton TJ, Bartsch MR, and Hornbuckle KC. "Toxicity of synthetic musks to early life stages of the freshwater mussel Lampsilis cardium," *Arch Environ Contam Toxicol* **2006**, *51*(4):549-558.

Goodyear KL, and Threlfall EJ. "Use of veterinary antimycotic products in the UK, 1998-2002," *Internat J Antimicrobial Agents* **2004**, *24*(4):311-314. http://www.sciencedirect.com/science/article/B6T7H-4D983NN-K/2/5c6d183f276af55d45b788219afb5f58.

Gopalani D, Kumar S, Jodha AS, Singh R, Khatri PK, and Gopal R. "A novel method for production of polyester films-based nuclear track microfilters," *J Membrane Sci* **2000**, *178*(1-2):93-98. http://www.sciencedirect.com/science/article/B6TGK-4118DH5-B/2/ddaed792ae371fdea4ee13db5bbc73b1. Gordon DA, Toth GP, Graham DW, Lazorchak JM, Reddy TV, Knapp CW, et al. "Effects of eutrophication on vitellogenin gene expression in male fathead minnows (Pimephales promelas) exposed to 17[alpha]-ethynylestradiol in field mesocosms," *Environ Pollut* **2006**, *142*(3):559-566. http://www.sciencedirect.com/science/article/B6VB5-4J2KY16-3/2/3ff2f1315a12b927eab16a0ceaf324a2.

Gordon L, Giraud E, Ganiere JP, Armand F, Bouju-Albert A, de la Cotte N, et al. "Antimicrobial resistance survey in a river receiving effluents from freshwater fish farms," *J Appl Microbiol* **2007**, *102*(4):1167-1176.

Goto T, and Hiromi J. "Toxicity of 17alpha-ethynylestradiol and Norethindrone, Constituents of an Oral Contraceptive Pill to the Swimming and Reproduction of Cladoceran Daphnia Magna, with Special Reference to Their Synergetic Effect," *Mar Pollut Bull* **2003**, *47*(1-6):139-142. http://openurl.ingenta.com/content?genre=article&issn=0025-326X&volume=47&issue=1&spage=139&epage=142 http://dx.doi.org/10.1016/S0025-326X(03)00052-3

Gotti R, Fiori J, Mancini F, and Cavrini V. "Analysis of neutral nitromusks in incenses by capillary electrophoresis in organic solvents and gas chromatography-mass spectrometry," *ELECTROPHORESIS* **2005**, *17*(September):3325-3332.

Gotvajn AZ, and Zagorc-Koncan J. "Hazard identification of pharmaceutical wastewaters using biodegradability studies," *Wat Sci Technol* **2003**, *47*(10):197-204.

Gotvajn AZ, Zagorc-Koncan J, and Tisler T. "Pretreatment of highly polluted pharmaceutical waste broth by wet air oxidation," *J Environ Eng-ASCE* **2007**, *133*(1):89-94. http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=JOEEDU000133000001000089 000001&idtype=cvips&gifs=yes.

Götz K, and Florian K. "Drug disposal in private households: Does the disposal of pharmaceuticals via domestic sanitary devices contribute to water contamination? [Medikamentenentsorgung in privaten Haushalten: Ein Faktor bei der Gewasserbelastung mit Arzneimittelwirkstoffen?]," *Umweltwissenschaften und Schadstoff-Forschung* **2007**, *19*(3):180-188. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=5,AN=20123071, FM=9,SEARCH=EW.BiosisAuthorLink.

Gould GG, Brooks BW, and Frazer A. "[³H] Citalopram Binding to Serotonin Transporter Sites in Minnow Brains," *Basic Clin Pharmacol Toxicol* **2007**, *101*(3):203-210. http://www.ingentaconnect.com/content/mksg/pto/2007/00000101/0000003/art00011 http://dx.doi.org/10.1111/j.1742-7843.2007.00100.x.

Gould IM, and MacKenzie FM. "Antibiotic exposure as a risk factor for emergence of resistance: the influence of concentration," *J Appl Microbiol* **2002**, *92*(1):78S-84S.

Gould JP, and Hay TR. "The nature of the reactions between chlorine and purine and pyrimidine bases: Products and kinetics," *Wat Sci Techol* **1982**, *14*:629-640.

Goyal S, M., and Adams WN. "Drug-resistant bacteria in continental shelf sediments," *Appl Environ Microbiol* **1984**, *48*(4):861-862.

Goyne KW, Chorover J, Kubicki JD, Zimmerman AR, and Brantley SL. "Sorption of the antibiotic ofloxacin to mesoporous and nonporous alumina and silica," *J Colloid and Interface Sci* **2005**, *283*(1):160-170. http://www.sciencedirect.com/science/article/B6WHR-4DXC1YP-2/2/b82322a49a7b0f44ceac6a8204d5025e.

Grabow W. "The relationship between sewers, environmental pollution and bacteria that are resistant to antimicrobial agents, (in afrikaans) "*Tydskr natuurwet* **1973**, *13*(2):96-99. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=7413158&q=drug s+sewage+pollution&uid=790088066&setcookie=yes.

Gracia T, Hilscherova K, Jones PD, Newsted JL, Higley EB, Zhang X, et al. "Modulation of steroidogenic gene expression and hormone production of H295R cells by pharmaceuticals and other environmentally active compounds," *Toxicol Appl Pharmacol* **2007**, *225*(2):142-153. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17822730.

Gracia T, Jones P, Higley E, Hilscherova K, Newsted J, Murphy M, et al. "Modulation of steroidogenesis by coastal waters and sewage effluents of Hong Kong, China, using the H295R assay," *Environ Sci Pollut Res* **2008**, *15*(4):332-343. http://dx.doi.org/10.1007/s11356-008-0011-6.

Graham DW, Larive CK, Michael L, and deNoyelles FJ. "Fate and Effects of Fluoroquinolone Antibacterial Agents in Aquatic Ecosystems," USEPA, University of Kansas, 2001-2006.

Grainger-Rousseau T-J, Fielding DW, Smith MA, Daws D, and Desrosiers D. "What's left in the medicine cabinet? The British Columbia EnviRx Project," *Pharmacotherapy* **1999**, *19*(4):527.

Granados M, Encabo M, Compano R, and Prat MD. "Determination of Tetracyclines in water samples using liquid chromatography with fluorimetric detection," *Chromatographia* **2005**, *61*(9-10):471-477.

Grange AH, Osemwengie LI, Brilis GM, and Sovocool GW. "Ion Composition Elucidation (ICE): an Investigative Tool for Characterization and Identification of Compounds of Regulatory Importance," *Environ Forensics* **2001**, *2*(1):61-74. http://www.sciencedirect.com/science/article/B6WDR-458W6JP-11/2/396fa727076010ec207c467ae81caef9.

Grange AH, Osemwengie LI, and Sovocool GW. "Identifying compounds despite chromatography limitations: Organophosphates in treated sewage," *LC GC North America* **2004**, *S*(February):96-103.

Grant GA, Frison SL, and Sprons P. "A sensitive method for detection of sulfamethazine and N4acetylsulfamethazine residues in environmental samples using solid phase immuneoextraxtion coupled with MALDI-TOF MS," *J Agric Food Chem* **2003**, *51*(18):5367-5375.

Grant P. "Return of waste medicines to a community pharmacy," Prescriber 2001, 12(4):29-38.

Graslund S, and Bengtsson BE. "Chemicals and biological products used in south-east Asian shrimp farming, and their potential impact on the environment - a review," *Sci Total Environ* **2001**, *280*(N/A):93-131. http://www.ingentaconnect.com/els/00489697/2001/00000280/00000001/art00818

Graslund S, Holmstrom K, and Wahlstrom A. "A field survey of chemicals and biological products used in shrimp farming," *Mar Pollut Bull* **2003**, *46*(1):81-90. http://www.sciencedirect.com/science/article/B6V6N-47DM6GV-9/2/cc4febe3f237880e8c294fab4acae27b.

Grass E, and Lalande F. "General Inspection of Social Affairs," Paris, FR, 2005, 75 pp. http://translate.google.com/translate?hl=en&sl=fr&u=http://www.ladocumentationfrancaise.fr/rapports

publics/054000106/index.shtml&sa=X&oi=translate&resnum=2&ct=result&prev=/search%3Fq%3DE nqu%25C3%25AAte%2Bsur%2Ble%2Bdispositif%2Bde%2Brecyclage%2Bdes%2Bm%25C3%25A9 dicaments%2B%26hl%3Den%26rls%3DGGLG,GGLG:2006-12,GGLG:en.

Gratacos-Cubarsi M, Castellari M, Valero A, Diaz I, and Garcia-Regueiro JA. "Novel approach to control sulfamethazine misuse in food-producing animals by hair analysis," *Food Additives Contaminants* **2006**, *23*(10):981-987.

Gravel A, and Vijayan MM. "Salicylate disrupts interregnal steroidogenesis and brain glucocorticoid receptor expression in steroidogenesis and brain glucocorticoid receptor expression in rainbow trout," *Toxicol Sci* **2006**, *93*(1):41-49.

Gravel A, and Vijayan MM. "Non-steroidal anti-inflammatory drugs disrupt the heat shock response in rainbow trout," *Aqua Toxicol* **2007**, *81*(2):197-206. http://www.sciencedirect.com/science/article/B6T4G-4MJJH01-1/2/2d46254337d259d5b6f23fb6643c2db0.

Graves G, "On the water front," Vogue June, 2008, 108. www.vogue.com.

Gray JL, and Sedlak DL. "The fate of estrogenic hormones in an engineered treatment wetland with dense macrophytes," *Wat Environ Res* **2005**, *77*(1):24-31.

Gray S, and Booker N. "Wastewater services for small communities," *Wat Sci Technol* **2003**, 47(7-8):65-71.

Greb H. "Arzneimittelbericht Sudhessen 1996-2000 Hydrologie in Hessen," Hessesches Landesamt fur umwelt und geologie, Wiesbaden, Germany, 2006. 58 pp.

Greco L, Capri E, and Rustad T. "Biochemical responses in Salmo salar muscle following exposure to ethynylestradiol and tributyltin," *Chemosphere* **2007**, *68*(3):564-571. http://www.sciencedirect.com/science/article/B6V74-4MX4VN6-J/2/6e895ba20db75521418c0da2be4a0244.

Green BW, and Teichert Coddington DR. "Human food safety and environmental assessment of the use of 17 alpha-methyltestosterone to produce male tilapia in the United States," *J World Aquaculture Soc* **2000**, *31*(3):337-357.

Green L, Fullilove M, Evans D, and Shepard P. ""Hey, mom, thanks!": use of focus groups in the development of place-specific materials for a community environmental action campaign," *Environ Health Perspect* **2002**, *110 Suppl* 2:265-269. http://www.ncbi.nlm.nih.gov/pubmed/11929737.

Green RE, Newton I, and Shultz S. "Diclofenac poisoning as a cause of vulture population declines across the Indian subcontinent," *J Appl Ecol* **2004**, *41*:793-800.

Greene LA. "Controversy swirls around toilet-to-tap project," *Environ Health Perspect* **2000**, *108*(10):A447. http://www.ncbi.nlm.nih.gov/pubmed/11049827.

Greenwood R, Allan I, Togola A, Schluesener M, Touraud E, Roig B, et al. "Discussion Document on Eco-pharmavigilance," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2007, 79 pp. http://www.knappe-eu.org/fichiers/47-D5.2%20Discussion%20Document%20on%20Eco-pharmavigilance.pdf.

Greskowiak J, Prommer H, Massmann G, and Nutzmann G. "Modeling Seasonal Redox Dynamics and the Corresponding Fate of the Pharmaceutical Residue Phenazone During Artificial Recharge of Groundwater," *Environ Sci Technol* **2006**, *40*(21):6615-6621. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es052506t.

Greyshock AE, and Vikesland PJ. "Triclosan Reactivity in Chloraminated Waters," *Environ Sci Technol* **2006**, *40*(8):2615-2622. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es051952d.

Griffin LD, and Mellon SH. "Selective serotonin reuptake inhibitors directly alter activity of neurosteroidogenic enzymes," *Proceed Nat Acad Sci* **1999**, *96*(23):13512-13517. http://www.pnas.org/cgi/content/abstract/96/23/13512.

Griffiths G. "The Safe Disposal of Clinical Waste," *The Journal of the Royal Society for the Promotion of Health* **1989**, *109*(4):125-127. http://rsh.sagepub.com.

Griffiths P, Vingoe L, Hunt N, Mounteney J, and Hartnoll R. "Drug information systems, early warning, and new drug trends: Can drug monitoring systems become more sensitive to emerging trends in drug consumption?," *Substance Use Misuse* **2000**, *35*(6-8):811-844.

Grigoriadou A, Schwarzbauer J, and Georgakopoulos A. "Molecular indicators for pollution source identification in marine and terrestrial water of the industrial area of Kavala city, North Greece," *Environ Pollut* **2008**, *151*(1):231-242. http://www.sciencedirect.com/science/article/B6VB5-4NNYG2X-1/1/93bc4c155afcbdb30720e9c6de904c2e.

Grim KC, Wolfe M, Hawkins W, Johnson R, and Wolf J. "Intersex in japanese medaka (oryzias latipes) used as negative controls in toxicologic bioassaya: a review of 54 cases from 41 studies," *Environ Toxicol Chem* **2007**, *26*(8):1636-1643. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F06-494R.1.

Grimes DJ, Singleton FL, and Colwell RR. "Allogenic succession of marine bacterial communities in response to pharmaceutical waste," *J Appl Bateriol* **1984**, *57*:247-261.

Grisolia CK. "A comparison between mouse and fish micronucleus test using cyclophosphamide, mitomycin C and various pesticides," *Mutation Res/Genetic Toxicol Environ Mutagenesis* **2002**, *518*(2):145-150. http://www.sciencedirect.com/science/article/B6T2D-45S9NG2-2/1/89a0fe2c2ce27d9561d6b1aef0ec05cc.

Grisolia CK, and Cordeiro CMT. "Variability in micronucleus induction with different mutagens applied to several species of fish," *Gen Molecular Biol* **2000**, *23*(1):235-239. http://www.scielo.br/scielo.php?pid=S1415-47572000000100041&script=sci_arttext.

Grist EPM, Wells NC, Whitehouse P, Brighty G, and Crane M. "Estimating the effects of 17 alphaethinylestradiol on populations of the fathead minnow Pimephales promelas: Are conventional toxicological endpoints adequate?," *Environ Sci Technol* **2003**, *37*(8):1609-1616.

Grizis C, Atta-Politou J, and Koupparis MA. "Simultaneous determination of oleuropein and tyrosol in plasma using high performance liquid chromatography with UV detection," *J Liquid Chromatogr Related Technol* **2003**, *26*:599-616.

Gromadzka K, and Nawrocki J. "Degradation of diclofenac and clofibric acid using ozone-loaded perfluorinated solvent," *Ozone-Sci Eng* **2006**, *28*(2):85-94.

Groning J, Held C, Garten C, Claunitzer U, Kaschabek SR, and Schlomann M. "Transformation of diclofenac by the indigenous microflora of river sediments and identification of a major intermediate," *Chemosphere* **2007**, *69*(4):509-516. http://www.sciencedirect.com/science/article/B6V74-4NT24R3-1/2/aec6fa387cbd07ddd18852dfd1205297.

Groppelli S, Zega G, Biggiogero M, De Bernardi F, Sotgia C, and Pennati R. "Fluconazole induces teratogenic effects in the tunicate Phallusia mammillata," *Environ Toxicol Pharmacol* **2007**, *23*(3):265-271. http://www.sciencedirect.com/science/article/B6T6D-4MC81NB-1/2/236fcecd11106387e0284b52ff46fb18.

Gros M, Petrovic M, and Barcelo D. "Development of a multi-residue analytical methodology based on liquid chromatography-tandem mass spectrometry (LC-MS/MS) for screening and trace level determination of pharmaceuticals in surface and wastewaters," *Talanta* **2006**, *70*(4):678-690. http://www.sciencedirect.com/science/article/B6THP-4KGG1JN-1/2/259489e8bbf8eecf99f425aa7610faac.

Gros M, Petrovic M, and Barcelo D. "Multi-residue analytical methods using LC-tandem MS for the determination of pharmaceuticals in environmental and wastewater samples: a review," *Anal Bioanal Chem* **2006**, *386*(4):941-952.

Gros M, Petrovic M, and Barcelo D. "Wastewater treatment plants as a pathway for aquatic contamination by pharmaceuticals in the Ebro river basin (Northeast Spain)," *Environ Toxicol Chem* **2007**, *26*(8):1553-1562.

Gros M, Pizzolato T-M, Petrovic M, de Alda MJL, and Barceló D. "Trace level determination of βblockers in waste waters by highly selective molecularly imprinted polymers extraction followed by liquid chromatography-quadrupole-linear ion trap mass spectrometry," *J Chromatogr A* **2008**, *1189*(1-2):374-384. http://www.sciencedirect.com/science/article/B6TG8-4PYP72G-3/1/706fab2e93c284daa5d6a8891c899abf.

Gros M, Pizzolato T-M, Petrovic M, Lopez de Alda MJ, and Barcelo D. "Trace level determination of beta-blockers in waste waters by highly selective molecularly imprinted polymers extraction followed

by liquid chromatography-quadrupole-linear ion trap mass spectrometry," *J Chromatogr A* 2008, *1189*(1-2):374-384. http://www.ncbi.nlm.nih.gov/pubmed/18035360.

Gross B, Montgomery-Brown J, Naumann A, and Reinhard M. "Occurrence and fate of pharmaceuticals and alkylphenol ethoxylate metabolites in an effluent-dominated river and wetland," *Environ Toxicol Chem* **2004**, *23*(9):2074-2083.

Gross-Sorokin MY, Roast SD, and Brighty GC. "Assessment of feminization of male fish in English rivers by the environment agency of England and Wales," *Environ Health Perspect* **2006**, *114*(1):147-151.

http://www.ncbi.nlm.nih.gov/pubmed/16818261?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed_Pubmed_ResultsPanel.Pubmed_RVDocSum.

Grote M, Haciosmanoglu B, Bataineh M, and Nolte J. "Separation of drug traces from water with particular membrane systems," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2004**, *39*(4):1039-1053.

Grote M, Schwake-Anduschus C, Michel R, Stevens H, Heyser W, Langenkamper G, et al. "Incorporation of veterinary antibiotics into crops from manured soil," *Landbauforschung Volkenrode* **2007**, *57*(1):25-32.

Grote M, Vockel A, Schwarze D, Mehlich A, and Freitag M. "Fate of antibiotics in food chain and environment originating from pigfattening (part 1)," *Fres Environ Bull* **2004**, *13*(11B, SI):1216-1224.

Groten JP, Feron VJ, and Suhnel J. "Toxicology of simple and complex mixtures," *Trends Pharmacol Sci* **2001**, *22*(6):316-322. http://www.sciencedirect.com/science/article/B6T1K-4373WXB-W/2/8ea78463c374f9c8dec6f365b8d0c19f.

Grumbles BH. "Testimony of Benjamin H. Grumbles Assistant Administrator for Water, Environmental Protection Agency, before the Transportation Safety, Infrastructure Security and Water Quality Subcommittee of the Environment and Public Works Committee, United States Senate " 2008. http://www.epa.gov/ocir/hearings/testimony/110_2007_2008/2008_0415_bhg.pdf.

Grung M, Heimstad ES, Moe M, Schlabach M, Svenson A, Thomas K, et al. "Human and Veterinary Pharmaceuticals, Narcotics, and Personal Care Products in the Environment: Current State of Knowledge and Monitoring Requirements," TA-2325/2007, 2007, 98 pp. http://www.sft.no/publikasjoner/2325/ta2325.pdf.

Grung M, Kallqvist T, Sakshaug S, Skurtveit S, and Thomas KV. "Environmental assessment of Norwegian priority pharmaceuticals based on the EMEA guideline," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof*:295. http://www.sciencedirect.com/science/article/B6WDM-4RCPFWR-3/2/55d42bac07c670eb5d1a91e4d2edacb3.

Gu C, and Karthikeyan KG. "Interaction of tetracycline with aluminum and iron hydrous oxides," *Environ Sci Technol* **2005**, *39*(8):2660-2667.

Gu C, and Karthikeyan KG. "Sorption of the antimicrobial ciprofloxacin to aluminum and iron hydrous oxides," *Environ Sci Technol* **2005**, *39*(23):9166-9173.

Gu C, Karthikeyan KG, Sibley SD, and Pedersen JA. "Complexation of the antibiotic tetracycline with humic acid," *Chemosphere* **2007**, *66*(8):1494-1501. http://www.sciencedirect.com/science/article/B6V74-4M8778G-2/2/96471c825cb47557ee131cde50c849e2.

Gualtero SM. "Pollution prevention measures for unwanted pharamaceuticals," Department of Earth and Environmental Engineering, Columbia University, Industrial Ecology EAEE E4001, December, 2005, 23 pp.

Guardabassi L, Dalsgaard A, Raffatellu M, and Olsen JE. "Increase in the prevalence of oxolinic acid resistant Acinetobacter spp. observed in a stream receiving the effluent from a freshwater trout farm following the treatment with oxolinic acid-medicated feed," *Aquaculture* **2000**, *188*(3-4):205-218. http://www.sciencedirect.com/science/article/B6T4D-40HV0C6-P/2/ef72c59b5484ed0adb260d0e5e40e756.

Guardabassi L, Lo Fo Wong DMA, and Dalsgaard A. "The effects of tertiary wastewater treatment on the prevalence of antimicrobial resistant bacteria," *Wat Res* **2002**, *36*(8):1955-1964. http://www.sciencedirect.com/science/article/B6V73-44B1SSB-1/2/b71784938e959828dab587bbd7b71fa2.

Guardabassi L, Petersen A, Olsen JE, and Dalsgaard A. "Antibiotic Resistance in Acinetobacter spp. Isolated from Sewers Receiving Waste Effluent from a Hospital and a Pharmaceutical Plant," *Appl Environ Microbiol* **1998**, *64*(9):3499-3502. http://aem.asm.org/cgi/content/abstract/64/9/3499.

Guarino AM. "Aquatic versus mammalian toxicology: applications of the comparative approach," *Environ Health Perspect* **1987**, *71*:17-24. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1474362.

Guarino AM, Batson DB, and Zeeman MG, Eds., "Workshop on drug disposition and metabolism in aquatic species," Gaithersburg, MD, 1986, 56 pp.

Guarino AM, and Lech JJ. "In vivo metabolism and disposition of drugs by aquatic species," *Vet Hum Toxicol* **1986**, *28*(Suppl. 1):31-37. http://www.ncbi.nlm.nih.gov/pubmed/3509651.

Guarino AM, and Lech JJ. "Metabolism, disposition, and toxicity of drugs and other xenobiotics in aquatic species," *Vet Hum Toxicol* **1986**, *28*(Suppl. 1):38-44.

Guarino AM, Plakas SM, Dickey RW, and Zeeman M. "Principles of drug absorption and recent studies of bioavailability in aquatic species," *Vet Hum Toxicol* **1988**, *30*(Suppl 1):41-44. http://www.nal.usda.gov/services/request.shtml

Guerin TF. "Co-composting of pharmaceutical wastes in soil," *Lett Appl Microbiol* **2001**, *33*:256-263. http://www.ingentaconnect.com/content/bsc/lappm/2001/00000033/00000004/art00992.

Guest CA, Johnston CT, King JJ, Alleman JE, Tishmack JK, and Norton LD. "Chemical Characterization of Synthetic Soil from Composting Coal Combustion and Pharmaceutical By-Products," *J Environ Qual* **2001**, *30*(1):246-253. http://jeq.scijournals.org/cgi/content/abstract/joenq;30/1/246. Guillette LJ, Jr. "Endocrine disrupting contaminants--beyond the dogma," *Environ Health Perspect* **2006**, *114 Suppl 1*:9-12.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16818240.

Guitart C, Frickers P, Horrillo-Caraballo J, Law RJ, and Readman JW. "Characterization of Sea Surface Chemical Contamination after Shipping Accidents," *Environ Sci Technol* **2008**, *42*(7):2275-2282. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es703125e.

Gujarathi NP, Haney BJ, and Linden JC. "Phytoremediation potential of Myriophyllum aquaticum and Pistia stratiotes to modify antibiotic growth promoters, tetracycline, and oxytetracycline, in aqueous wastewater systems," *Internat J Phytoremediation* **2005**, *7*(2):99-112.

Gujarathi NP, Haney BJ, Park HJ, Wickramasinghe SR, and Linden JC. "Hairy roots of Helianthus annuus: A model system to study phytoremediation of tetracycline and oxytetracycline," *Biotech Progress* **2005**, *21*(3):775-780.

Gujarathi NP, and Linden JC. "Oxytetracycline inactivation by putative reactive oxygen species released to nutrient medium of Helianthus annuus hairy root cultures," *Biotech Bioengineer* **2005**, *92*(4):393-402.

Gülden M, Mörchel S, and Seibert H. "Comparison of mammalian and fish cell line cytotoxicity: impact of endpoint and exposure duration," *Aquatic Toxicology* **2005**, *71*(3):229-236. http://www.sciencedirect.com/science/article/B6T4G-4F3P7K9-2/1/495e75e76a400cdd8bccabe4d9e090c8.

Gulkowska A, He Y, So MK, Yeung LWY, Leung HW, Giesy JP, et al. "The occurrence of selected antibiotics in Hong Kong coastal waters," *Mar Pollut Bull* **2007**, *54*(8):1287-1293. http://www.sciencedirect.com/science/article/B6V6N-4NWW6XC-6/2/531659f28622bd08f9d991fa343996be.

Gulkowska A, Leung HW, So MK, Taniyasu S, Yamashita N, Yeung LWY, et al. "Removal of antibiotics from wastewater by sewage treatment facilities in Hong Kong and Shenzhen, China," *Wat Res* **2008**, *42*(1-2):395-403. http://www.sciencedirect.com/science/article/B6V73-4P940JS-7/2/91e6ae1d60b6670fa36a4a0a201224f0.

Gullick RW. "Monitoring systems for early warning of source water contamination," American Water Works Service Company, Inc., Voorhees, NJ, December 31, 2001, 219 pp.

Gulmez B, Ozturk I, Alp K, and Arikan OA. "Common anaerobic treatability of pharmaceutical and yeast industry wastewater," *Wat Sci Technol* **1998**, *38*:37-44. http://www.ingentaconnect.com/content/els/02731223/1998/00000038/00000004/art00495 http://dx.doi.org/10.1016/S0273-1223(98)00495-8.

Gultekin I, and Ince NH. "Synthetic endocrine disruptors in the environment and water remediation by advanced oxidation processes," *J Environ Manage* **2007**, *85*(4):816-832. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17768001. Gunics G, Motohashi N, Amaral L, Farkas S, and Molnár J. "Interaction between antibiotics and nonconventional antibiotics on bacteria," *Internat J Antimicrob Agents* **2000**, *14*(3):239-242. http://www.sciencedirect.com/science/article/B6T7H-402K6F0-G/1/82785bcf648c00f408b7a3463094034c.

Gunnarsson B, and Wennmalm A. "Environmental risk assessment and environmental classification of drugs," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 8, 116-124. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Gunnarsson B, and Wennmalm A. "Drug Design Should Involve Consideration of Environmental Risk and Hazard " *Lett in Drug Design & Discovery* **2008**, *5*(4):232-235. http://www.ingentaconnect.com/content/ben/ldd/2008/00000005/00000004/001aj.

Gunnarsson L, Jauhiainen A, Kristiansson E, Nerman O, and Larsson DGJ. "Evolutionary Conservation of Human Drug Targets in Organisms used for Environmental Risk Assessments," *Environ Sci Technol* **2008**, *In press* http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es8005173.

Gupta SK, Gupta SK, and Hung YT. "Treatment of Pharmaceutical Wastes," in *Handbook of Industrial and Hazardous Wastes Treatment*, 2nd ed.; Wang LK, Hung Y-T, Lo HH and Yapijakis C, Eds., 2004, Chapter 3, 63-130. http://books.google.com/books?hl=en&lr=&id=b1sWFkVzuPgC&oi=fnd&pg=PA63&ots=_qyKZUw wl-&sig=73HuOowVLohu9PzXcjBs FN-9js.

Gurr CJ, and Reinhard M. "Harnessing Natural Attenuation of Pharmaceuticals and Hormones in Rivers," *Environ Sci Technol* **2006**, *40*(9):2872-2876. http://pubs.acs.org/subscribe/journals/esthag/40/i09/html/050106feature reinhard.html.

Gutendorf B, and Westendorf J. "Comparison of an array of in vitro assays for the assessment of the estrogenic potential of natural and synthetic estrogens, phytoestrogens and xenoestrogens," *Toxicology* **2001**, *166*(1-2):79-89. http://www.sciencedirect.com/science/article/B6TCN-43RYXBD-C/2/9ae8d39fcd1dc2efce132169c1c59d2a.

Gutierrez-Sanchez G, Roussos S, and Augur C. "Effect of the nitrogen source on caffeine degradation by Aspergillus tamarii," *Lett Appl Microbiol* **2004**, *38*(1):50-55. http://www.ncbi.nlm.nih.gov/pubmed/14687215.

Gutjahr-Gobell RE, Zaroogian GE, Borsay Horowitz DJ, Gleason TR, and Mills LJ. "Individual effects of estrogens on a marine fish, Cunner (Tautogolabrus adspersus), extrapolated to the population level," *Ecotoxicol Environ Safety* **2006**, *63*(2):244-252. http://www.sciencedirect.com/science/article/B6WDM-4GNCXW4-3/2/e81089075408e922196dd53295797f3f.

Gyllenhammar I, Holm L, Eklund R, and Berg C. "Reproductive toxicity in Xenopus tropicalis after Developmental Exposure to Environmental Concentrations of Ethynylestradiol," *Aqua Toxicol* 2008, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T4G-4T0FF20-1/1/86c8cdca433a96f5c45851b8505daf35.

Haap T, Triebskorn R, and Köhler H-R. "Acute effects of diclofenac and DMSO to Daphnia magna: Immobilisation and hsp70-induction," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T1X2CJ-1/1/a75f531754331d2e7cea22c3545443c1.

Habauzit D, Armengaud J, Roig B, and Chopineau J. "Determination of estrogen presence in water by SPR using estrogen receptor dimerization," *Anal Bioanal Chem* **2008**, *390*(3):873-883. http://dx.doi.org/10.1007/s00216-007-1725-x.

Habauzit D, Chopineau J, and Roig B. "SPR-based biosensors: a tool for biodetection of hormonal compounds," *Anal Bioanal Chem* **2007**, *387*(4):1215-1223. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17171560.

Haeba M, Hilscherova K, Mazurova E, and Blaha L. "Selected endocrine disrupting compounds (vinclozolin, flutamide, ketoconazole and dicofol): Effects on survival, occurrence of males, growth, molting and reproduction of Daphnia magna," *Environ Sci Pollut Research* **2008**, *15*(3):222-227. http://www.ncbi.nlm.nih.gov/pubmed/18504841.

Hagerman E. "Your sewer on drugs," *Popular Sci* **2008**, (Posted 02.21.2008) http://www.popsci.com/scitech/article/2008-02/your-sewer-drugs.

Haggard BE, DeLaune PB, Smith DR, and Moore PA. "Nutrient and beta(17)-estradiol loss in runoff water from poultry," *J Am Wat Res Assoc* 2005, *41*(2):245-256.

Haggard BE, Galloway JM, Green WR, and Meyer MT. "Pharmaceuticals and other organic chemicals in selected north-central and northwestern Arkansas streams," *J Environ Qual* **2006**, *35*:1078-1087.

Hahlbeck E, Griffiths R, and Bengtsson B-E. "The juvenile three-spined stickleback (Gasterosteus aculeatus L.) as a model organism for endocrine disruption: I. Sexual differentiation," *Aqua Toxicol* **2004**, *70*(4):287-310. http://www.sciencedirect.com/science/article/B6T4G-4DW380B-1/2/9a094d2fb0d5c6176fbf45505b220642.

Hahlbeck E, Katsiadaki I, Mayer I, Adolfsson-Erici M, James J, and Bengtsson B-E. "The juvenile three-spined stickleback (Gasterosteus aculeatus L.) as a model organism for endocrine disruption II--kidney hypertrophy, vitellogenin and spiggin induction," *Aqua Toxicol* **2004**, *70*(4):311-326. http://www.sciencedirect.com/science/article/B6T4G-4DVT8G5-1/2/11c13c6179e5f08ebd0f673adde3d4cb.

Hahn T, and Schulz R. "Indirect effects of antibiotics in the aquatic environment: A laboratory study on detritivore food selection behavior," *Human Ecolog Risk Assess* **2007**, *13*(3):535-542.

Haiß A, and Kümmerer K. "Biodegradability of the X-ray contrast compound diatrizoic acid, identification of aerobic degradation products and effects against sewage sludge micro-organisms," *Chemosphere* **2006**, *62*(2):294-302. http://www.sciencedirect.com/science/article/B6V74-4GP1V9N-1/1/dbb0e42cdc6e65794de779274c952ec6.

Hajkova K, Pulkrabova J, Hajslova J, Randak T, and Zlabek V. "Chub (Leuciscus cephalus) as a bioindicator of contamination of the Vltava River by synthetic musk fragrances," *Arch Environ Contam Toxicol* **2007**, *53*(3):390-396.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17728991.

Hajkova K, Pulkrabova J, Schurek J, Hajslova J, Poustka J, Napravnikova M, et al. "Novel approaches to the analysis of steroid estrogens in river sediments," *Anal Bioanal Chem* **2007**, *387*(4):1351-1363.

Hakk H, Millner P, and G. L. "Decrease in water soluble 17β -estradiol and testosterone in composted poultry manure with time," *J Environ Qual* **2005**, *34*(3):943-950.

Halasi S. "Waste not, want not: a guide to appropriate disposal of used, expired or unwanted drugs," *Pharm Practice* **2005**, *21*(10):34-41.

Halden RU. "Comment on accumulation of contaminants in fish from wastewater treatment wetlands," *Environ Sci Technol* **2006**, *40*(10):3437.

Halden RU, and Paull DH. "Analysis of triclocarban in aquatic samples by liquid chromatography electrospray ionization mass spectrometry," *Environ Sci Technol* **2004**, *38*(18):4849-4855.

Halden RU, and Paull DH. "Co-occurrence of triclocarban and triclosan in U.S. water resources," *Environ Sci Technol* **2005**, *39*(6):1420-1426. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i06/abs/es049071e.html.

Halden RU, and Paull DH. "Response to comment on "co-occurrence of triclocarban and triclosan in US water resources"," *Environ Sci Technol* **2005**, *39*(16):6335-6336.

Halden RU, and Paull DH. "Response to Comment On "Co-Occurrence of Triclocarban and Triclosan in U.S. Water Resources"," *Environ Sci Technol* **2005**, *39*(16):6335-6336. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2005/39/i16/html/es058014y.html.

Halford B. "Side Effects: Pharmaceuticals have been finding their way into our environment for a long time, but just what are they doing there?," *Chem Eng News* **2008**, *http://pubs.acs.org/cen/coverstory/86/8608cover.html*(8):13-17. http://pubs.acs.org/cen/coverstory/86/8608cover.html.

Halford B. "Don't Flush: What To Do With Your Unused Pharmaceuticals," *Chem Eng News* **2008**, *86*(8):16. http://pubs.acs.org/cen/coverstory/86/8608coverbox.html.

Hall B, Tozer S, Safford B, Coroama M, Steiling W, Leneveu-Duchemin MC, et al. "European consumer exposure to cosmetic products, a framework for conducting population exposure assessments," *Food Chem Toxicol* **2007**, *45*(11):2097-2108. http://www.sciencedirect.com/science/article/B6T6P-4P06CMF-1/2/c8c7bd893bda20306ab8ecf85b42c19a.

Hallare AV, Kohler HR, and Triebskorn R. "Developmental toxicity and stress protein responses in zebrafish embryos after exposure to diclofenac and its solvent, DMSO," *Chemosphere* **2004**,

56(7):659-666. http://www.sciencedirect.com/science/article/B6V74-4CJCT8N-5/2/f77d5bff9a6a91ff4d1552854daa2410.

Halldin K, Berg C, Brandt I, and Brunstrom B. "Sexual behavior in Japanese quail as a test end point for endocrine disruption: Effects of in Ovo exposure to ethinylestradiol and diethylstilbestrol," *Environ Health Perspect* **1999**, *107*(11):861-866. http://www.ehponline.org/docs/1999/107p861-866halldin/abstract.html.

Haller MY, Muller SR, McArdell CS, Alder AC, and Suter MJF. "Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography-mass spectrometry," *J Chromatogr A* **2002**, *952*(1-2):111-120. http://www.sciencedirect.com/science/article/B6TG8-456282J-3/2/29adb7777638be1e3ae957ea3a1a072e.

Halling-Sørensen B. "Complete list of publications," http://www.dfh.dk/insta/personale/bhs/publications.html.

Halling-Sørensen B. "Algal toxicity of antibacterial agents used in intensive farming," *Chemosphere* **2000**, *40*(7):731-739. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-33/2/78efcec9262477d6d3fa9b8065cdea34.

Halling-Sørensen B. "Inhibition of aerobic growth and nitrification of bacteria in sewage sludge by antibacterial agents," *Arch Environ Contam Toxicol* **2001**, *40*:451-460.

Halling-Sørensen B, Jacobsen A-M, Jensen J, Sengeløv G, Vaclavik E, and Ingerslkev F. "Dissipation and effects of chlortetracycline and tylosin in two agricultural soils: a field-scale study in southern Denmark," *Environ Toxicol Chem* **2005**, *24*(4):802-810.

Halling-Sørensen B, Jensen J, Tjørnelund J, and Montfors MHMM. "Worst-case estimations of predicted environmental soil concentrations (PEC) of selected veterinary antibiotics and residues in Danish Agriculture," in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 13, 143-156.

Halling-Sørensen B, Lutzhoft HCH, Andersen HR, and Ingerslev F. "Environmental risk assessment of antibiotics: comparison of mecillinam, trimethoprim and ciprofloxacin," *J Antimicrob Chemo* **2000**, *46*(1):53-58.

Halling-Sorensen B, Lykkeberg A, Ingerslev F, Blackwell P, and Tjornelund J. "Characterisation of the abiotic degradation pathways of oxytetracyclines in soil interstitial water using LC-MS-MS," *Chemosphere* **2003**, *50*(10):1331-1342. http://www.sciencedirect.com/science/article/B6V74-47T89DW-5/2/12b90f0b6f991982399db9166a02e7e2.

Halling-Sorensen B, Nors Nielsen S, Lanzky PF, Ingerslev F, Holten Lutzhoft HC, and Jorgensen SE. "Occurrence, fate and effects of pharmaceutical substances in the environment- A review," *Chemosphere* **1998**, *36*(2):357-393. http://www.sciencedirect.com/science/article/B6V74-3SX5HP3-12/2/ce79e556a5b5601cb4529433ea6ae65a.

Halling-Sørensen B, Sengeløv G, Ingerslev F, and Bogø Jensen L. "Reduction of antimicrobial potencies of oxytetracycline, tylosin, sulfadiazine, streptomycin, ciprofloxacin and olaquindox due to environmental processes," *Arch Environ Contam Toxicol* **2003**, *44*(1):7-16.

Halling-Sørensen B, Sengeløv G, Ingerslev F, and Jensen LB. "Reduced antimicrobial potencies of oxytetracycline, tylosin, sulfadiazine, streptomycin, ciprofloxacin and olaquindox due to environmental processes.," *Arch Environ Contam Toxicol* **2003**, *44*(1):7-16.

Halling-Sørensen B, Sengeløv G, and Tjørnelund J. "Toxicity of tetracyclines and tetracycline degradation products to environmentally relevant bacteria, including selected tetracycline-resistant bacteria," *Arch Environ Contam Toxicol* **2002**, *42*(3):263-271. http://cat.inist.fr/?aModele=afficheN&cpsidt=13650359.

Halm S, Pounds N, Maddix S, Rand-Weaver M, Sumpter JP, Hutchinson TH, et al. "Exposure to exogenous 17 β -oestradiol disrupts P450aromB mRNA expression in the brain and gonad of adult fathead minnows (Pimephales promelas)," *Aqua Toxicol* **2002**, *60*(3-4):285-299. http://www.sciencedirect.com/science/article/B6T4G-458NB70-2/1/6776fdcb2237dd6e381e8828ec6ef350.

Hammond E, Humphrey A, Nwankpa C, and LaiHing K. "Pharmaceuticals and personal care products in residential and industrial effluent wastewater," *Abstracts of Papers of the Am Chem Soc* **2005**, *229*(1 March 13):U508-U508.

Hamscher G, Pawelzick HT, Hoper H, and Nau H. "Antibiotics in soil: Routes of entry, environmental concentrations, fate and possible effects," in *Pharmaceuticals in the environment: Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 11, 139-148.

Hamscher G, Pawelzick HT, Höper H, and Nau H. "Different behavior of tetracyclines and sulfonamides in sandy soils after repeated fertilization with liquid manure," *Environ Toxicol Chem* **2005**, *24*(4):861-868.

Hamscher G, Pawelzick HT, Sczesny S, Nau H, and Hartung J. "Antibiotics in dust originating from a pig-fattening farm: A new source of health hazard for farmers?," *Environ Health Perspect* **2003**, *111*(13):1590-1594. http://www.ehponline.org/members/2003/6288/6288.html.

Hamscher G, Priess B, and Nau H. "A survey of the occurrence of various sulfonamides and tetracyclines in water and sediment samples originating from aquaculture systems in Northern Germany in summer 2005," *Arch fur lebensmittelhygiene* **2006**, *57*(4):97-101.

Hamscher G, Sczesny S, AbuQare A, Hoper H, and Nau H. "Substances with pharmacological effects including hormonally active substances in the environment: Identification of tetracyclines in soil fertilized with animal slurry," *Deutsche Tierarztliche Wochenschrift* **2000**, *107*(8):332-334.

Hamscher G, Sczesny S, Hoper H, and Nau H. "Determination of persistent tetracycline residues in soil fertilized with liquid manure by high-performance liquid chromatography with electrospray ionization tandem mass spectrometry," *Anal Chem* **2002**, *74*(7):1509-1518.

Han GH, Hur HG, and Kim SD. "Ecotoxicological risk of pharmaceuticals from wastewater treatment plants in Korea: Occurrence and toxicity to Daphnia magna," *Environ Toxicol Chem* **2006**, *25*(1):265-271.

Hanisch C. "Is extended producer responsibility effective?," *Environ Sci Technol* **2000**, *34*(7):170A-175A.

Hankemeier T, Steketee PC, Vreuls JJ, and Brinkman UAT. "Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation," *J Chromatogr A* **1996**, 750(1-2):161-174. http://www.sciencedirect.com/science/article/B6TG8-3S95N46-N/2/9dbe9582c669b9b490c4c45fc6ddebf0.

Hankemeier T, Steketee PC, Vreuls JJ, and Brinkman UAT. "At-line SPE-GC-MS of micropollutants in water using the PrepStation," *Fres J Anal Chem* **1999**, *364*:106-112.

Hano T, Oshima Y, Kinoshita M, Tanaka M, Mishima N, Ohyama T, et al. "Quantitative bioimaging analysis of gonads in olvas-GFP/ST-II YI medaka (transgenic Oryzias latipes) exposed to ethinylestradiol," *Environ Sci Technol* **2007**, *41*(4):1473-1479.

Hanselman TA, Graetz DA, and Wilkie AC. "Fate of poultry manure estrogens in soils: A review," *Soil Crop Sci Soc Florida Proceedings* **2003**, *62*:8-12.

Hanselman TA, Graetz DA, and Wilkie AC. "Manure-borne estrogens as potential environmental contaminants: A review," *Environ Sci Technol* **2003**, *37*(24):5471-5478.

Hanselman TA, Graetz DA, and Wilkie AC. "Comparison of Three Enzyme Immunoassays for Measuring 17{beta}-Estradiol in Flushed Dairy Manure Wastewater," *J Environ Qual* **2004**, *33*(5):1919-1923. http://jeq.scijournals.org/cgi/content/abstract/joenq;33/5/1919.

Hanselman TA, Graetz DA, Wilkie AC, Szabo NJ, and Diaz CS. "Determination of steroidal estrogens in flushed dairy manure wastewater by gas chromatography-mass spectrometry," *J Environ Qual* **2006**, *35*(3):697-700.

Hansen LB, Saseen JJ, Westfall JM, Holcomb S, Nuzum DS, and Pace WD. "Evaluating sample medications in primary care: a practice-based research network study," *Jt Comm J Qual Patient Saf* **2006**, *32*(12):688-692.

http://www.ncbi.nlm.nih.gov/pubmed/17220158?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed .Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_Discovery_RA&linkpos=1&log\$=relatedart icles&logdbfrom=pubmed.

Hansen PK, Lunestad BT, and Samuelsen OB. "Effects of Oxytetracycline, Oxolinic Acid, and Flumequine on Bacteria in an Artificial Marine Fish Farm Sediment " *Can J Microbiol* **1992**, *38*(12):1307-1312.

http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=9304336&q=auth or%3A%22Hansen%22+intitle%3A%22Effects+of+Oxytetracycline%2C+Oxolinic+Acid%2C+and+.. .%22+&uid=792698393&setcookie=yes.

Hanson ML, Knapp CW, and Graham DW. "Field assessment of oxytetracycline exposure to the freshwater macrophytes Egeria densa Planch. and Ceratophyllum demersum L," *Environ Pollut* **2006**,

141(3):434-442. http://www.sciencedirect.com/science/article/B6VB5-4HDGBPH-1/2/3f215eeb0b59e93fc088a86d59107866.

Hao C, Zhao X, Tabe S, and Yang P. "Optimization of a Multiresidual Method for the Determination of Waterborne Emerging Organic Pollutants Using Solid-Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry and Isotope Dilution Mass Spectrometry," *Environ Sci Technol* **2008**, *42*(11):4068-4075.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es7028125.

Hao C, Zhao X, and Yang P. "GC-MS and HPLC-MS analysis of bioactive pharmaceuticals and personal-care products in environmental matrices," *TrAC Trends in Anal Chem* **2007**, *26*(6):569-580. http://www.sciencedirect.com/science/article/B6V5H-4N68ND2-1/2/ac23e5e2e5715ed65dfbd34a08ec3355.

Hao CY, Clement R, and Yang P. "Liquid chromatography-tandem mass spectrometry of bioactive pharmaceutical compounds in the aquatic environment - a decade's activities," *Anal Bioanal Chem* **2007**, *387*(4):1247-1257. http://www.springerlink.com/content/n5463v0296k55748/.

Hao CY, Lissemore L, Nguyen B, Kleywegt S, Yang P, and Solomon K. "Determination of pharmaceuticals in environmental waters by liquid chromatography/electrospray ionization/tandem mass spectrometry "*Anal Bioanal Chem* **2006**, *384*(2):505-513.

Haque MM, and Muneer M. "Photodegradation of norfloxacin in aqueous suspensions of titanium dioxide," *J Hazard Mat* **2007**, *145*(1-2):51-57. http://www.sciencedirect.com/science/article/B6TGF-4M91NYD-2/1/32194915706294019afc6a140d33d29f.

Hardege JD, Duncan J, and Ram JL. "Tricyclic Antidepressants Suppress Spawning and Fertilization in the Zebra Mussel, Dreissena polymorpha," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **1997**, *118*(1):59-64. http://www.sciencedirect.com/science/article/B6T2S-3R7B366-9/2/78c81285d7ad8950fef25fa627e78bdd.

Harden J, Donaldson FP, and Nyman MC. "Concentrations and distribution of 3,3'-dichlorobenzidine and its congeners in environmental samples from Lake Macatawa," *Chemosphere* **2005**, *58*(6):767-777. http://www.sciencedirect.com/science/article/B6V74-4DTTB2P-F/1/f4b6543af69029c4c7eed50ad0226245.

Harder A, Escher BI, Landini P, Tobler NB, and Schwarzenbach RP. "Evaluation of Bioanalytical Assays for Toxicity Assessment and Mode of Toxic Action Classification of Reactive Chemicals," *Environ Sci Technol* **2003**, *37*(21):4962-4970. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es034197h.

Harder B. "Germs that do a body good: Bacteria might someday keep the doctor away," *Sci News* **2002**, *161*:72-74.

Harder B. "Double-edged drugs," *Sci News* **2004**, *165*(15):230. http://63.240.200.111/articles/20040410/fob7ref.asp.

Harder B. "A whiff of danger: fragrances hinder cells' removal of other chemicals," *Sci News* **2005**, *167*(12):187.

Harding AK, Daston GP, Boyd GR, Lucier GW, Safe SH, Stewart J, et al. "Endocrine disrupting chemicals research program of the U.S. Environmental Protection Agency: summary of a peer-review report," *Environ Health Perspect* **2006**, *114*(8):1276-1282.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16882539.

Hari AC, Paruchuri RA, Sabatini DA, and Kibbey TCG. "Effects of pH and Cationic and Nonionic Surfactants on the Adsorption of Pharmaceuticals to a Natural Aquifer Material," *Environ Sci Technol* **2005**, *39*(8):2592-2598. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048992m.

Harries JE, Sheahan DA, Jobling S, Matthiessen P, Neall P, Routledge EJ, et al. "A survey of estrogenic activity in United Kingdom inland waters," *Environ Toxicol Chem* **1996**, *15*(11):1993-2002.

Harries JE, Sheahan DA, Jobling S, Matthiessen P, Neall P, Sumpter JP, et al. "Estrogenic activity in five United Kingdom rivers detected by measurement of vitellogenesis in caged male trout," *Environ Toxicol Chem* **1997**, *16*(3):534-542.

Harrington RV. "Pharmaceuticals in disasters," in *Disaster Medicine*, 2nd ed.; Hogan DE and Burstein JL, Eds., Lippincott Williams & Wilkins, 2006, 6, 56-63. http://books.google.com/books?hl=en&lr=&id=hgLccSb8DIUC&oi=fnd&pg=PA56&dq=destruction+disposal+pharmaceutical&ots=lI_rdF1h2k&sig=wVW3_m_Jtw4xwtqKMswc2o-0v1Q#PPA1,M1.

Harris DW, Karandikar DS, Spencer MG, Leach RH, Bower AC, and Mander GA. "Returnedmedicines campaign in Birmingham," *Lancet* **1979**, *313*(8116):599-601. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T1B-49MF0MP-2YT&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versio n=1&_urlVersion=0&_userid=14684&md5=2767065790cadb9698293ef689cded87.

Harrison EZ, Oakes SR, Hysell M, and Hay A. "Organic chemicals in sewage sludges," *Sci Total Environ* **2006**, *367*(2-3):481-497. http://www.sciencedirect.com/science/article/B6V78-4K42BJ2-1/2/fc399fc55a9977da41fd54ba406da678.

Hartemann P. "An approach to evaluating the emerging effects of drug residues in water," *Environment, Risques & Sante* **2006**, *5*(4):307-310. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/04/resume.md?type=text.html.

Hartig C, and Jekel M. "Analytik aromatischer sulfonamide in biologischen und aquatischen matrizes," *Vom Wasser* **2001**, *96*:131-158.

Hartig C, Storm T, and Jekel M. "Detection and identification of sulphonamide drugs in municipal waste water by liquid chromatography coupled with electrospray ionisation tandem mass spectrometry," *J Chromatogr A* **1999**, *854*(1-2):163-173. http://www.sciencedirect.com/science/article/B6TG8-3X7M8W6-J/1/d0f08b5828afcafe9ec6235eeadf20fc.

Hartley TW. "Water Reuse: Understanding Public Perception and Participation," Water Environment Research Foundation (WERF), 2003, 172 pp.

Hartmann A. "Determination of the fluoroquinolone antibiotic ciprofloxacin in hospital and municipal water," Soc Environ Toxicol Chem, San Francisco.

Hartmann A, Alder AC, Koller T, and Widmer RM. "Identification of fluoroquinolone antibiotics as the main source of umuC genotoxicity in native hospital wastewater," *Environ Toxicol Chem* **1998**, *17*(3):377-382. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(1998)017%3C0377%3AIOFAAT%3E2.3.CO%3B2.

Hartmann A, Golet EM, Gartiser S, Alder AC, Koller T, and Widmer RM. "Primary DNA damage but not mutagenicity correlates with ciprofloxacin concentrations in German hospital wastewaters," *Arch Environ Contam Toxicol* **1999**, *36*(2):115-119.

Hartmann J, Bartels P, Mau U, Witter M, Tümpling Wv, Hofmann J, et al. "Degradation of the drug diclofenac in water by sonolysis in presence of catalysts," *Chemosphere* **2008**, *70*(3):453-461. http://www.sciencedirect.com/science/article/B6V74-4PCR1JB-2/1/8928854b3a62f7af4c0b97e639503c70.

Hartmann S, Lacorn M, and Steinhart H. "Natural occurrence of steroid hormones in food," *Food Chemistry* **1998**, 62:7-20.

http://www.ingentaconnect.com/content/els/03088146/1998/00000062/0000001/art00150 http://dx.doi.org/10.1016/S0308-8146(97)00150-7.

Harvey PW. "Parabens, oestrogenicity, underarm cosmetics and breast cancer: a perspective on a hypothesis," *J Appl Toxicol* **2003**, *23*(5):285-288.

Harvey PW, and Everett DJ. "Significance of the detection of esters of p-hydroxybenzoic acid (parabens) in human breast tumours," *J Appl Toxicol* **2004**, *24*:1-4.

Harvey PW, and Everett DJ. "Regulation of endocrine-disrupting chemicals: Critical overview and deficiencies in toxicology and risk assessment for human health," *Best Practice Res Clinical Endocrinol Metabolism* **2006**, *20*(1):145-165.

Hashimoto S, Ueda Y, Kurihara R, and Shiraishi F. "Comparison of the estrogenic activities of seawater extracts from Suruga Bay, Japan, based on chemical analysis or bioassay," *Environ Toxicol Chem* **2007**, *26*(2):279-286.

Hashimoto T, Onda K, Nakamura Y, Tada K, Miya A, and Murakami T. "Comparison of natural estrogen removal efficiency in the conventional activated sludge process and the oxidation ditch process," *Water Research* **2007**, *41*(10):2117-2126. http://www.sciencedirect.com/science/article/B6V73-4NFR5D2-1/1/ad7eed86c3057b9d05d1ebc9a6c2e0a5.

Hashimoto T, Takahashi K, and Murakami T. "Characteristics of estrogen decomposition by ozonation," *Wat Sci Technol* **2006**, *54*(10):87-93.

Haskell SRR, Ormond CJ, Occhipinti LP, and Powers EL. "Waste management: expired drugs," *J Am Vet Med Assoc* **2003**, *223*(1):51-52. http://avmajournals.avma.org/doi/abs/10.2460/javma.2003.223.51.

Hasmall SC, and Roberts RA. "The Perturbation of Apoptosis and Mitosis by Drugs and Xenobiotics," *Pharm Therapeutics* **1999**, 82(1):63-70. http://www.sciencedirect.com/science/article/B6TBG-3W3N8FH-2/1/60050b96c38011823d7af8aa0676e05a.

Hasselberg L, Westerberg S, Wassmur B, and Celander MC. "Ketoconazole, an antifungal imidazole, increases the sensitivity of rainbow trout to 17α-ethynylestradiol exposure," *Aqua Toxicol* **2008**, *86*(2):256-264. http://www.sciencedirect.com/science/article/B6T4G-4R4665K-1/2/e9cb526f657812c5e99d1a66892025f4.

Hassett JP. "Chemistry - Dissolved natural organic matter as a microreactor," *Science* **2006**, *311*(5768):1723-1724.

Hathcock JN, Talbott SM, and Zeisel SH. "Dietary Supplements: What Is in the Public's Best Interest?," *Science* **1999**, 286(5448):2269c-. http://www.ncbi.nlm.nih.gov/pubmed/10636786.

Haubruge E, Petit F, and Gage MJ. "Reduced sperm counts in guppies (Poecilia reticulata) following exposure to low levels of tributyltin and bisphenol A," *Proc Biol Sci* **2000**, *267*(1459):2333-2337. http://www.ncbi.nlm.nih.gov/pubmed/11413652.

Hauser JM, Chen L, and Paice J. "Down the Drain: The Cost of Medications Wasted in Hospice," *J Pain Symptom Management* **2006**, *31*(5):379-380. http://www.sciencedirect.com/science/article/B6T8R-4K0N5GH-2/1/910b5167c89040bd208a5ef4654791f0.

Hauser R, and Calafat AM. "Phthalates and human health," *Occupational Environ Med* **2005**, 62:806-818.

Hauser R, Duty S, Godfrey-Bailey L, and Calafat AM. "Medications as a source of human exposure to phthalates," *Environ Health Perspect* **2004**, *112*(6):751-753.

Hauser R, Meeker JD, Singh NP, Silva MJ, Ryan L, Duty S, et al. "DNA damage in human sperm is related to urinary levels of phthalate monoester and oxidative metabolites," *Human Reproduction* **2007**, *22*(3):688-695.

Hauss DJ. "Lipid-based systems for oral drug delivery: Enhancing the bioavailability of poorly water soluble drugs," *Am Pharm Rev* **2002**, *5*(4):22-28.

Havlikova L, Novakova L, Matysova L, Sicha J, and Solich P. "Determination of estradiol and its degradation products by liquid chromatography," *J Chromatogr A* **2006**, *1119*(1-2):216-223. http://www.sciencedirect.com/science/article/B6TG8-4J73017-4/2/a3f128c6107836460a3cfd67c2629c0b.

Hawkins DR, Elsom LF, Kirkpatrick D, Ford RA, and Api AM. "Dermal absorption and disposition of musk ambrette, musk ketone and musk xylene in human subjects," *Toxicol Lett* **2002**, *131*(3):147-151. http://www.sciencedirect.com/science/article/B6TCR-44W9NKF-C/2/b68cae92671ac00120b65a051ff1ebc5.

Hawkins DR, and Ford RA. "Dermal absorption and disposition of musk ambrette, musk ketone and musk xylene in rats," *Toxicol Lett* **1999**, *111*(1):95-103. http://www.ingentaconnect.com/content/els/03784274/1999/00000111/00000001/art00171 http://dx.doi.org/10.1016/S0378-4274(99)00171-X.

Hawksworth G, Wright D, and Chrystyn H. "A detailed analysis of the day to day unwanted medicinal products returned to community pharmacies for disposal," *J Soc Admin Pharm* **1996**, *3*(4):215-222.

Hay AG, Dees PM, and Sayler GS. "Growth of a bacterial consortium on triclosan," *FEM Microbiol Ecol* **2001**, *36*(2-3):105-112. http://www.sciencedirect.com/science/article/B6T2V-43F78DM-3/2/1470751dd64203d002e821f263949576.

Hayes JM, Eichman J, Katz T, and Gilewicz R. "Stability of florfenicol in drinking water," *JAOAC Internat* **2003**, *86*(1):22-29.

Hayes PL, Gibbs-Davis JM, Musorrafiti MJ, Mifflin AL, Scheidt KA, and Geiger FM. "Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline," *J Phys Chem C* **2007**, *111*(25):8796-8804. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jp0672149.

Hayes S, Newland L, Morgan K, and Dean K. "Septic-tank and agricultural nonpoint source pollution within a rural watershed," *Toxicol Environ Chem* **1990**, *26*(1-4):137-155.

Hazra A. "Wastage of drugs by consumers - an unacceptable behavior," *Rational Drug Bull* **2001**, *11*(4):Editorial, 1-8. www.cdmubengal.org/bulletin/RDB-Vol11-No4.pdf

HCWH Europe. "Preventing damage to the environment from pharmaceuticals: a primer," 2007, 6 pp. http://www.noharm.org/details.cfm?type=document&id=1860.

He BL, and Shi Y. "Comprehensive Chiral HPLC Method Development for Pharmaceutical Compounds During Late Stage Development," *Am Pharm Rev* **2008**, *11*(1):47-52.

He QH, Wang ZX, Cao XX, Chen HW, and Ke YF. "Determination of menadione sodium bisulfite in pharmaceutical preparations by flow-injection on-line photochemical spectrofluorometry "*Anal Sciences* **2001**, *17*:1209-1212.

Health Canada "It's Your Health – Proper Use and Disposal of Medication," http://www.hc-sc.gc.ca/iyh-vsv/med/disposal-defaire_e.html.

Health Canada, and Environment Canada. "Draft screening assessment for cyclotetrasiloxane, octamethyl (D4) CAS # 556-67-2," Govenment of Canada, 2008.

Health Canada, and Environment Canada. "Draft screening assessment for decamethylcyclopentasiloxane (D5) CAS # 541-02-6," Govenment of Canada, 2008.

Health Canada, and Environment Canada. "Draft screening assessment for dodecamethylcyclohexasiloxane (D6) CAS # 540-97-6," Govenment of Canada, 2008.

Health Canada, and Environment Canada. "Risk management scope for cyclotetrasiloxane, octamethyl- (D4) cyclopentasiloxane, decamethyl- (D5)cyclohexasiloxane, dodecamethyl (D6)," Govenment of Canada, 2008.

Heath E, Kosjek T, and Kompare B. "Raziskave prisotnosti ostankov zdravilnih učinkovin v odpadnih in površinskih vodah," IJS DP-9458 L1-6552-0106, Ljubljana, October, 2006, pp. http://www.norman-network.com/public/library/docs/ijs_dp_94588pharmaceutical_residues.pdf.

Heath RJ, and Rock CO. "A triclosan-resistant bacterial enzyme," Nature 2000, 406:145-146.

Heberer T. "Complete list of publications," http://www.tuberlin.de/~lmc/forschung/heberer/publik.htm.

Heberer T. "Analysis of phenoxycarboxylic acids and other acidic compounds in tap, ground, surface and sewage water at the low Ng/L-level," *Internat J Environ Anal Chem* **1995**, *58*:43-53. http://cat.inist.fr/?aModele=afficheN&cpsidt=3534482.

Heberer T. "Occurrence, fate, and assessment of polycyclic musk residues in the aquatic environment of urban areas – a review," *Acta Hydrochim Hydrobiol* **2000**, *30*(5-6):227-243.

Heberer T. "Occurrence, fate, and removal of pharmaceutical residues in the aquatic environment: a review of recent research data," *Toxicol Lett* **2002**, *131*:5-17. http://www.ingentaconnect.com/content/els/03784274/2002/00000131/00000001/art00041?token=003 a10167e41225f406a432c3a415d7d66465f456e576b64276a904a1a#avail.

Heberer T. "Tracking persistent pharmaceutical residues from municipal sewage to drinking water," *J Hydrol* **2002**, *266*(3):175-189.

http://www.ingentaconnect.com/content/els/00221694/2002/00000266/00000003/art00165.

Heberer T. "Removal of pharmaceuticals in wastewater and drinking water treatments – Removal of pharmaceuticals during drinking water production," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science Amsterdam, The Netherlands, 2007, Chapter 4.3, 475-514.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Heberer T, Dunnbier U, Reilich CH, and Stan HJ. "Detection of drugs and drug metabolites in ground water samples of a drinking water treatment plant," *Fres Environ Bull* **1997**, *6*:438-443.

Heberer T, and Feldmann D. "Contribution of effluents from hospitals and private households to the total loads of diclofenac and carbamazepine in municipal sewage effluents - modeling versus measurements," *J Hazardous Mat* **2005**, *122*(3):211-218. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGF-4G05MJ1-1&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1& urlVersion=0& userid=14684&md5=e723a7131c7137446e2f089ef6a53a3a.

Heberer T, and Feldmann D. "Corrigendum to "Contribution of effluents from hospitals and private households to the total loads of diclofenac and carbamazepine in municipal sewage effluents--Modeling versus measurements" [J. Hazard. Mater. 122 (2005) 211]," *J Haz Mat* 2005, *127*(1-3):249249. http://www.sciencedirect.com/science/article/B6TGF-4H99JHV-4/1/4428fdd48d469bbaf65c8e806a91a9b.

Heberer T, Feldmann D, Adam M, and Reddersen K. "Investigation of Pharmaceutical Residues in Hospital Effluents, in Ground- and Drinking Water from Bundeswehr Facilities, and their Removal During Drinking Water Purification," Department of Defense (DODXA), 1999.

Heberer T, Feldmann D, Reddersen K, Altmann HJ, and Zimmermann T. "Production of drinking water from highly contaminated surface waters: Removal of organic, inorganic and microbial contaminants applying mobile membrane filtration units," *Acta Hydrochim Hydrobiol* **2002**, *30*(1):24-33.

Heberer T, Fuhrmann B, Schmidt-Baumler K, Tsipi D, Koutsouba V, and Hiskia A. "Occurrence of pharmaceutical residues in sewage, river, ground, and drinking water in Greece and Berlin (Germany)," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 4, 70-83.

Heberer T, Gramer S, and Stan H-J. "Occurrence and distribution of organic contaminants in the aquatic system in Berlin. Part III. Determination of synthetic musks in Berlin surface water applying solid-phase microextraction (SPME) and gas chromatography-mass spectrometry (GC/MS)," *Acta Hydrochim Hydrobiol* **1999**, *27*(3):150-156.

Heberer T, Massmann G, Fanck B, Taute T, and Dünnbier U. "Behaviour and redox sensitivity of antimicrobial residues during bank filtration," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T9BXFN-1/2/3fa9c9b1a117f59685084a090ec84f2c.

Heberer T, Mechlinski A, and Fanck B. "Fate of Pharmaceutical Residues during Ground Water Recharge: Final Results from the Nasri Project (2002-2005)," <u>6th International Conference on</u> <u>Pharmaceuticals and Enocrine Disrupting Chemicals in Water</u>, Costa Mesa, CA, October 23, 2007, 1 page. http://ngwa.confex.com/ngwa/pharm6/techprogram/P4485.HTM.

Heberer T, Mechlinski A, Fanck B, Knappe A, Massmann G, Pekdeger A, et al. "Field studies on the fate and transport of pharmaceutical residues in bank filtration," *Ground Wat Monit Remediation* **2004**, *24*(2):70-77.

Heberer T, Reddersen K, and Mechlinski A. "From municipal sewage to drinking water: fate and removal of pharmaceutical residues in the aquatic environment in urban areas," *Wat Sci Technol* **2002**, *46*:81-88.

Heberer T, Schmidt-Baumler K, and Stan HJ. "Occurrence and distribution of organic contaminants in the aquatic system in Berlin. Part 1: Drug residues and other polar contaminants in Berlin surface and groundwater," *Acta Hydrochim Hydrobiol* **1998**, *26*(5):272-278.

Heberer T, Schmidt-Baumler K, and Stan HJ. "Occurence and distribution of organic contaminants in the aquatic system in Berlin. Part I: Drug residues and other polar contaminants in Berlin surface and groundwater," *Acta Hydrochim Hydrobiol* **1998**, *26*:272-278.

Heberer T, and Stan HJ. "[Occurence of polar organic contaminants in Berlin drinking water] Vorkommen von polaren organischen kontaminanten im Berliner trinkwasser," *Vom Wasser* **1996**, 86:19-31.

Heberer T, and Stan HJ. "Determination of clofibric acid and N-(phenylsulfonyl)-sarcosine in sewage, river and drinking water International," *J Environ Anal Chem* **1997**, 67:113-123.

Heberer T, and Stan HJ. "Determination of clofibric acid and N-(phenylsufonyl)-sarcosine in sewage, riveer and drinking water," *Internat J Environ Anal Chem* **1997**, *67*(113-124).

Heberer T, and Ternes T. "Residues of Pharmaceuticals from Human Use," in *Organic Pollutants in the Water Cycle*, Reemtsma T and Jekel M, Eds., 2006, Chapter 2, 28 Aug. http://www3.interscience.wiley.com/cgi-bin/summary/112770853/SUMMARY.

Heberer T, These A, and Grosch UA. "Occurrence and fate of synthetic musks in the aquatic system of urban area - polycyclic and nitro musks as environmental pollutants in surface waters, sediments, and aquatic biota," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 8, 142-155.

Hébert N, Gagné F, Cejka P, Cyr D, Marcogliese DJ, Blaise C, et al. "The effects of a primary-treated municipal effluent on the immune system of rainbow trout (Oncorhynchus mykiss): Exposure duration and contribution of suspended particles," *Comp Biochem Physiol Part C Toxicol Pharmacol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6W89-4STPKFV-1/1/ae99da7efcbc3bb12e7fce679aa0f60b.

Heckmann L-H, Callaghan A, Hooper HL, Connon R, Hutchinson TH, Maund SJ, et al. "Chronic toxicity of ibuprofen to Daphnia magna: Effects on life history traits and population dynamics," *Toxicol Lett* **2007**, *172*(3):137-145. http://www.sciencedirect.com/science/article/B6TCR-4NYSXJW-1/2/cbc7d7d76d9fca517c372e2cfd124b15.

Hegelund T, Ottosson K, Radinger M, Tomberg P, and Celander MC. "Effects of the antifungal imidazole ketoconozole on CYP1A and CYP3A in rainbow trout and killifish," *Environ Toxicol Chem* **2004**, *23*(5):1326-1334. http://dx.doi.org/10.1897%2F03-155.

Heidler J, and Halden RU. "Mass balance assessment of triclosan removal during conventional sewage treatment," *Chemosphere* **2007**, *66*(2):362-369. http://www.sciencedirect.com/science/article/B6V74-4K5HW9R-3/2/b001839f6d77cf64375de0896ad451d9.

Heidler J, and Halden RU. "Meta-Analysis of Mass Balances Examining Chemical Fate during Wastewater Treatment," *Environ Sci Technol* **2008**, *In Press* http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es703008y.

Heidler J, Sapkota A, and Halden RU. "Partitioning, Persistence, and Accumulation in Digested Sludge of the Topical Antiseptic Triclocarban during Wastewater Treatment," *Environ Sci Technol* **2006**, *40*(11):3634-3639. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es052245n.

Heim S, Schwarzbauer J, Kronimus A, Littke R, Woda C, and Mangini A. "Geochronology of anthropogenic pollutants in riparian wetland sediments of the Lippe River (Germany)," *Organic*

Geochem **2004**, *35*(11-12):1409-1425. http://www.sciencedirect.com/science/article/B6V7P-4D5XC2T-1/2/9a7ee660d2acef8af25cf57e6063d81c.

Heinrich A. "Tracing Pharmaceuticals in the Unsaturated Zone," *J Soils Sediments* **2007**, 7(2):75-84. http://dx.doi.org/10.1065/jss2006.12.200 http://www.springerlink.com/content/x017r435072t1734/.

Heise J, Holtge S, Schrader S, and Kreuzig R. "Chemical and biological characterization of nonextractable sulfonamide residues in soil," *Chemosphere* **2006**, *65*(11):2352-2357. http://www.sciencedirect.com/science/article/B6V74-4K5SSYN-6/2/f5969bdd8256d9288852f1778de37a8e.

Heitman J. "Cell biology. A fungal Achilles' heel," *Science* **2005**, *309*(5744):2175-2176. http://www.ncbi.nlm.nih.gov/pubmed/16195450?dopt=Abstract.

Hektoen H, Berge JA, Hormazabal V, and Yndestad M. "Persistence of antibacterial agents in marine sediments," *Aquaculture* **1995**, *133*(3-4):175-184. http://www.sciencedirect.com/science/article/B6T4D-3Y45DMT-1/2/8a673e6d5177f29739911fa4c1264505.

Heller DN, and Nochetto CB. "Development of multiclass methods for drug residues in eggs: Silica SPE cleanup and LC-MS/MS analysis of ionophore and macrolide residues," *J Agric Food Chem* **2004**, *52*(23):6848-6856.

Helma C, Eckl P, Gottmann E, Kassie F, Rodinger W, Steinkellner H, et al. "Genotoxic and ecotoxic effects of groundwaters and their relation to routinely measured chemical parameters," *Environ Sci Technol* **1998**, *32*(12):1799-1805.

Helmuth L. "One mouse's meat is another one's poison," Science 1999, 285:1190-1191.

Heltsley RM, Becker PR, Kucklick JR, Peck AM, Schantz MM, and Lippa KA. "An estimation of illicit drugs from chemical measurements in municipal wastewater," Chem. Sci. and Technol. Laboratory, National Institute of Standards and Technology, and Energy and Environmental Technologies, 2006, 2 pp. http://www.cstl.nist.gov/projects/proj06.htm.

Hembrock-Heger A, and Bergmann A. "Eintrag von Arzneimitteln und deren Verhalten und Verbleib in der Umwelt – Literaturstudie [Entry of drugs and their behavior and the whereabouts in the environment - literature study]," Landesamt für Natur, Umwelt und Verbraucherschutz Nordrhein-Westfalen, Recklinghausen, Germany, 2007, 357 pp. http://www.lanuv.nrw.de/veroeffentlichungen/fachberichte/fabe2/lanuvfabe2.pdf.

Hemmer D. "Wyoming officials considering Yellowstone pollution fines," Las Vegas Review Journal, 1998 B.

Hemming JM, Allen HJ, Thuesen KA, Turner PK, Waller WT, Lazorchak JM, et al. "Temporal and spatial variability in the estrogenicity of a municipal wastewater effluent," *Ecotoxicol Environ Safety* **2004**, *57*(3):303-310. http://www.sciencedirect.com/science/article/B6WDM-4899VRX-2/2/61a0f96dbae4380285e362a5ca68b9a8.

Hemming JM, Waller WT, Chow MC, Denslow ND, and Venables B. "Assessment of the estrogenicity and toxicity of a domestic wastewater effluent flowing through a constructed wetland system using biomarkers in male fathead minnows (Pimephales promelas Rafinesque, 1820)," *Environ Toxicol Chem* **2001**, *20*(10):2268-2275. <Go to ISI>://CCC:000172820300020.

Hemminger P. "Damming the flow of drugs into drinking water," *Environ Health Perspect* **2005**, *113*(10):678-681.

Hemmings SNJ, and Hartel PG. "Mineralization of hormones in breeder and broiler litters at different water potentials and temperatures," *J Environ Qual* **2006**, *35*(3):701-706.

Hempel H, Scheffczyk A, Schallnab HJ, Lumaret JP, Alvinerie M, and Römbke J. "Toxicity of four veterinary parasiticides on larvae of the dung beetle Aphodius constans in the laboratory," *Environ Toxicol Chem* **2006**, *25*(12):3155-3163. http://www.ncbi.nlm.nih.gov/pubmed/17220084.

Henderson S. "Hospital pharmacy: survey of unwanted medicines," Pharm J 1984, 232:603-605.

Hendriksen RS, Mevius DJ, Schroeter A, Teale C, Meunier D, Butaye P, et al. "Prevalence of antimicrobial resistance among bacterial pathogens isolated from cattle in different European countries: 2002-2004 "*Acta Veterinaria Scandinavica* **2008**, *50*(28) http://www.actavetscand.com/content/50/1/28.

Heneweer M, Houtman R, Poortman J, Groot M, Maliepaard C, and Peijnenburg A. "Estrogenic Effects in the Immature Rat Uterus After Dietary Exposure to Ethinylestradiol and Zearalenone Using a Systems Biology Approach," *Toxicol Sci* **2007**, *99*(1):303-314. http://toxsci.oxfordjournals.org/cgi/content/abstract/kfm151v1.

Heneweer M, Muusse M, Berg Mvd, and Sanderson JT. "Additive estrogenic effects of mixtures of frequently used UV filters on pS2-gene transcription in MCF-7 cells," *Toxicol Appl Pharmacol* 2005, 208(2):170-177. http://www.sciencedirect.com/science/article/B6WXH-4FSCMFR-1/2/0283465559b184400de31733561775f9.

Hennebruder K, Wennrich R, Mattusch J, Stark H-J, and Engewald W. "Determination of gadolinium in river water by SPE preconcentration and ICP-MS," *Talanta* **2004**, *63*(2):309-316. http://www.sciencedirect.com/science/article/B6THP-4BM8M3S-5/2/11141e3a234a41675825f7e7167fdf69.

Henriques IS, Fonseca F, Alves A, Saavedra MJ, and Correia A. "Occurrence and diversity of integrons and [beta]-lactamase genes among ampicillin-resistant isolates from estuarine waters," *Res Microbiol* **2006**, *157*(10):938-947. http://www.sciencedirect.com/science/article/B6VN3-4M6JHRK-1/2/480233c1bccf6f4d27d0c8173ae3e07c.

Henry CM. "Nutraceuticals: fad or trend?," Chem Eng News 1999, 77(48):42-47.

Henry CM. "Antibiotic resistance," Chem Eng News 2000, (6 March):41-58.

Henry CM. "Drug delivery," Chem Eng News 2002, 80(34):39-47.

Henry CM. "Drawing with mass spec," *Chem Eng News* **2004**:33-35. http://nxw.chem.psu.edu/nxw/C&EN%20SCIENCE%20&%20TECHNOLOGY%20-%20DRAWING%20WITH%20MASS%20SPEC.htm.

Henry MP, Donlon BA, Lens PN, and Colleran EM. "Use of anaerobic hybrid reactors for treatment of synthetic pharmaceutical wastewaters containing organic solvents," *J Chem Technol Biotechnol* **1996**, *66*(3):251-264. http://dx.doi.org/10.1002/(SICI)1097-4660(199607)66:3<251::AID-JCTB496>3.0.CO;2-S.

Henry T, and Black M. "Acute and Chronic Toxicity of Fluoxetine (Selective Serotonin Reuptake Inhibitor) in Western Mosquitofish," *Arch Environ Contamin Toxicol* **2008**, *54*(2):325-330. http://dx.doi.org/10.1007/s00244-007-9018-0.

Henry TB, and Black MC. "Mixture and single-substance acute toxicity of selective serotonin reuptake inhibitors in ceriodaphnia dubia," *Environ Toxicol Chem* **2007**, *26*(8):1751-1755. http://dx.doi.org/10.1897%2F06-265R.1.

Henry TB, Kwon J-W, Armbrust KL, and Black MC. "Acute and chronic toxicity of five selective serotonin reuptake inhibitors in ceriodaphnia dubia," *Environ Toxicol Chem* **2004**, *23*(9):2229-2233. http://dx.doi.org/10.1897%2F03-278.

Henschel KP, Wenzel A, Diedrich M, and Fliedner A. "Environmental Hazard Assessment of Pharmaceuticals," *Reg Toxicol Pharmacol* **1997**, *25*(3):220-225. http://www.sciencedirect.com/science/article/B6WPT-45K13WR-10/2/f801dacfad3a31b65774562b35357374.

Hense BA, Severin GF, Welzl G, and Schramm KW. "Effects of 17 alpha-ethinylestradiol on zoo- and phytoplankton in lentic microcosms," *Anal Bioanal Chem* **2004**, *378*(3):716-724.

Hensley S, and Murray S. "Use of samples in drug industry raises concern," Wall Street J, 2000 B1.

Hercegova A, and Polonsky J. "Determination of non-steroidal anti-inflammatory drugs in biological fluids," *Pharmazie* **1999**, *54*:479-486. http://www.ncbi.nlm.nih.gov/pubmed/10445241.

Herlocker H. "Antibiotics in the food chain," Chem Matters 2000, (October):14-15.

Hermening A, Grafe A-K, Baktir G, Mutschler E, and Spahn-Langguth H. "Gemfibrozil and its oxidative metabolites: quantification of aglycones, acyl glucuronides, and covalent adducts in samples from preclinical and clinical kinetic studies," *J Chromatogr B: Biomed Sci Applications* **2000**, *741*(2):129-144. http://www.sciencedirect.com/science/article/B6TG9-407GKCJ-3/2/0a38f122998881ac3bb4dbd329a8d642.

Hernandez F, Sancho JV, Ibanez M, and Guerrero C. "Antibiotic residue determination in environmental waters by LC-MS," *TrAC Trends in Anal Chem* **2007**, *26*(6):466-485. http://www.sciencedirect.com/science/article/B6V5H-4MWXPPN-1/2/9d5acf26c3f0d3b4e060e1250e9501a1.

Hernando Guil MD, Petrović M, Radjenovic J, Fernandez-Alba AR, Fernandez-Alba AR, and Barceló D. "Removal of pharmaceuticals in wastewater and drinking water treatments – Removal of

pharmaceuticals by advanced treatment technologies," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 4.2, 451-474. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Hernando MD, Aguera A, and Fernandez-Alba AR. "LC-MS analysis and environmental risk of lipid regulators," *Anal Bioanal Chem* **2007**, *387*(4):1269-1285.

Hernando MD, De Vettori S, Martínez Bueno MJ, and Fernández-Alba AR. "Toxicity evaluation with Vibrio fischeri test of organic chemicals used in aquaculture," *Chemosphere* **2007**, *68*(4):724-730. http://www.sciencedirect.com/science/article/B6V74-4N14D32-C/2/e839df2fa2406a898e9ced9b90a34df6.

Hernando MD, Fernandez-Alba AR, Tauler R, and Barcelo D. "Toxicity assays applied to wastewater treatment," *Talanta* **2005**, *65*(2):358-366. http://www.sciencedirect.com/science/article/B6THP-4D60KGN-1/2/58464c1e8e98fcde0a604b0ae779ab96.

Hernando MD, Gómez MJ, Agüera A, and Fernández-Alba AR. "LC-MS analysis of basic pharmaceuticals (beta-blockers and anti-ulcer agents) in wastewater and surface water," *TrAC Trends in Anal Chem* **2007**, *26*(6):581-594.

Hernando MD, Heath E, Petrovic M, and Barcelo D. "Trace-level determination of pharmaceutical residues by LC-MS/MS in natural and treated waters. A pilot-survey study," *Anal Bioanal Chem* **2006**, *385*(6):985-991.

Hernando MD, Mezcua M, Fernandez-Alba AR, and Barcelo D. "Environmental risk assessment of pharmaceutical residues in wastewater effluents, surface waters and sediments," *Talanta* **2006**, *69*(2):334-342. http://www.sciencedirect.com/science/article/B6THP-4HKMPM7-1/2/4d7f440557973b8faa10c556fb95b43b.

Hernando MD, Mezcua M, Gomez MJ, Malato O, Aguera A, and Fernandez-Alba AR. "Comparative study of analytical methods involving gas chromatography-mass spectrometry after derivatization and gas chromatography-tandem mass spectrometry for the determination of selected endocrine disrupting compounds in wastewaters," *J Chromatogr A* **2004**, *1047*(1):129-135. http://www.sciencedirect.com/science/article/B6TG8-4D04TRR-3/2/e46156b3aaab336d7d3e7e8c665779df.

Hernando MD, Mezcua M, Suarez-Barcena JM, and Fernandez-Alba AR. "Liquid chromatography with time-of-flight mass spectrometry for simultaneous determination of chemotherapeutant residues in salmon," *Anal Chimica Acta* **2006**, *562*(2):176-184.

Hernando MD, Petrovic M, Fernandez-Alba AR, and Barcelo D. "Analysis by liquid chromatographyelectro spray ionization tandem mass spectrometry and acute toxicity evaluation for beta-blockers and lipid-regulating agents in wastewater samples," *J Chromatogr A* **2004**, *1046*:133-140.

Herren D, and Berset JD. "Nitro musks, nitro musk amino metabolites and polycyclic musks in sewage sludges: Quantitative determination by HRGC-ion-trap-MS/MS and mass spectral characterization of the amino metabolites," *Chemosphere* **2000**, *40*(5):565-574.

http://www.sciencedirect.com/science/article/B6V74-3YGDFJM-2D/2/d99974630692c48188fedb4a3306c2f7.

Herring ME, Shah SK, Shah SK, and Gupta AK. "Current Regulations and Modest Proposals Regarding Disposal of Unused Opioids and Other Controlled Substances," *J Am Osteopath Assoc* **2008**, *108*(7):338-343.

 $http://www.products teward ship.us/associations/6596/files/CurrentRegulationsUnusedOpiods_JAOA.pdf.$

Herrmann K. "Teratogenic Effects of Retinoic Acid and Related Substances on the Early Development of the Zebrafish (Brachydanio rerio) as Assessed by a Novel Scoring System," *Toxicol Vitro* **1995**, *9*(3):267-283.

http://www.ingentaconnect.com/content/els/08872333/1995/00000009/00000003/art00012 http://dx.doi.org/10.1016/0887-2333(95)00012-W.

Heuer H, Krogerrecklenfort E, Wellington EMH, Egan S, Van Elsas JD, Van Overbreek L, et al. "Gentamicin resistance genes in environmental bacteria: prevalence and transfer," *FEMS Microbiol Ecol* **2002**, *42*(2):163. http://cat.inist.fr/?aModele=afficheN&cpsidt=14014462.

Heuer H, and Smalla K. "Manure and sulfadiazine synergistically increased bacterial antibiotic resistance in soil over at least two months," *Environ Microbiol* **2007**, *9*(3):657-666.

Hewitt M, and Servos M. "An overview of substances present in Canadian aquatic environments associated with endocrine disruption," *Wat Qual Res J Canada* **2001**, *36*(3):191-213. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5154689.

Hewitt SC, Deroo BJ, and Korach KS. "A new mediator for an old hormone?," *Science* **2005**, *307*(5726):1572-1573.

Heylin M. "Biotechnology steps in it again down on the farm," *Chem Eng News* **2000**, (11 December):42.

Hignite C, and Azarnoff DL. "Drug and drug metabolites as environmental contaminants: Chlorophenoxyisobutyrate and salicylic acid in sewage water effluent," *Life Sci* **1977**, *20*(2):337-341.

Hildebrand C, Londry KL, and Farenhorst A. "Sorption and desorption of three endocrine disrupters in soils," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2006**, *41*(6):907-921.

Hileman B. "Chemical testing plan draws praise," Chem Eng News 1998:18 pp.

Hileman B. "Livestock antibiotic debate heats up," Chem Eng News 1999, (25 October):32-35.

Hileman B. "FDA examines its priorities," Chem Eng News 2000, (6 March):35-36.

Hileman B. "Poultry antibiotics pose human threat," Chem Eng News 2000, (6 November):11.

Hileman B. "Seeking control of internet drug sales," Chem Eng News 2000, January 17:42-43.

Hileman B. "Drugs online face scrutiny," Chem Eng News 2001, (1 October):51-55.

Hileman B. "Furor over animal antibiotic use," Chem Eng News 2001, (19 February):47-52.

Hileman B. "Resistance is on the rise - FDA proposes criteria for restricting or banning certain antibiotics in livestock," *Chem Eng News* **2001**, (19 February):47-52.

Hileman B. "Troubled waters," Chem Eng News 2001, (3 December):31-33.

Hileman B. "Drugs from plants stir debate," Chem Eng News 2002:22-25.

Hill RL, and Janz DM. "Developmental estrogenic exposure in zebrafish (Danio rerio): I. Effects on sex ratio and breeding success," *Aqua Toxicol* **2003**, *63*(4):417-429. http://www.sciencedirect.com/science/article/B6T4G-47WDB5D-2/1/f698040751e247ef78ea33e2f6dc2bc4.

Hillis DG, Antunes P, Sibley PK, Klironomos JN, and Solomon KR. "Structural responses of Daucus carota root-organ cultures and the arbuscular mycorrhizal fungus, Glomus intraradices, to 12 pharmaceuticals," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T2J13M-1/2/ed1120a89cc33e25c5666e09cc3b3f79.

Hillis DG, Lissemore L, Sibley PK, and Solomon KR. "Effects of Monensin on Zooplankton Communities in Aquatic Microcosms," *Environ Sci Technol* **2007**, *41*(18):6620-6626. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es070799f.

Hilton MJ, and Thomas KV. "Determination of selected human pharmaceutical compounds in effluent and surface water samples by high-performance liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* **2003**, *1015*(1-2):129-141. http://www.sciencedirect.com/science/article/B6TG8-4991RN7-1/2/219dfd44f79947fb89947eecea5943e2.

Hilton MJ, Thomas KV, and Ashton D. "Targeted Monitoring Programme for Pharmaceuticals in the Aquatic Environment," 2003, pp. http://www.environment-agency.gov.uk/commondata/acrobat/p601206trv2_578719.pdf.

Hilvarsson A, Halldorsson HP, and Granmo A. "Medetomidine as a candidate antifoulant: Sublethal effects on juvenile turbot (Psetta maxima L.)," *Aqua Toxicol* **2007**, *83*(3):238-246. http://www.sciencedirect.com/science/article/B6T4G-4NNYJ4H-1/2/791d922dfe0ef14c3b79d8546c6900af.

Himmelsbach M, Buchberger W, and Klampfl CW. "Determination of antidepressants in surface and waste water samples by capillary electrophoresis with electrospray ionization mass spectrometric detection after preconcentration using off-line solid-phase extraction," *ELECTROPHORESIS* **2006**, *27*:1220-1226.

Himmelsbach M, Buchberger W, and Miesbauer H. "Determination of pharmaceutical drug residues on suspended particulate material in surface water," *Internat J Environ Anal Chem* **2003**, *83*(6):481-486.

Himmelsbach M, Klampfl CW, and Buchberger W. "Development of an analytical method for the determination of antidepressants in water samples by capillary electrophoresis with electrospray ionization mass spectrometric detection," *J Separation Sci* **2005**, *28*(14):1735-1741.

Hinck JE, Blazer VS, Denslow ND, Echols KR, Gross TS, May TW, et al. "Chemical contaminants, health indicators, and reproductive biomarker responses in fish from the Colorado River and its tributaries," *Sci Total Environ* **2007**, *378*(3):376-402. http://www.sciencedirect.com/science/article/B6V78-4NDVGTN-3/2/9b575f1a6fb2368317e645eeacd73829.

Hinfray N, Porcher JM, and Brion F. "Inhibition of rainbow trout (Oncorhynchus mykiss) P450 aromatase activities in brain and ovarian microsomes by various environmental substances," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2006**, *144*(3):252-262.

Hino T, Serigano T, Yamamoto H, Takeuchi H, Niwa T, and Kawashima Y. "Particle design of Wogon extract dry powder for inhalation aerosols with granulation method," *Internat J Pharmaceutics* **1998**, *168*(1):59-68. http://www.sciencedirect.com/science/article/B6T7W-3T292S0-8/2/7136a9a93825f02a00fe6ffeb6b258c8.

Hintemann T, Schneider C, Scholer HF, and Schneider RJ. "Field study using two immunoassays for the determination of estradiol and ethinylestradiol in the aquatic environment," *Wat Res* **2006**, *40*(12):2287-2294. http://www.sciencedirect.com/science/article/B6V73-4K5HW9M-2/2/5dad8e028d53dda587c7f935eb1d13c8.

Hinton DE, Kullman SW, Hardman RC, Volz DC, Chen P-J, Carney M, et al. "Resolving mechanisms of toxicity while pursuing ecotoxicological relevance?," *Mar Pollut Bull* **2005**, *51*(8-12):635-648. http://www.sciencedirect.com/science/article/B6V6N-4H2PR2P-1/2/6708efca9a335d7b49f6564f05da7b83.

Hirose J, Kondo F, Nakano T, Kobayashi T, Hiro N, Ando Y, et al. "Inactivation of antineoplastics in clinical wastewater by electrolysis," *Chemosphere* **2005**, *60*(8):1018-1024. http://www.sciencedirect.com/science/article/B6V74-4FJGW38-2/1/2ae5c0f5aa12773f02f57056cc03a466.

Hirsch R, Ternes T, Haberer K, and Kratz K-L. "Occurrence of antibiotics in the aquatic environment," *Sci Total Environ* **1999**, *225*(1-2):109-118. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-C/2/76a1d35d012c52acaca39ea6bf157329.

Hirsch R, Ternes TA, Haberer K, Mehlich A, Ballwanz F, and Kratz K-L. "Determination of antibiotics in different water compartments via liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* **1998**, *815*(2):213-223. http://www.sciencedirect.com/science/article/B6TG8-3TBD3NG-7/2/36f6863d7b8ed0a7458f69039f7bea11.

Hirsch R, Ternes TA, Lindart A, Haberer K, and Wilken RD. "A sensitive method for the determination of iodine containing diagnostic agents in aqueous matrices using LC-electrospray-tandem-MS detection," *Fres J Anal Chem* **2000**, *366*(8):835-841. http://www.ncbi.nlm.nih.gov/pubmed/11227418. Hirsch RM, Hamilton PA, and Miller TL. "U.S. geological survey perspective on water-quality monitoring and assessment," *J Environ Monit* **2006**, 8:512-518.

Hirsch RM, Ternes TA, Haberer K, and Kratz K-L. "Determination of Beta-blockers and B-sympathomimetics in the aquatic environment," *Vom Wasser* **1996**, *87*:263-274.

Hitchcock D. "Secret Potion Drugs in our waterways," Axis Performance Advisors, Inc, 2005, pp. http://www.pacifier.com/~axis/S23Drugs.html.

Ho M. "Taiwan seeks to solve its resistance problems," Science 2001, 291(30 March):2550-2551.

Hoa PTP, Nonaka L, Hung Viet P, and Suzuki S. "Detection of the sul1, sul2, and sul3 genes in sulfonamide-resistant bacteria from wastewater and shrimp ponds of north Vietnam," *Science of The Total Environment* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4T53HH0-3/2/5e6a5b49db6f9c6807a8aae5812d97d9.

Hoang A. "Caspofungin acetate: An antifungal agent," *Am J Health - System Pharmacy* **2001**, *58*:1206-1214.

Hobson JF, and Silberhorn EM. "Octamethylcyclotetrasiloxane (OMCTS), a case study – summary and aquatic risk assessment," *Environ Toxicol Chem* **1995**, *14*(10):1667-1673.

Hoeger B, Dietrich DR, Schmid D, Hartmann A, and Hitzfeld B. "Distribution of intraperitoneally injected diclofenac in brown trout (Salmo trutta f. fario)," *Ecotoxicol Environ Safety* **2008**, *In Press*, *Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4RWC51T-3/2/748f006e6b09d712ac9a56e2750abd07.

Hoeger B, Hitzfeld B, Kollner B, Dietrich DR, and van den Heuvel MR. "Sex and low-level sampling stress modify the impacts of sewage effluent on the rainbow trout (Oncorhynchus mykiss) immune system," *Aqua Toxicol* **2005**, *73*(1):79-90. http://www.sciencedirect.com/science/article/B6T4G-4FY3NXH-1/2/280a8cb8d43ac629b6d2d8a1c4a1e572.

Hoeger B, Koellner B, Kotterba G, van den Heuvel MR, Hitzfeld B, and Dietrich DR. "Influence of chronic exposure to treated sewage effluent on the distribution of white blood cell populations in rainbow trout (Oncorhynchus mykiss) spleen," *Toxicol Sci* **2004**, *82*(1):97-105.

Hoeger B, Kollner B, Dietrich DR, and Hitzfeld B. "Water-borne diclofenac affects kidney and gill integrity and selected immune parameters in brown trout (Salmo trutta f. fario)," *Aqua Toxicol* **2005**, 75(1):53-64. http://www.sciencedirect.com/science/article/B6T4G-4H0YYR4-1/2/4e97eff6604a0333f92a524655be4e3a.

Hoeger B, van den Heuvel MR, Hitzfeld BC, and Dietrich DR. "Effects of treated sewage effluent on immune function in rainbow trout (Oncorhynchus mykiss)," *Aqua Toxicol* **2004**, *70*(4):345-355. http://www.sciencedirect.com/science/article/B6T4G-4DW380B-2/2/5c219948e80311febd93a63f9b4b7e5d.

Hoenicke R, Oros DR, Oram JJ, and Taberski KM. "Adapting an ambient monitoring program to the challenge of managing emerging pollutants in the San Francisco Estuary," *Environmental Research*

2007, *105*(1):132-144. http://www.sciencedirect.com/science/article/B6WDS-4N5KY35-1/2/e18501af6934169cb8bf9d3f2a8e34be.

Hoerauf A, Buttner DW, Adjei O, and Pearlman E. "Science, medicine, and the future - Onchocerciasis," *British Med J* 2003, *326*:207-210B.

Hoffmann JL, Torontali SP, Thomason RG, Lee DM, Brill JL, Price BB, et al. "Hepatic gene expression profiling using Genechips in zebrafish exposed to 17α-ethynylestradiol," *Aqua Toxicol* **2006**, *79*(3):233-246. http://www.sciencedirect.com/science/article/B6T4G-4KGPP3X-1/1/742ea08056b2c46a9e9c6fedf11a055b.

Hofmann J, Freier U, Wecks M, and Hohmann S. "Degradation of diclofenac in water by heterogeneous catalytic oxidation with H₂O₂," *Appl Catalysis B: Environ* **2007**, *70*(1-4):447-451. http://www.sciencedirect.com/science/article/B6TF6-4K7WJ4J-4/2/abaa284521a7d74b50383bf10f558c05.

Hoftberger M, and Lutz-Meindl U. "Septum formation in the desmid Xanthidium (Chlorophyta): Effects of cytochalasin D and latrunculin B suggest the involvement of actin microfilaments," *J Phycol* **1999**, *35*:768-777.

Hogan NS, Duarte P, Wade MG, Lean DRS, and Trudeau VL. "Estrogenic exposure affects metamorphosis and alters sex ratios in the northern leopard frog (Rana pipiens): Identifying critically vulnerable periods of development," *Gen Comp Endocrinol* **2008**, *156*(3):515-523. http://www.sciencedirect.com/science/article/B6WG0-4S3G3VF-1/1/6f2d8586f066f42ccc15b9d888c57677.

Hogan NS, Lean DRS, and Trudeau VL. "Exposures to estradiol, ethinylestradiol and octylphenol affect survival and growth of Rana pipiens and Rana sylvatica tadpoles," *J Toxicol Environ Health - Part A - Current Issues* **2006**, *69*(16):1555-1569. *http://dx.doi.org/10.1080/15287390500470759*

Hogenboom AC, van Leerdam JA, and de Voogt P. "Accurate mass screening and identification of emerging contaminants in environmental samples by liquid chromatography-hybrid linear ion trap Orbitrap mass spectrometry," *Journal of Chromatography A* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TG8-4T8JXF6-1/2/948542401273f784093bfbce1a164bfd.

Hoger B, Taylor S, Hitzfeld B, Dietrich DR, and van den Heuvel MR. "Stimulation of reproductive growth in rainbow trout (Oncorhynchus mykiss) following exposure to treated sewage effluent," *Environ Toxicol Chem* **2006**, *25*(10):2753-2759.

Hogue C. "EPA policy targets persistent chemicals," Chem Eng News 1999, November 15:10-11.

Hogue C. "Toxicogenomics uses genes as a toxic screen," Chem Eng News 2001, (March 19):33-34.

Hogue C. "New policy rules: NRC probes use of toxicogenomics data for control of drugs, pollutants, workplace chemicals," *Chem Eng News* **2002**, (18 November):55-57.

Hogue C. "Methamphetamine pollution: congress considers funding research to help guide the cleanup of illicit labs," *Chem Eng News* **2005**, *83*(13):25-27.

Hohenblum P, Gans O, Moche W, Scharf S, and Lorbeer G. "Monitoring of selected estrogenic hormones and industrial chemicals in groundwaters and surface waters in Austria," *Sci Total Environ* **2004**, *333*(1-3):185-193. http://www.sciencedirect.com/science/article/B6V78-4CT60W0-3/2/caa7ba8df74d35adbc737dd83ad0a2aa.

Höhfeld J, Cyr DM, and Patterson C. "From the cradle to the grave: molecular chaperones that may choose between folding and degradation," *EMBO Reports* **2001**, *2*(10):885-890.

Holbech H, Kinnberg K, Petersen GI, Jackson P, Hylland K, Norrgren L, et al. "Detection of endoctrine disrupters: evaluation of a fish sexual development test (FSDT)," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2006**, *144*(1):57-66.

Holbrook RD, Love NG, and Novak JT. "Sorption of 17 ß-estradiol and 17 a-ethinylestradiol by colloidal organic carbon derived from biological wastewater treatment systems," *Environ Sci Technol* **2004**, *38*(12):3322-3329.

Holbrook RD, Love NG, and Novak JT. "Sorption of 17ß-estradiol and 17alpha-ethinylestradiol by colloidal organic carbon derived from biological wastewater treatment systems," *Environ Sci Technol* **2004**, *38*(12):3322-3329.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15260331.

Holbrook RD, Novak JT, Grizzard TJ, and Love NG. "Estrogen receptor agonist fate during wastewater and biosolids treatment processes: A mass balance analysis," *Environ Sci Technol* **2002**, *36*(21):4533-4539.

Holbrook RD, Novak JT, Grizzard TJ, and Love NG. "Response to Comment on "Estrogen Receptor Agonist Fate during Wastewater and Biosolids Treatment Processes: A Mass Balance Analysis"," *Environ Sci Technol* **2003**, *37*(20):4821-4822. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es030079i.

Holland PT. "Analysis of endocrine active substances in food and the environment," *Pure Appl Chem* **2003**, *75*(11-12):1843-1857.

Hollert H, Durr M, Holtey-Weber R, Islinger M, Brack W, Farber H, et al. "Endocrine disruption of water and sediment extracts in. a non-radioactive dot blot/RNAse protection-assay using isolated hepatocytes of rainbow trout - Deficiencies between bioanalytical effectiveness and chemically determined concentrations and how to explain them," *Environ Sci Pollut Res* **2005**, *12*(6):347-360.

Holling CS. "The resilience of terrestrial ecosystems; local surprise and global change," in *Sustainable Development of the Biosphere*, Clark WC and Munn RE, Eds., Cambridge University Press; Cambridge, U.K., 1986, 292-317.

Hollingsworth RG, Armstrong JW, and Campbell E. "Caffeine as a repellent for slugs and snails: At high concentrations this stimulant becomes a lethal neurotoxin to garden pests," *Nature* **2002**, *417*:915-916.

Holm JV, Rügge K, Bjerg PL, and Christensen TH. "Occurrence and distribution of pharmaceutical organic compounds in the groundwater downgradient of a landfill (Grindsted, Denmark)," *Environ Sci Technol* **1995**, *29*(5):1415-1420.

Holmes M, Bonner M, and Wristen KG. "The National Sewage Report Card (Number Two): Rating the Treatment Methods and Discharges of 21 Canadian Cities," ISBN 0-9698351-2-4, Vancouver, BC, Canada, August, 1999, 66 pp. http://www.georgiastrait.org/files/share/PDF/sewage_report_card_2.pdf.

Holmstrom K, Graslund S, Wahlstrom A, Poungshompoo S, Bengtsson BE, and Kautsky N. "Antibiotic use in shrimp farming and implications for environmental impacts and human health," *Internat J Food Sci Technol* **2003**, *38*(3):255-266.

Holt LM, Laursen AE, McCarthy LH, Bostan IV, and Spongberg AL. "Changes to microbial nitrogenfixation, respiration, and community structure following land-application of municipal biosolids," Moving Forward: Wastewater Biosolids Sustainability: Technical, Managerial, and Public Synergy Conference, Moncton, New Brunswick, Canada,

http://bvsde.per.paho.org/bvsaar/cdlodos/pdf/changestomicrobial819.pdf.

Holten Lützhöft H-C. "Environmental risk assessment of antimicrobials," Doctoral Dissertation, Royal Danish School of Pharmacy, Dept Analytical and Pharmaceutical Chemistry, Copenhagen, Denmark, 2000. pp.

Holten Lützhøft H-C, Vaes WHJ, Freidig AP, Halling-Sørensen B, and Hermens JLM. "The influence of pH and other modifying factors on the distribution behavior of 4-quinolones to solid phases and humic acids studied by 'negligible-depletion' SPME-HPLC," *Environ Sci Technol* **2000**, *34*:4989-4994.

Holtge S, and Kreuzig R. "Laboratory testing of sulfamethoxazole and its metabolite acetyl-sulfamethoxazole in soil," *Clean-Soil Air Wat* **2007**, *35*(1):104-110.

Holthaus KIE, Johnson AC, Jurgens MD, Williams RJ, Smith JJL, and Carter JE. "The potential for estradiol and ethinylestradiol to sorb to suspended and bed sediments in some English rivers," *Environ Toxicol Chem* **2002**, *21*(12):2526-2535.

Holtz S. "There Is No "Away": Pharmaceuticals, Personal Care Products, and Endocrine-disrupting Substances: Emerging Contaminants Detected in Water," Canadian Institute for Environmental Law and Policy, 1-896588-54-9, Toronto, Ontario, Canada, January, 2006, 82 pp. http://www.cielap.org/pub/pub_noaway.html.

Hong C, Ying HJ, LeZheng W, and Bing S. "Occurrence of sulfonamide antibiotics in sewage treatment plants," *Chinese Sci Bull* **2008**, *53*(4):514-520. http://dx.doi.org/10.1007/s11434-008-0123-x.

Hong HN, Kim HN, Park KS, Lee S-K, and Gu MB. "Analysis of the effects diclofenac has on Japanese medaka (Oryzias latipes) using real-time PCR," *Chemosphere* **2007**, *67*(11):2115-2121. http://www.sciencedirect.com/science/article/B6V74-4N3GWYJ-8/2/50cd49bde4edf197f481f98f2af0a243.

Hontela A. "Corticosteroidogenesis and StAR protein of rainbow trout disrupted by human-use pharmaceuticals: data for use in risk assessment," *Toxicol Sci* **2006**, *93*(1):1-2.

Hood HL, Wickett RR, and Bronaugh RL. "In vitro percutaneous absorption of the fragrance ingredient musk xylol," *Food Chem Toxicol* **1996**, *34*(5):483-488. http://www.ncbi.nlm.nih.gov/pubmed/8655098.

Hook SE, and Fisher NS. "Sublethal effects of silver in zooplankton: Importance of exposure pathways and implications for toxicity testing," *Environ Toxicol Chem* **2001**, *20*(3):568-574.

Hook SE, Skillman AD, Small JA, and Schultz IR. "Gene expression patterns in rainbow trout, Oncorhynchus mykiss, exposed to a suite of model toxicants," *Aqua Toxicol* **2006**, *77*(4):372-385. http://www.sciencedirect.com/science/article/B6T4G-4J9MSM6-2/2/1260693df8cc2d2102e4c369fb138b59.

Hook SE, Skillman AD, Small JA, and Schultz IR. "Temporal changes in gene expression in rainbow trout exposed to ethynyl estradiol," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2007**, *145*(1):73-85. http://www.sciencedirect.com/science/article/B6W89-4MDWY2W-1/2/0d1cf9fba73ac921ed47471f4f79810a.

Hoover RN. "Cancer -- nature, nurture, or both," *New England J Med* **2000**, *343*(2):135-136. http://content.nejm.org/cgi/content/short/343/2/135.

Hopkins AL. "Network pharmacology – network biology illunimates our understanding of drug action," *Nature Biotechnol* **2007**, *25*(10):1110-1111.

Horii Y, Reiner JL, Loganathan BG, Senthil Kumar K, Sajwan K, and Kannan K. "Occurrence and fate of polycyclic musks in wastewater treatment plants in Kentucky and Georgia, USA," *Chemosphere* **2007**, *68*(11):2011-2020.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17553543.

Horwitz DF. "Diagnosis and treatment of canine separation anxiety and the use of clomipramine hydrochloride (Clomicalm)," *J Am Animal Hosp Assoc* **2000**, *36*(2):107-109. http://www.jaaha.org/cgi/content/citation/36/2/107.

Horwitz P, and Wilcox BA. "Parasites, ecosystems and sustainability: an ecological and complex systems perspective," *Int J Parasitol* **2005**, *35*(7):725-732.

Höss S, and Weltje L. "Endocrine disruption in nematodes: effects and mechanisms," *Ecotoxicology* **2007**, *16*(1):15-28. http://dx.doi.org/10.1007/s10646-006-0108-y.

Hotchkiss AK, Furr J, Makynen EA, Ankley GT, and Gray LEJ. "In utero exposure to the environmental androgen trenbolone masculinizes female Sprague–Dawley rats," *Toxicol Lett* **2007**, *174*:31-41.

Hotchkiss AK, and Nelson RJ. "An Environmental Androgen, 17β-Trenbolone, Affects Delayed-Type Hypersensitivity and Reproductive Tissues in Male Mice," *J Toxicol Environ Health Part A Current Issues* **2007**, *70*(2):138 - 140. http://www.informaworld.com/10.1080/15287390600755091.

Houlihan J, and Wiles R. "Beauty Secrets: Does a Common Chemical in Nail Polish Pose Risks to Human Health?," Environmental Working Group, Washington, DC, 2000, 27 pp. http://www.ewg.org/book/export/html/8160.

Houtman CJ, Booij P, Jover E, Pascual del Rio D, Swart K, van Velzen M, et al. "Estrogenic and dioxin-like compounds in sediment from Zierikzee harbour identified with CALUX assay-directed fractionation combined with one and two dimensional gas chromatography analyses," *Chemosphere* **2006**, *65*(11):2244-2252. http://www.sciencedirect.com/science/article/B6V74-4KCXJ8W-1/2/c46f034fbe1efe0f8e7148f5278bedcd.

Houtman CJ, Booij P, van der Valk KM, van Bodegom PM, van den Ende F, Gerritsen AAM, et al. "Biomonitoring of estrogenic exposure and identification of responsible compounds in bream from Dutch surface waters," *Environ Toxicol Chem* **2007**, *26*(5):898-907.

Houtman CJ, Van Oostveen AM, Brouwer A, Lamoree MH, and Legler J. "Identification of estrogenic compounds in fish bile using bioassay-directed fractionation," *Environ Sci Technol* **2004**, *38*(23):6415-6423.

Hsieh MH, Grantham EC, Liu B, Macapagal R, Willingham E, and Baskin LS. "In Utero Exposure to Benzophenone-2 Causes Hypospadias Through an Estrogen Receptor Dependent Mechanism," *The Journal of Urology* **2007**, *178*(4, Supplement 1):1637-1642. http://www.sciencedirect.com/science/article/B7XMT-4PFFD4H-K/1/046d0d4dafba8ed6d2392b60e2cdd3d2.

Hsu LC, Constable DJC, Orvos DR, and Hannah RE. "Comparison of high-performance liquid chromatography and capillary zone electrophoresis in penciclovir biodegradation kinetic studies," *J Chromatogr B: Biomed Sci Applications* **1995**, *669*(1):85-92. http://www.sciencedirect.com/science/article/B6TG9-4002HR2-HB/1/3b367545e29c8eccdbeb0ba864fe1e8e.

Hu D, and Coats JR. "Aerobic degradation and photolysis of tylosin in water and soil," *Environ Toxicol Chem* **2007**, *26*(5):884-889.

Hu D, Fulton B, Henderson K, and Coats J. "Identification of Tylosin Photoreaction Products and Comparison of ELISA and HPLC Methods for Their Detection in Water," *Environ Sci Technol* **2008**, *42*(8):2982-2987. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es071885i.

Hu J, Shi J, Chang H, Li D, Yang M, and Kamagata Y. "Phenotyping and Genotyping of Antibiotic-Resistant Escherichia coli Isolated from a Natural River Basin," *Environ Sci Technol* **2008**, 42(9):3415-3420. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es7026746.

Hu J, Wang W, Zhu Z, Chang H, Pan F, and Lin B. "Quantitative Structure-Activity Relationship Model for Prediction of Genotoxic Potential for Quinolone Antibacterials," *Environ Sci Technol* **2007**, *41*(13):4806-4812. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es070031v.

Hu J, Zhang H, and Chang H. "Improved method for analyzing estrogens in water by liquid chromatography-electrospray mass spectrometry," *J Chromatogr A* **2005**, *1070*(1-2):221-224. http://www.sciencedirect.com/science/article/B6TG8-4FN4VTR-5/2/11213d954f77547b92b37795fa2c7892.

Hu JY, Chen X, Tao G, and Kekred K. "Fate of endocrine disrupting compounds in membrane bioreactor systems," *Environ Sci Technol* **2007**, *41*(11):4097-4102.

Hu JY, Jin X, and Ong SL. "Rejection of estrone by nanofiltration: Influence of solution chemistry," *J Membrane Sci* **2007**, *302*(1-2):188-196. http://www.sciencedirect.com/science/article/B6TGK-4P29KBB-2/1/d4e967be3e0551b6500fa3343a4ffbe2.

Hu L, Flanders PM, Miller PL, and Strathmann TJ. "Oxidation of sulfamethoxazole and related antimicrobial agents by TiO2 photocatalysis," *Wat Res* **2007**, *41*(12):2612-2626. http://www.sciencedirect.com/science/article/B6V73-4NGB9XD-2/1/c9140157b2d24219a2e4cc69fdb47f5a.

Hu R, Zhang L, and Yang Z. "Picogram determination of estrogens in water using large volume injection gas chromatography–mass spectrometry," *Anal Bioanal Chem* **2008**, *390*(1):349-359. http://dx.doi.org/10.1007/s00216-007-1683-3.

Hu XL, Liu SP, and Liu ZF. "Determination of kanamycin using flow injection analysis coupled with resonance Rayleigh scattering detection," *Bull Chem Soc Japan* **2006**, *79*:247-251.

Hua J, An P, Winter J, and Gallert C. "Elimination of COD, microorganisms and pharmaceuticals from sewage by trickling through sandy soil below leaking sewers," *Wat Res* **2003**, *37*(18):4395-4404. http://www.sciencedirect.com/science/article/B6V73-49C5C86-1/2/680dcd3641cf89c222dfe3eec9faed74.

Hua W, Bennett ER, and Letcher RJ. "Triclosan in waste and surface waters from the upper Detroit River by liquid chromatography-electrospray-tandem quadrupole mass spectrometry," *Environ Internat* **2005**, *31*(5):621-630. http://www.sciencedirect.com/science/article/B6V7X-4DXSRBX-1/2/0dccb17fc6b465c24c93fc5b902946a9.

Hua W, Bennett ER, and Letcher RJ. "Ozone treatment and the depletion of detectable pharmaceuticals and atrazine herbicide in drinking water sourced from the upper Detroit River, Ontario, Canada," *Wat Res* **2006**, *40*(12):2259-2266. http://www.sciencedirect.com/science/article/B6V73-4K5SSYK-2/2/cfa3037c1ca1ec970c6903412fcf53aa.

Hua WY, Bennett ER, Maio XS, Metcalfe CD, and Letcher RJ. "Seasonality effects on pharmaceuticals and s-triazine herbicides in wastewater effluent and surface water from the Canadian side of the upper Detroit River," *Environ Toxicol Chem* **2006**, *25*(9):2356-2365.

Huang CH, and Sedlak DL. "Analysis of estrogenic hormones in municipal wastewater effluent and surface water using enzyme-linked immunosorbent assay and gas chromatography/tandem mass spectrometry," *Environ Toxicol Chem* **2001**, *20*(1):133-139.

Huang H, and Sorial GA. "Perchlorate Remediation in Aquatic Systems by Zero Valent Iron," *Environ Eng Sci* **2007**, *24*(7):917-926. http://www.liebertonline.com/doi/abs/10.1089/ees.2006.0198.

Huang YW, Matthews JB, Fertuck KC, and Zacharewski TR. "Use of Xenopus laevis as a model for investigating in vitro and in vivo endocrine disruption in amphibians," *Environ Toxicol Chem* **2005**, *24*(8):2002-2009.

Hubbard ML. "Analysis of the Oregon Stakeholder Drug Take Back Public Policy Process to Reduce Pharmaceutical Pollution in Oregon's Water Resources," Oregon State University, Oceanic and Atmospheric Sciences, Corvallis, OR, 2007. 64 pp. http://hdl.handle.net/1957/6192.

Huber MM. "Elimination of pharmaceuticals during oxidative treatment of drinking water and wastewater: application of ozone and chlorine dioxide," Doctoral Dissertation, Swiss Federal Institute of Technology Zurich, Zurich, Switzerland, 2004. 187 pp. http://e-collection.ethbib.ethz.ch/eserv/eth:27680/eth-27680-02.pdf.

Huber MM, Canonica S, Park GY, and von Gunten U. "Oxidation of Pharmaceuticals during Ozonation and Advanced Oxidation Processes," *Environ Sci Technol* **2003**, *37*(5):1016-1024. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es025896h.

Huber MM, Gobel A, Joss A, Hermann N, Loffler D, McArdell CS, et al. "Oxidation of pharmaceuticals during ozonation of municipal wastewater effluents: A pilot study," *Environ Sci Technol* **2005**, *39*(11):4290-4299. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i11/abs/es048396s.html.

Huber MM, Korhonen S, Ternes TA, and von Gunten U. "Oxidation of pharmaceuticals during water treatment with chlorine dioxide," *Wat Res* **2005**, *39*(15):3607-3617. http://www.sciencedirect.com/science/article/B6V73-4GSC2DT-1/2/74b4690998fbea8679106e54b3ec0443.

Huber MM, Ternes TA, and von Gunten U. "Removal of estrogenic activity and formation of oxidation products during ozonation of 17 alpha-ethinylestradiol," *Environ Sci Technol* **2002**, *38*(19):5177-5186.

Huber R, Smith K, Delago A, Isaksson K, and Kravitz EA. "Serotonin and aggressive motivation in crustaceans: altering the decision to retreat," *Proc Nat Acad Sci* **1997**, *94*(11):5939-5942.

Huber S. "Einfluss der prozessfuhrung auf menge und zusammensetzung von proteinen und polysacchariden im ablauf von sequencing-batch-reaktoren," *Berichte aus der Wasserggute und Abfallwirtschaft, Technische Universitat Munchen* **1999**, *152*.

Huerta-Fontela M, Galceran MT, Martin-Alonso J, and Ventura F. "Occurrence of psychoactive stimulatory drugs in wastewaters in north-eastern Spain," *Sci Total Environ* **2008**, *397*(1-3):31-40. http://www.sciencedirect.com/science/article/B6V78-4SBHDHX-4/1/b424b4c8d9ba3fff606940f419304265.

Huerta-Fontela M, Galceran MT, and Ventura F. "Ultraperformance liquid chromatography-tandem mass spectrometry analysis of stimulatory drugs of abuse in wastewater and surface waters," *Anal Chem* **2007**, *79*(10):3821-3829.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17437334.

Huerta-Fontela M, Galceran MT, and Ventura F. "Stimulatory Drugs of Abuse in Surface Waters and Their Removal in a Conventional Drinking Water Treatment Plant," *Environ Sci Technol* **2008**, *In Press* http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es800768h.

Huggett DB, Benson WH, Chipman K, Cook JC, Gray LE, Kinter LB, et al. "Role of mammalian data in determining pharmaceutical responses in aquatic species," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams BG, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 5, 149-182.

Huggett DB, Brooks BW, Peterson B, Foran CM, and Schlenk D. "Toxicity of Select Beta Adrenergic Receptor-Blocking Pharmaceuticals (β-Blockers) on Aquatic Organisms," *Arch Environ Contam Toxicol* **2002**, *43*(2):229-235. http://dx.doi.org/10.1007/s00244-002-1182-7.

Huggett DB, Cook JC, Ericson JF, and Williams RT. "A Theoretical Model for Utilizing Mammalian Pharmacology and Safety Data to Prioritize Potential Impacts of Human Pharmaceuticals to Fish," *Human Ecolog Risk Assess* **2003**, *9*(7):1789-1799. http://www.sciencedirect.com/science/article/B6WRP-4FS735Y-K/2/5ee4a9a2ac1e1cd185c8dc306aa1ace1.

Huggett DB, Ericson JF, Cook JC, and Williams RT. "Plasma concentrations of human pharmaceuticals as predictors of pharmacological responses in fish," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 27, 373-386.

Huggett DB, Foran CM, Brooks BW, Weston J, Peterson B, Marsh KE, et al. "Comparison of in Vitro and in Vivo Bioassays for Estrogenicity in Effluent from North American Municipal Wastewater Facilities," *Toxicol Sci* **2003**, *72*(1):77-83. http://toxsci.oxfordjournals.org/cgi/content/abstract/72/1/77.

Huggett DB, Khan IA, Foran CM, and Schlenk D. "Determination of beta-adrenergic receptor blocking pharmaceuticals in United States wastewater effluent," *Environ Pollut* **2003**, *121*(2):199-205. http://www.sciencedirect.com/science/article/B6VB5-45TY562-D/1/bd828ac29430ebb872d67cebb5f96b2a.

Hughes EM, and Gallagher EP. "Effects of 17-[beta] estradiol and 4-nonylphenol on phase II electrophilic detoxification pathways in largemouth bass (Micropterus salmoides) liver," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2004**, *137*(3):237-247. http://www.sciencedirect.com/science/article/B6W89-4CG6PMW-2/2/2c30720d9bb84343c6150bc73982df3c.

Hugo ER, Brandebourg TD, Woo JG, Loftus J, Alexander JW, and Ben-Jonathan N. "Bisphenol A at Environmentally Relevant Doses Inhibits Adiponectin Release from Human Adipose Tissue Explants and Adipocytes," *Environ Health Perspect* **2008**, *In press* http://www.ehponline.org/docs/2008/11537/abstract.html.

Hühnerfuss H. "Complete list of publications," http://www.chemie.uni-hamburg.de/oc/hfuss/publications.html.

Hühnerfuss H, Biselli S, and Gatermann R. "Enantioselective analysis of polycyclic musks as a versatile tool for the understanding of environmental processes," in *The Handbook of Environmental*

Chemistry, Synthetic Musk Fragrances in the Environment, Rimkus G, Ed., Springer Verlag; Heidelberg, Germany, 2004, Part X, 213-231.

Huizar J. "Part I - Unintended Consequences: The Effects of Pharmaceuticals in the Water Supplies," *California Wat Reporter* **2000**, *11*:72-73.

Huizar J. "Part II - Pharmaceuticals in the Water Supplies: Regulations and Works-in-Progress," *California Wat Reporter* **2001**, *11*:95-97.

Huizar J. "Part III - Pharmaceuticals in the Water Supplies," *California Wat Reporter* **2001**, *11*:129-130.

Hummel D, Loffler D, Fink G, and Ternes TA. "Simultaneous Determination of Psychoactive Drugs and Their Metabolites in Aqueous Matrices by Liquid Chromatography Mass Spectrometry," *Environ Sci Technol* **2006**, *40*(23):7321-7328. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es061740w.

Hummel T, Mohammadian P, Marchl R, Kobal G, and Lotsch J. "Pain in the trigeminal system: irritation of the nasal mucosa using short- and long-lasting stimuli," *Internat J Psychophysiology* **2003**, *47*:147-158.

Humphreys EH, Janssen S, Heil A, Hiatt P, Solomon G, and Miller MD. "Outcomes of the California ban on pharmaceutical lindane: clinical and ecologic impacts," *Environ Health Perspect* **2008**, *116*(3):297-302. http://www.ncbi.nlm.nih.gov/pubmed/18335094.

Humphreys WG, and Unger SE. "Safety Assessment of Drug Metabolites: Characterization of Chemically Stable Metabolites," *Chem Res Toxicol* **2006**, *19*(12):1564-1569. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/tx6002547.

Hun T. "Water Quality: Studies indicate drugs in water may come from effluent discharges," *Wat Environ Technol* **1998**, *10*(7):17-22.

Hundt K, Martin D, Hammer E, Jonas U, Kindermann MK, and Schauer F. "Transformation of triclosan by Trametes versicolor and Pycnoporus cinnabarinus," *Appl Environ Microbiol* **2000**, *66*(9):4157-4160. http://www.ncbi.nlm.nih.gov/pubmed/10966448.

Hung C-Y, Huang Y-T, Huang H-H, and Hwang C-C. "Sulfamethazine and Sulfadimethoxine Separation Strategies Based on Molecularly Imprinted Adsorbents," *Anal Lett* **2007**, *40*(17):3232-3244. http://www.informaworld.com/10.1080/00032710701672707.

Hunot S, and Flavell RA. "Death of a monopoly?," Science 2001, 292(4 May):865-866.

Huo CX, and Hickey P. "EDC demonstration programme in the UK--Anglian Water's approach," *Environ Technol* **2007**, *28*(7):731-741.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17674646.

Huo S-M, Yang H, and Deng A-P. "Development and validation of a highly sensitive ELISA for the determination of pharmaceutical indomethacin in water samples," *Talanta* **2007**, *73*(2):380-386.

http://www.sciencedirect.com/science/article/B6THP-4NF4F0C-3/1/5e87c1727e627303131eb69444b8478d.

Huppert N, Wurtele M, and Hahn HH. "Determination of the plasticizer N-butylbenzenesulfonamide and the pharmaceutical Ibuprofen in wastewater using solid phase microextraction (SPME)," *Fres J Anal Chem* **1998**, *362*(6):529-536.

Hurle MA. "Changes in the expression of G protein-coupled receptor kinases and beta-arrestin 2 in rat brain during opioid tolerance and supersensitivity," *J Neurochem* **2001**, 77:486-492.

Huschek G, Hanse PD, Maurer H-H, Drengel D, and Kayser A. "Environmental risk assessment of medicinal products for human use according to European commission recommendations," *Environ Toxicol* **2004**, *19*(3):226-240.

http://www3.interscience.wiley.com/journal/108069085/abstract?CRETRY=1&SRETRY=0.

Huschek G, and Hansen PD. "Ecotoxicological classification of the Berlin river system using bioassays in respect to the European Water Framework Directive," *Environ Monit Assess* **2006**, *121*:15-31.

Hutchins SR, White MV, Hudson FM, and Fine DD. "Analysis of lagoon samples from different concentrated animal feeding operations for estrogens and estrogen conjugates," *Environ Sci Technol* **2007**, *41*(3):738-744.

Hutchinson T. "Small is useful in endocrine disrupter assessment—four key recommendations for aquatic invertebrate research," *Ecotoxicology* **2007**, *16*(1):231-238. http://dx.doi.org/10.1007/s10646-006-0107-z.

Hutchinson TH. "Reproductive and developmental effects of endocrine disrupters in invertebrates: in vitro and in vivo approaches," *Toxicol Lett* **2002**, *131*(1-2):75-81. http://www.sciencedirect.com/science/article/B6TCR-45CNC4S-2/2/31d1ece3f5d62dde15db34bb0fe31941.

Hutchinson TH. "Impacts of endocrine disrupters on fish development: opportunities for adapting OECD Test Guideline 210," *Environ Sci (Tokyo)* **2002**, *9*(6):439-450. http://sciencelinks.jp/j-east/article/200301/000020030102A0916022.php.

Hutchinson TH, Ankley GT, Segner H, and Tyler CR. "Screening and testing for endocrine disruption in fish - Biomarkers as "signposts," not "traffic lights," in risk assessment," *Environ Health Perspect* **2006**, *114*(S-1):106-114. http://www.ehponline.org/members/2005/8062/8062.html.

Hutchinson TH, Barrett S, Buzby M, Constable D, Hartmann A, Hayes E, et al. "A strategy to reduce the numbers of fish used in acute ecotoxicity testing of pharmaceuticals," *Environ Toxicol Chem* **2003**, *22*(12):3031-3036. http://etc.allenpress.com/entconline/?request=get-document&issn=0730-7268&volume=022&issue=12&page=3031.

Hutchinson TH, Brown R, Brugger KE, Campbell P, M., Holt M, Lange R, et al. "Ecological risk assessment of endocrine disruptors," *Environ Health Perspect* **2002**, *108*(11):1007-1014. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1240154.

Hutchinson TH, and Pickford DB. "Ecological risk assessment and testing for endocrine disruption in the aquatic environment," *Toxicology* **2002**, *181-182*:383-387. http://www.sciencedirect.com/science/article/B6TCN-46WW6MK-1/1/5818d42224c981eb290a263702c36432.

Hutchinson TH, Pounds NA, Hampel M, and Williams TD. "Life-cycle studies with marine copepods (tisbs battagliai) exposed to 20-hydroxyecdysone and diethylstilbestrol," *Environ Toxicol Chem* **1999**, *18*(12):2914-2920. http://dx.doi.org/10.1897%2F1551-5028%281999%29018%3C2914%3ALCSWMC%3E2.3.CO%3B2.

Hutchinson TH, Pounds NA, Hampel M, and Williams TD. "Impact of natural and synthetic steroids on the survival, development and reproduction of marine copepods (Tisbe battagliai)," *Sci Total Environ* **1999**, *233*(1-3):167-179. http://www.sciencedirect.com/science/article/B6V78-3X7V32R-J/1/e3de69542d15f30c97f79e6246a0cbdb.

Huys G, Gevers D, Temmerman R, Cnockaert M, Denys R, Rhodes G, et al. "Comparison of the Antimicrobial Tolerance of Oxytetracycline-Resistant Heterotrophic Bacteria Isolated from Hospital Sewage and Freshwater Fishfarm Water in Belgium," *Syst Appl Microbiol* **2001**, *24*(1):122-130. http://www.sciencedirect.com/science/article/B7GVX-4DS35DB-18/2/df76483d48d20d6a97cb0c2c727c687f.

Huys G, Rhodes G, McGann P, Denys R, Pickup R, Hiney M, et al. "Characterization of oxytetracycline-resistant heterotrophic bacteria originating from hospital and freshwater fishfarm environments in England and Ireland," *Syst Appl Microbiol* **2000**, *23*(4):599-606. http://www.ncbi.nlm.nih.gov/pubmed/11249032.

Hwang S, Lee D, Lee C, and Ahn I. "Oxidation of 17 alpha-ethinylestradiol with Mn(III) and product identification," *J Haz Mat* **2008**, *155*(1-2):334-341.

Hydromantis Inc., Minnow Environmental Inc., and University of Waterloo Dept. of Civil Engineering. "Review of the State of Knowledge of Municipal Effluent Science and Research: Review of Effluent Substances," June, 2005, pp. http://www.ccme.ca/assets/pdf/csr rev effluent substances.pdf.

Hyttel J. "Comparative pharmacology of selective serotonin re-uptake inhibitors (SSRIs)," *Nord J Psychiat* **1996**, 47:5-12.

ICON Consultants LTD. "Pollutants in urban waste water and sewage sludge," European Commission D-GE, London (for United Kingdom, Luxembourg: Office for Official Publications of the European Communities), 2001. http://www.environmental-center.com/articles/article1031/article1031.htm.

Ifelebuegu AO, Lester JN, Churchley J, and Cartmell E. "Removal of an endocrine disrupting chemical (17 alpha-ethinyloestradiol) from wastewater effluent by activated carbon adsorption: Effects of activated carbon type and competitive adsorption," *Environ Technol* **2006**, *27*(12):1343-1349.

IFT Foundation. "Antimicrobial resistance: Implications for the food system. An expert report," *Comp Rev Food Sci Food Safety* **2006**, *5*(3):71-137. http://www3.interscience.wiley.com/journal/118607165/abstract?CRETRY=1&SRETRY=0. Iftikhar A, and Amer M. "The safe and responsible disposal of unused controlled drugs," *British J Nursing* **2007**, *16*(21):1318-1322.

Iguchi T, Katsu Y, Urushitani H, Lange A, and Tyler CR. "Developmental reproductive effects of exposure to pharmaceutical steroids in the aquatic environment: Studies on mosquitofish (Gambusia affinis affinis), roach (Rutilus rutilus) and medaka (Oryzias latipes)," *J Mar Sci Technol-Taiwan* **2007**, *15*:29-36.

Ikeda M. "Multiple exposure to chemicals," *Regul Toxicol Pharmacol* **1988**, *8*(4):414-421. http://www.ncbi.nlm.nih.gov/pubmed/3222483.

Ikeda SR. "Calcium channels—Link locally, act globally," Science 2001, 294:318-319.

Ikehata K, El-Din MG, and Gochenour LN. "Health effects associated with wastewater treatment, disposal, and reuse," *Wat Environ Res* **2006**, *78*(10):2086-2096. http://www.ingentaconnect.com/content/wef/wer/2006/00000078/00000010/art00037/references;jsessi onid=2ienn49lh3wff.alice.

Ikehata K, El-Din MG, and Snyder SA. "Ozonation and Advanced Oxidation Treatment of Emerging Organic Pollutants in Water and Wastewater," *Ozone: Sci Eng* **2008**, *30*(1):21 - 26. http://www.informaworld.com/10.1080/01919510701728970.

Ikehata K, Naghashkar NJ, and Ei-Din MG. "Degradation of aqueous pharmaceuticals by ozonation and advanced oxidation processes: A review," *Ozone-Sci Eng* **2006**, *28*(6):353-414.

Ikunaka MApiniapiSesoccftpiC-aEJ, 9, 379-388. "A process in need is a process indeed: Scalable enantioselective synthesis of chiral compounds for the pharmaceutical industry," *Chemistry - A European J* **2003**, *9*:379-388.

Ileri R, Sengil IA, Kulac S, and Damar Y. "Treatment of mixed pharmaceutical industry and domestic wastewater by sequencing batch reactor," *J Environ Sci Health A Tox Hazard Subst Environ Eng* **2003**, *38*(10):2101-2111.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =14524665.

Illinois EPA. "Report on Pharmaceuticals and Personal Care Products in Illinois Drinking Water Bureau of Water, Illinois EPA, June 2008," Bureau of Water,, Illinois, June, 2008, pp. http://www.epa.state.il.us/water/pharmaceuticals-in-drinking-water.pdf.

Illinois-Indiana Sea Grant "Habitats and Ecosystems, Disposal of Unwanted Medicines: A Resource for Action in Your Community, unwantedmeds/updated Toolkit Materials," <u>http://www.iisgcp.org/unwantedmeds/</u>.

Inamori Y, Sugiura N, and Nakazawa M. "Developing the simulated aquatic microcosm for aquatic ecosystem and the impact assessment method for introducing microbial pharmaceuticals on the ecosystem using the model system," *Kasumigaura Suishitsu Joka Purojekuto Fezu 1 Kenkyu Seikashu Ibarakiken Chiiki Kesshugata Kyodo Kenkyu Jigyo Heisei 14nen* **2002**:41-45. http://sciencelinks.jp/j-east/display.php?id=000020032203A0647398.

Inanc B, Calli B, Alp K, Ciner F, Mertoglu B, and Ozturk I. "Toxicity assessment on combined biological treatment of pharmaceutical industry effluents," *Wat Sci Technol* **2002**, *45*(12):135-142. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12201095.

Inc. PSS. "Pharmaceutical Waste Destruction," pp. http://www.phaseparation.com/pdf/Pharma2page.pdf.

Inciardi JA, Surratt HL, Kurtz SP, and Cicero TJ. "Mechanisms of prescription drug diversion among drug-involved club- and street-based populations," *Pain Med* **2007**, *8*(2):171-183. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17305688.

Ingerslev F, and Halling-Sørensen B. "Biodegradability properties of sulphonamides in activated sludge," *Environ Toxicol Chem* **2000**, *19*(10):2467-2473.

Ingerslev F, and Halling-Sørensen B. "Biodegradability of metronidazole, olaqiondox, and tylosin, and formation of tylosin degradation products in aerobic soil/manure slurries," *Ecotoxicol Environ Safety* **2001**, *48*(3):311-320.

Ingerslev F, Torang L, Loke M-L, Halling-Sorensen B, and Nyholm N. "Primary biodegradation of veterinary antibiotics in aerobic and anaerobic surface water simulation systems," *Chemosphere* **2001**, *44*(4):865-872. http://www.sciencedirect.com/science/article/B6V74-43C5C63-1H/2/35f448f6067bb9014324d6396bf03250.

Ingerslev F, Vaclavik E, and Halling-Sorensen B. "Pharmaceuticals and personal care products: A source of endocrine disruption in the environment?," *Pure Appl Chem* **2003**, *75*(11-12):1881-1893. http://old.iupac.org/publications/pac/2003/pdf/7511x1881.pdf.

Ingrand V, Herry G, Beausse J, and de Roubin M-R. "Analysis of steroid hormones in effluents of wastewater treatment plants by liquid chromatoraphy-tandem mass spectrometry," *J Chromatogr A* **2003**, *1020*(1):99-104. http://www.sciencedirect.com/science/article/B6TG8-49BSC6W-1/2/7ae3eac15dd218385a6714dd31ddc32a.

Injac R, Kac J, Kreft S, and Strukelj B. "Determination of doxycycline in pharmaceuticals and human urine by micellar electrokinetic capillary chromatography," *Anal Bioanal Chem* **2007**, *387*(2):695-701. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17102968.

Inoue K, Kawaguchi M, Okada F, Yoshimura Y, and Nakazawa H. "Column-switching highperformance liquid chromatography electrospray mass spectrometry coupled with on-line of extraction for the determination of mono- and di-(2-ethylhexyl) phthalate in blood samples," *Anal Bioanal Chem* **2003**, *375*:527-533.

Institut Umwelt-Sicherheits-Energietechnik UMSICHT, Tuerk J, Ploeger J, Kiffmeyer TK, Schmidt KG, Schoeppe G, et al. "Removal of pharamaceuticals by oxidative treatment of toilet effluents from hospital wards," Poster Presentation, 2008. http://www.veu.de/13147-Dateien/Poster_WWI_040330.pdf.

Inui M, Adachi T, Takenaka S, Inui H, Nakazawa M, Ueda M, et al. "Effect of UV screens and preservatives on vitellogenin and choriogenin production in male medaka (Oryzias latipes)," *Toxicology* **2003**, *194*(1-2):43-50.

Ioannou PC, Rusakova NV, Andrikopoulou DA, Glynou KM, and Tzompanaki GM. "Spectrofluorimetric determination of anthranilic acid derivatives based on terbium sensitized fluorescence," *Analyst* **1998**, *123*:2839-2843.

Ippen H. "Nitro musk," Internat Arch Occupational Environ Health 1994, 66(4):283-285.

Irmak S, Erbatur O, and Akgerman A. "Degradation of 17[beta]-estradiol and bisphenol A in aqueous medium by using ozone and ozone/UV techniques," *J Hazardous Mat* **2005**, *126*(1-3):54-62. http://www.sciencedirect.com/science/article/B6TGF-4GTVYWW-1/2/89e762facb7132bec1578ff02242f88a.

Isacson D, and Olofsson C. "Drugs up in smoke: a study of caseated drugs in Sweden," *Pharm World Sci* **1999**, *21*(2):96-99. http://dx.doi.org/10.1023/A:1008626306770.

Ishibashi H, Hirano M, Matsumura N, Watanabe N, Takao Y, and Arizono K. "Reproductive effects and bioconcentration of 4-nonylphenol in medaka fish (Oryzias latipes)," *Chemosphere* **2006**, *65*(6):1019-1026. http://www.sciencedirect.com/science/article/B6V74-4JW7WNX-4/2/96afe1f61287208c6af53c7101f9e0c8.

Ishibashi H, Matsumura N, Hirano M, Matsuoka M, Shiratsuchi H, Ishibashi Y, et al. "Effects of triclosan on the early life stages and reproduction of medaka Oryzias latipes and induction of hepatic vitellogenin," *Aqua Toxicol* **2004**, *67*(2):167-179. http://www.sciencedirect.com/science/article/B6T4G-4BRP5JY-2/2/0d7dcbd629997914fa5e96776acbe3e4.

Ishikawa F, Shigeoka S, Nagashima M, Takahashi M, and Kamimura H. "Simultaneous determination of eleven dyes and their aluminum lakes in drugs," *J AOAC Internat* **2003**, *86*:215-221.

Ishiyama T, Shimadu T, Nudeshima C, Hoshi J, and Sasaki Y. "Simple and rapid determination of estrogens and bisphenol A in water samples by high-performance liquid chromatography with electrochemical detection," *Bunseki Kagaku* **2004**, *53*(5):411-417.

Isidori M, Lavorgna M, Nardelli A, and Parrella A. "Toxicity on crustaceans and endocrine disrupting activity on Saccharomyces cerevisiae of eight alkylphenols," *Chemosphere* **2006**, *64*(1):135-143. http://www.sciencedirect.com/science/article/B6V74-4HTCTCM-2/2/80c9ecfaf78eafe0c56fe2e49fe803ba.

Isidori M, Lavorgna M, Nardelli A, Parrella A, Previtera L, and Rubino M. "Ecotoxicity of naproxen and its phototransformation products," *Sci Total Environ* **2005**, *348*(1-3):93-101. http://www.sciencedirect.com/science/article/B6V78-4FNP2DY-5/2/3aaa1067ac2d258e9f5458e05ed7899b.

Isidori M, Lavorgna M, Nardelli A, Pascarella L, and Parrella A. "Toxic and genotoxic evaluation of six antibiotics on non-target organisms," *Sci Total Environ* **2005**, *346*(1-3):87-98.

http://www.sciencedirect.com/science/article/B6V78-4FC3S0W-2/2/17dfef8d90e90ff6e0a6be6987b03b7e.

Isidori M, Nardelli A, Parrella A, Pascarella L, and Previtera L. "A multispecies study to assess the toxic and genotoxic effect of pharmaceuticals: Furosemide and its photoproduct," *Chemosphere* **2006**, *63*(5):785-793. http://www.sciencedirect.com/science/article/B6V74-4H8FPMK-5/2/4389862735a07483a08cbf2ed4080350.

Isidori M, Nardelli A, Pascarella L, Rubino M, and Parrella A. "Toxic and genotoxic impact of fibrates and their photoproducts on non-target organisms," *Environ Int* **2007**, *33*(5):635-641. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17320957.

Islinger M, Willimski D, Volkl A, and Braunbeck T. "Effects of 17α-ethinylestradiol on the expression of three estrogen-responsive genes and cellular ultrastructure of liver and testes in male zebrafish," *Aqua Toxicol* **2003**, *62*(2):85-103. http://www.sciencedirect.com/science/article/B6T4G-45SH8MV-1/2/c75f29ce849159502176d569dd0867d0.

Islinger M, Yuan H, Voelkl A, and Braunbeck T. "Measurement of vitellogenin gene expression by RT-PCR as a tool to identify endocrine disruption in Japanese medaka (Oryzias latipes)," *Biomarkers* **2002**, *7*(1):80-93.

Isobe T, Serizawa S, Horiguchi T, Shibata Y, Managaki S, Takada H, et al. "Horizontal distribution of steroid estrogens in surface sediments in Tokyo Bay," *Environ Pollut* **2006**, *144*(2):632-638. http://www.sciencedirect.com/science/article/B6VB5-4JG5FMX-3/2/6f2c3abdc6d221d700bd06205643540f.

Isobe T, Shiraishi H, Yasuda M, Shinoda A, Suzuki H, and Morita M. "Determination of estrogens and their conjugates in water using solid-phase extraction followed by liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2003**, *984*(2):195-202. http://www.sciencedirect.com/science/article/B6TG8-47DM9N0-D/2/13ddb523d4be055fd596f8b5b60bebfc.

Isomaa B, and Lilius H. "The urgent need for in vitro tests in ecotoxicology," *Toxicol in Vitro* **1995**, *9*(6):821-825.

Iversen A, Kuhn I, Franklin A, and Mollby R. "High prevalence of vancomycin-resistant enterococci in Swedish sewage," *Appl Environ Microbiol* **2002**, *68*(6):2838-2842.

Iwane T, Urase T, and Yamamoto K. "Possible impact of treated wastewater discharge on incidence of antibiotic resistant bacteria in river water," *Wat Sci Technol* **2001**, *43*:91-99.

J.T. "Birth control for breakfast, anyone? - Brief Article," *Sci News* **1999**, *156*:365. http://findarticles.com/p/articles/mi_m1200/is_23_156/ai_58360884.

Jackson J, and Sutton R. "Sources of endocrine-disrupting chemicals in urban wastewater, Oakland, CA," *Science of The Total Environment* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4T53HH0-5/2/7672c715f0a6c8ae2064c1b93a3b2ab4.

Jackson WC, Kuckuck F, Edwards BS, Mammoli A, Gallegos CM, Lopez GP, et al. "Mixing small volumes for continuous high-throughput flow cytometry: Performance of a mixing Y and peristaltic sample delivery," *Cytometry* **2002**, *47*:183-191.

Jacobs HE, and Haarhoff J. "Prioritisation of parameters influencing residential water use and wastewater flow," *J Wat Supply Res Technol-Aqua* **2007**, *56*(8):594-514. http://services.inist.fr/cgi-bin/public/views_doc?file=/applis/services/topic/data/00/19/64/04/35400017430068/35400017430068 0030.art&modele=eng/a view91.htm.

Jacobs MN, Nolan GT, and Hood SR. "Lignans, bacteriocides and organochlorine compounds activate the human pregnane X receptor (PXR)," *Toxicol Appl Pharmacol* **2005**, *209*(2):123-133. http://www.sciencedirect.com/science/article/B6WXH-4G4MMD0-7/2/3e642b368e69c456e6f8d2960e1b677a.

Jacobsen AM, and Halling-Sørensen B. "Multi-component analysis of tetracyclines, sulfonamides and tylosin in swine manure by liquid chromatography-tandem mass spectrometry "*Anal Bioanal Chem* **2006**, *384*(5):1164-1174.

Jacobsen AM, Halling-Sorensen B, Ingerslev F, and Honore Hansen S. "Simultaneous extraction of tetracycline, macrolide and sulfonamide antibiotics from agricultural soils using pressurised liquid extraction, followed by solid-phase extraction and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2004**, *1038*(1-2):157-170. http://www.sciencedirect.com/science/article/B6TG8-4C82C13-1/2/7f2117d26a410a7851760daeb79c95e9.

Jacobsen A-M, Lorenzen A, Chapman R, and Topp E. "Persistence of testosterone and 17β -estradiol in soils receiving swine manure or municipal biosolids," *J Environ Qual* **2005**, *34*(3):861-871.

Jacobsen BN, Kjersgaard D, Winther-Nielsen M, and Gustavson K. "Combined chemical analyses and biomonitoring at Avedoere wastewater treatment plant in 2002," *Wat Sci Technol* **2004**, *50*:37-43.

Jacobsen CS, Sørensen SR, Juhler RK, Brüsch W, and Aamand J. "Emerging contaminants in Danish groundwater," *Geological Survey of Denmark and Greenland Ministry of the Environment* **2005**, *49*:1-43.

Jacobson BJ, Rock AR, Cohn MS, and Litovitz T. "Accidental ingestions of oral prescription drugs: a multicenter survey," *Am J Public Health* **1989**, *79*(7):853-856. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1349665.

Jacoby M. "Fast separations for chiral drugs - New methods based solely on mass spec offer rapid analysis of enantiomeric mixtures," *Chem Eng News* **2001**, (21 May):68-69.

Jaeger HM, Shinbrot T, and Umbanhowar PB. "Does the granular matter?," *Proc Nat Acad Sci* 2000, *97*(24):12959-12960. http://www.pnas.org/cgi/content/abstract/97/24/12959.

Jain R, Bhargava M, and Sharma N. "Electrochemical studies on a pharmaceutical azo dye: Tartrazine," *Indus Engineering Chem Res* **2003**, *42*(2):243-247.

Jakobsen L, Sandvang D, Hansen LH, Bagger-Skjøt L, Westh H, Jørgensen C, et al. "Characterisation, dissemination and persistence of gentamicin resistant Escherichia coli from a Danish university hospital to the waste water environment," *Environ Internat* **2008**, *34*(1):108-115. http://www.sciencedirect.com/science/article/B6V7X-4PK8MMK-1/1/d6313f7704c5e1049c5201997a6ec79b.

James MO. "Overview of in vitro metabolism of drugs by aquatic species," *Vet Hum Toxicol* **1986**, 28(Supplement 1):2-8.

James MO. "Conjugation of organic pollutants in aquatic species," *Environ Health Perspect* **1987**, 71:97-103. http://www.ncbi.nlm.nih.gov/pubmed/3297669.

James MO, and Boyle SM. "Cytochromes P450 in crustacea," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **1998**, *121*:157-172. http://www.ingentaconnect.com/content/els/07428413/1998/00000121/00000001/art10036 http://dx.doi.org/10.1016/S0742-8413(98)10036-1.

Janer G, and Porte C. "Sex steroids and potential mechanisms of non-genomic endocrine disruption in invertebrates," *Ecotoxicology* **2007**, *16*(1):145-160. http://dx.doi.org/10.1007/s10646-006-0110-4.

Jang Y-C, Lee C, Yoon O-S, and Kim H. "Medical waste management in Korea," *J Environ Manage* **2006**, *80*(2):107-115. http://www.sciencedirect.com/science/article/B6WJ7-4HS3C29-4/1/000f8fdf013092904c3947a9d938c905.

Jank M, Koser H, Lucking F, Martienssen M, and Wittchen S. "Decolorization and degradation of Erioglaucine (acid blue 9) dye in wastewater," *Environ Technol* **1998**, *19*:741-747.

Janusz A, Kirkbride KP, Scott TL, Naidu R, Perkins MV, and Megharaj M. "Microbial degradation of illicit drugs, their precursors, and manufacturing by-products: implications for clandestine drug laboratory investigation and environmental assessment," *Forensic Science International* **2003**, *134*(1):62-71. http://www.sciencedirect.com/science/article/B6T6W-48JK3G9-1/2/9c15167db637b630babe1d21e9419787.

Jarnheimer PA, Ottoson J, Lindberg R, Stenstrom TA, Johansson M, Tysklind M, et al. "Fluoroquinolone antibiotics in a hospital sewage line; Occurrence, distribution and impact on bacterial resistance," *Scandinavian J Infectious Dis* **2004**, *36*(10):752-755.

Jaser W, Severin GF, Jutting U, Juttner I, Schramm KW, and Kettrup A. "Effects of 17 α ethinylestradiol on the reproduction of the cladoceran species Ceriodaphnia reticulata and Sida crystalline," *Environ Internat* 2003, 28(7):633-638. http://www.ingentaconnect.com/content/els/01604120/2003/00000028/00000007/art00101;jsessionid= 7tqbto2puudq2.alice?format=print http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V7X-475JY5G-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=cd0bedf06c2b1a3e21769b095add0f08.

Jasim SY, Hua W, Letcher R, Schwietzer L, Lemieux F, Mazloum S, et al. "Endocrine disrupters chemicals (EDCs) presence in water supplies and effect of treatment process on removal – A Great Lakes Region Concern," 2004 WQTC-AWWA, Philadelphia, PA, November 2-6, 2003.

Jasim SY, Irabelli A, Yang P, Ahmed S, and Schweitzer L. "Presence of pharmaceuticals and pesticides in Detroit River water and the effect of ozone on removal," *Ozone-Sci Eng* **2006**, *28*:415-423.

Jasim SY, Mazloum S, Grimm D, and Boyd GR. "Evaluation of the presence of endocrine disrupters chemicals (EDCs) in Detroit River and the effect of water treatment processes on their removal," 16th World Congress-International Ozone Association, Las Vegas, NV, August 31 – September 5, 2003.

Jaworek A, Balachandran W, Krupa A, Kulon J, and Lackowski M. "Wet Electroscrubbers for State of the Art Gas Cleaning," *Environ Sci Technol* **2006**, *40*(20):6197-6207. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0605927.

Jeannot R, Sabik H, Sauvard E, Dagnac T, and Dohrendorf K. "Determination of endocrine-disrupting compounds in environmental samples using gas and liquid chromatography with mass spectrometry," *J Chromatogr A* **2002**, 974(1-2):143-159. http://www.sciencedirect.com/science/article/B6TG8-46SNF0S-F/2/c9488399f858220589c5083be498e6b2.

Jedd G, and Chua NH. "Visualization of peroxisomes in living plant cells reveals acto-myosindependent cytoplasmic streaming and peroxisome budding," *Plant Cell Physiol* **2002**, *43*:384-392.

Jelicic I, and Ahel M. "Occurrence of phenazone analgesics and caffeine in Croatian municipal wastewaters," *Fres Environ Bull* **2003**, *12*:46-50.

Jenkins MB, Endale DM, Schomberg HH, and Sharpe RR. "Fecal bacteria and sex hormones in soil and runoff from cropped watersheds amended with poultry litter," *Sci Total Environ* **2006**, *358*(1-3):164-177. http://www.sciencedirect.com/science/article/B6V78-4G94HN4-1/2/d8a1f498134a666291b0d6b909c3ba1d.

Jenkins RL, Wilson EM, Angus RA, Howell WM, and Kirk M. "Androstenedione and progesterone in the sediment of a river receiving paper mill effluent," *Toxicol Sci* **2003**, *73*(1):53-59.

Jensen J. "Veterinary medicines and soil quality: the Danish situation as an example," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 16, 282-302.

Jensen J, Krogh PH, and Sverdrup LE. "Effects of the antibacterial agents tiamulin, olanquindox and metronidazole and the anthelmintic ivermectin on the soil invertebrate species Folsomia fimetaria (Collembola) and Enchytraeus crypticus (Enchytraeidae)," *Chemosphere* **2003**, *50*(3):437-443. http://www.sciencedirect.com/science/article/B6V74-4783HH4-2/2/e094932bb393755378536284e4d2cbd8.

Jensen KM, Makynen EA, Kahl MD, and Ankley GT. "Effects of the feedlot contaminant 17α -trenbolone on reproductive endocrinology of the fathead minnow," *Environ Sci Technol* **2006**, *40*(9):3112-3117.

Jensen LB, Baloda S, Boye M, and Aarestrup FM. "Antimicrobial resistance among Pseudomonas spp. and the Bacillus cereus group isolated from Danish agricultural soil," *Environ Int* **2001**, *26*(7-8):581-

587. http://www.sciencedirect.com/science/article/B6V7X-43GCN71-H/2/9151322076896a5f4f6449fd286f349d.

Jeon H-K, Chung Y, and Ryu J-C. "Simultaneous determination of benzophenone-type UV filters in water and soil by gas chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1131*(1-2):192-202. http://www.sciencedirect.com/science/article/B6TG8-4KKFP9J-4/2/7082aab8770d82ec870b81f967f87035.

Jessica D, Robert M, Frédéric S, Arnaud B, Delphine L, Jean-Pierre T, et al. "Do sewage treatment plant discharges substantially impair fish reproduction in polluted rivers?," *Sci Total Environ* **2007**, *372*(2-3):497-514. http://www.sciencedirect.com/science/article/B6V78-4MBT1NN-1/1/e31495d6989a033b1be4958073c8e94c.

Jesson J, Pocock R, and Wilson K. "Reducing medicines waste in the community," *Primary Health Care Res Develop* **2005**, *6*(2):117-124. http://journals.cambridge.org/action/displayAbstract;jsessionid=051A8AA0B91EF0C4FB25BE1D1A 2E6590.tomcat1?fromPage=online&aid=528140#.

Jia X, Shao B, Wu Y, Yang Y, and Zhang J. "Simultaneous determination of tetracylines and quinolones antibiotics in egg by ultra-performance liquid chromatrography-electrospray tandem mass spectrometry," *J AOAC Internat* **2008**, *91*(2):461-468. http://www.atypon-link.com/AOAC/doi/abs/10.5555/jaoi.91.2.461.

Jiang GQ, and Zhang BB. "PI 3-kinase and its up- and down-stream modulators as potential targets for the treatment of type II diabetes," *FRONTIERS IN BIOSCIENCE* **2002**, 7:D904-D917.

Jiang JQ, Yin Q, Pearce P, and Zhou JL. "A survey of endocrine disrupting chemicals in sewage and a preliminary treatment trial," *Wat Sci Technol* **2005**, *52*(8):1-7.

Jiang JQ, Yin Q, Zhou JL, and Pearce P. "Occurrence and treatment trials of endocrine disrupting chemicals (EDCs) in wastewaters," *Chemosphere* **2005**, *61*(4):544-550. http://www.sciencedirect.com/science/article/B6V74-4FXNRCR-4/2/f5b2e19f617c9c6c658e305a482a8f8f.

Jiang S, Chen Y, and Zhou Q. "Influence of alkyl sulfates on waste activated sludge fermentation at ambient temperature," *J Hazardous Mat* **2007**, *148*(1-2):110-115. http://www.sciencedirect.com/science/article/B6TGF-4N2D301-2/2/8bba41147cb279df7a43018c0321888e.

Jiao S, Zheng S, Yin D, Wang L, and Chen L. "Aqueous photolysis of tetracycline and toxicity of photolytic products to luminescent bacteria," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4SY6Y9R-2/1/526dd75d3644f996cee213984e39c21a.

Jiménez-Gonzales C. "Life cycle assessment in pharmaceutical applications," Doctoral Dissertation, North Carolina State University, 2000. 278 pp. http://www.worldcat.org/wcpa/top3mset/48999173.

Jiménez-Gonzales C, Curzons AD, Constable DJC, and Cunningham VL. "Cradle-to-Gate Life Cycle Inventory and Assessment of Pharmaceutical Compounds," *Int J LCA* **2004**, *9*(2):114. http://www.scientificjournals.com/sj/lca/abstract/ArtikelId/6224.

Jiménez-González C, Constable D, Curzons A, and Cunningham V. "Developing GSK's green technology guidance: methodology for case-scenario comparison of technologies," *Clean Technol Environ Policy* **2002**, *4*(1):44-53. http://dx.doi.org/10.1007/s10098-001-0134-7.

Jiménez-González C, Curzons AD, Constable DJC, Overcash MR, and Cunningham VL. "How do you select the "greenest" technology? Development of guidance for the pharmaceutical industry," *Clean Technol Environ Policy* **2001**, *3*(1):35-41. http://dx.doi.org/10.1007/PL00011310.

Jin S, Yang F, Liao T, Hui Y, and Xu Y. "Seasonal variations of estrogenic compounds and their estrogenicities in influent and effluent from a municipal sewage treatment plant in China," *Environ Toxicol Chem* **2008**, *27*(1):146-153.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18092861.

Jin X, Hu JY, Tint ML, Ong SL, Biryulin Y, and Polotskaya G. "Estrogenic compounds removal by fullerene-containing membranes," *Desalination* **2007**, *214*(1-3):83-90.

http://translate.google.com/translate?hl=en&sl=ko&u=http://www.cheric.org/research/tech/periodicals/vol_view.php%3Fseq%3D708784%26start%3D0%26number%3D8%26jourid%3D71%26vol%3D214%26num%3D1-

3%26totalcount%3D30&sa=X&oi=translate&resnum=1&ct=result&prev=/search%3Fq%3DEstrogeni c%2Bcompounds%2Bremoval%2Bby%2Bfullerene-

containing%2Bmembranes%26hl%3Den%26rls%3DGGLG,GGLG:2006-12,GGLG:en.

Jindal A, Kocherginskaya S, Mehboob A, Robert M, Mackie RI, Rasking L, et al. "Antimicrobial use and resistance in swine waste treatment systems," *Appl Environ Microbiol* **2006**, 72(12):7813-7820.

Jjemba PK. "The effect of chloroquine, quinacrine, and metronidazole on both soybean plants and soil microbiota," *Chemosphere* **2002**, *46*(7):1019-1025. http://www.sciencedirect.com/science/article/B6V74-451NM0N-7/2/611fc50695af4027651344cd68e6c206.

Jjemba PK. "The potential impact of veterinary and human therapeutic agents in manure and biosolids on plants grown on arable land: a review," *Agric Ecosystems Environ* **2002**, *93*(1-3):267-278. http://www.sciencedirect.com/science/article/B6T3Y-44RNJ84-3/2/354a655d1b0804d2a292927a48888181.

Jjemba PK. "Excretion and ecotoxicity of pharmaceutical and personal care products in the environment," *Ecotoxicol Environ Safety* **2006**, *63*(1):113-130. http://www.sciencedirect.com/science/article/B6WDM-4FB93T5-2/2/4d45d128a0025230b86438f9be5409aa.

Jobling S, Casey D, Rodgers-Gray T, Oehlmann J, Schulte-Oehlmann U, Pawlowski S, et al. "Comparative responses of molluscs and fish to environmental estrogens and an estrogenic effluent," *Aqua Toxicol* **2004**, *66*(2):207-222. http://www.sciencedirect.com/science/article/B6T4G-4BRBFGM-C/2/603783be0bc73e5ccaa95fe02a73e754.

Jobling S, Casey D, Rodgers-Gray T, Oehlmann J, Schulte-Oehlmann U, Pawlowski S, et al. "Erratum to "Comparative responses of molluscs and fish to environmental estrogens and an estrogenic effluent": [Aquatic Toxicology 65 (2003) 205-220]," *Aqua Toxicol* **2004**, *66*(2):205. http://www.sciencedirect.com/science/article/B6T4G-4BRBFGM-B/2/a76bb13dbb97f2a780d48fe8ca4a6845.

Jobling S, Nolan M, Tyler CR, Brighty G, and Sumpter JP. "Widespread Sexual Disruption in Wild Fish," *Environ Sci Technol* **1998**, *32*(17):2498-2506. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es9710870.

Jobling S, Sheahan D, Osborne JA, Matthiessen P, and Sumpter JP. "Inhibition of testicular growth in rainbow trout (oncorhynchus mykiss) exposed to estrogenic alkylphenolic chemicals," *Environ Toxicol Chem* **1996**, *15*(2):194-202. http://dx.doi.org/10.1897%2F1551-5028%281996%29015%3C0194%3AIOTGIR%3E2.3.CO%3B2.

Jobling S, and Tyler CR. "Endocrine disruption in wild freshwater fish," *Pure Appl Chem* **2003**, *75*(11-12):2219-2234.

Jobling S, and Tyler CR. "Introduction: The ecological relevance of chemically induced endocrine disruption in wildlife," *Environ Health Perspect* **2006**, *114 Suppl 1*:7-8. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16818239.

Jobling S, Williams R, Johnson A, Taylor A, Gross-Sorokin M, Nolan M, et al. "Predicted exposures to steroid estrogens in U.K. rivers correlate with widespread sexual disruption in wild fish populations," *Environ Health Perspect* **2006**, *114 Suppl 1*:32-39. http://www.ehponline.org/docs/2005/8050/abstract.html.

Johansson N, and Mollby R. "Antibiotics in the environment," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 5, 72-82. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Johnson A, and Carey B. "Quality Assurance Project Plan: Screening for Pharmaceuticals in Wastewater Treatment Plant Effluents, Groundwater, and Surface Water in the Sequim-Dungeness Area," Washington State Department of Ecology Environmental Assessment Program, Olympia, Washington, 2004. http://www.ecy.wa.gov/pubs/0403104.pdf.

Johnson A, Carey B, and Golding S. "Results of a screening analysis for pharmaceuticals in wastewater treatment plant effluents, wells, and creeks in the Sequium-Dungeness area," Washington State Department of Ecology Environmental Assessment Program, Olympia, Washington, 2004. http://www.ecy.wa.gov/pubs/0403051.pdf and http://www.ecy.wa.gov/biblio/0403051.html.

Johnson AC, Aerni HR, Gerritsen A, Gibert M, Giger W, Hylland K, et al. "Comparing steroid estrogen, and nonylphenol content across a range of European sewage plants with different treatment and management practices," *Wat Res* **2005**, *39*(1):47-58.

http://www.sciencedirect.com/science/article/B6V73-4DTKX0B-2/2/b27a76ae6ad44a13d00f65b0746182b7.

Johnson AC, Belfroid A, and Di Corcia A. "Estimating steroid oestrogen inputs into activated sludge treatment works and observations on their removal from the effluent," *Sci Total Environ* **2000**, *256*(2-3):163-173. http://www.sciencedirect.com/science/article/B6V78-41J698K-8/2/b98807cefc6f44d15b23fcc5c95049ce.

Johnson AC, Jurgens MD, Williams RJ, Kummerer K, Kortenkamp A, and Sumpter JP. "Do cytotoxic chemotherapy drugs discharged into rivers pose a risk to the environment and human health? An overview and UK case study," *J Hydrol* **2008**, *348*(1-2):167-175. http://www.sciencedirect.com/science/article/B6V6C-4PT1SHC-2/2/c0e704d3d99d4122d2ce2d75028539f9.

Johnson AC, Keller V, Williams RJ, and Young A. "A practical demonstration in modelling diclofenac and propranolol river water concentrations using a GIS hydrology model in a rural UK catchment," *Environ Pollut* **2007**, *146*(1):155-165. http://www.sciencedirect.com/science/article/B6VB5-4KMYG4N-4/2/a2d6c5be3d0f086a5e8a619046c27e65.

Johnson AC, and Sumpter JP. "Removal of endocrine-disrupting chemicals in activated sludge treatment works," *Environ Sci Technol* **2001**, *35*(24):4697-4703. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2001/35/i24/abs/es010171j.html.

Johnson AC, and Williams RJ. "A model to estimate influent and effluent concentrations of estradiol, estrone, and ethinylestradiol at sewage treatment works," *Environ Sci Technol* **2004**, *38*(13):3649-3658. http://www.ncbi.nlm.nih.gov/pubmed/15296317 http://cat.inist.fr/?aModele=afficheN&cpsidt=15918741.

Johnson AC, Williams RJ, and Matthiessen P. "The potential steroid hormone contribution of farm animals to freshwaters, the United Kingdom as a case study," *Sci Total Environ* **2006**, *362*(1-3):166-178. http://www.sciencedirect.com/science/article/B6V78-4GSBGM2-7/2/e33e436ba1af692a18794a18bb62d526.

Johnson AC, Williams RJ, Simpson P, and Kanda R. "What difference might sewage treatment performance make to endocrine disruption in rivers?," *Environ Pollut* **2007**, *147*(1):194-202. http://www.sciencedirect.com/science/article/B6VB5-4M2WP90-2/2/8ef2884f83e5a040ab3dd78e02d2c953.

Johnson AC, Williams RJ, and Ulahannan T. "Comment on 'Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening," *Environ Sci Technol* **1999**, *33*(2):369-370. http://pubs.acs.org/cgi-bin/article.cgi/esthag/1999/33/i02/pdf/es9809197.pdf.

Johnson DJ. "Risk assessment of selective serotonin reuptake inhibitors: comparing methods in tiered environmental risk assessment," Masters Dissertation, University of Guelph, Guelph, Ontario, Canada, 2004. 112 pp.

Johnson DJ, Sanderson H, Brain RA, Wilson CJ, Bestari KT, and Solomon KR. "Exposure assessment and microcosm fate of selected selective serotonin reuptake inhibitors," *Reg Toxicol Pharmacol* 2005,

42(3):313-323. http://www.sciencedirect.com/science/article/B6WPT-4GMS9GR-1/2/3fe12c236a2fd606badaf1dca31bc008.

Johnson DJ, Sanderson H, Brain RA, Wilson CJ, and Solomon KR. "Toxicity and hazard of selective serotonin reuptake inhibitor antidepressants fluoxetine, fluvoxamine, and sertraline to algae," *Ecotoxicol Environ Safety* **2007**, *67*(1):128-139. http://www.sciencedirect.com/science/article/B6WDM-4K42DN1-4/2/05a00f106d802a077c17567a7ed112ae.

Johnson K. "Drug labs poisoning forests," USA Today, 30 January 2001.

Johnson N, Revenga C, and Echeverria J. "Managing water for people and nature," *Science* **2001**, *292*:1071-1072.

Johnston JJ, Savarie PJ, Primus TM, Eisemann JC, Hurley JC, and Kohler KJ. "Risk assessment of an acetaminophen baiting program for chemical control of brown tree snakes on Guam: Evaluation of baits, snake residues, and potential primary and secondary hazards," *Environ Sci Technol* **2002**, *36*(17):3827-3833.

Jolibois B, and Guerbet M. "Evaluation of industrial, hospital and domestic wastewater genotoxicity with the Salmonella fluctuation test and the SOS chromotest," *Mutation Research/Genetic Toxicology and Environ Mutagenesis* **2005**, *565*(2):151-162. http://www.sciencedirect.com/science/article/B6T2D-4F3FF7P-1/2/ed186e7300f619dd30c791cc9402ceb4.

Jolibois B, and Guerbet M. "Hospital wastewater genotoxicity," *Annals of Occupational Hygiene* **2006**, *50*(2):189-196.

Jolibois B, and Guerbet M. "Simplified protocol for evaluating the genotoxic risk of hospital wastewater," *Environ Toxicol* **2006**, *21*(2):141-146. <u>http://www.ncbi.nlm.nih.gov/pubmed/16528689</u>.

Jolibois B, Guerbet M, and Vassal S. "Glutaraldehyde in hospital wastewater," *Arch Environ Contam Toxicol* **2002**, *42*(2):137-144.

Jolibois B, Guerbet M, and Vassal S. "Detection of hospital wastewater genotoxicity with the SOS chromotest and Ames fluctuation test," *Chemosphere* **2003**, *51*(6):539-543. http://www.sciencedirect.com/science/article/B6V74-47XWH5H-2/2/e813dc93a1320134f0ec69684e944f0f.

Jonas W, Lin Y, and Tortella F. "Neuroprotection from glutamate toxicity with ultra-low dose glutamate. ," *Neuropharmacol Neurotoxicol* **2001**, *12*(2):335-339. http://www.ncbi.nlm.nih.gov/pubmed/11209946.

Jonas WB. "The future of hormesis: what is the clinical relevance to hormesis?," *Crit Rev Toxicol* **2001**, *31*(4-5):655-658. http://www.ncbi.nlm.nih.gov/pubmed/11504192.

Jonas WB. "A critique of "the scientific foundations of hormesis"," *Crit Rev Toxicol* **2001**, *31*(4-5):625-629. http://www.ncbi.nlm.nih.gov/pubmed/11504187.

Jones AD, Bruland GL, Agrawal SG, and Vasudevan D. "Factors influencing the sorption of oxytetracycline to soils," *Environ Toxicol Chem* **2005**, *24*(4):761-770.

Jones JG, Gardener S, Simon BM, and Pickup RW. "Antibiotic resistant bacteria in Windermere and two remote upland tarns in the English Lake District," *J Appl Microbiol* **1986**, *60*(5):443-453. http://dx.doi.org/10.1111/j.1365-2672.1986.tb05090.x.

Jones KC, and de Voogt P. "Persistent organic pollutants (POPs): state of the science," *Environ Pollut* **1999**, *100*(1-3):209-221.

Jones OA, Lester JN, and Voulvoulis N. "Pharmaceuticals: a threat to drinking water?," *Trends Biotechnol* **2005**, *23*(4):163-167. http://www.ncbi.nlm.nih.gov/pubmed/15780706.

Jones OA, Voulvoulis N, and Lester JN. "Potential ecological and human health risks associated with the presence of pharmaceutically active compounds in the aquatic environment," *Crit Rev Toxicol* **2004**, *34*(4):335-350.

Jones OAH, Green PG, Voulvoulis N, and Lester JN. "Questioning the Excessive Use of Advanced Treatment to Remove Organic Micropollutants from Wastewater," *Environ Sci Technol* **2007**, *41*(14):5085-5089. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0628248.

Jones OAH, Voulvoulis N, and Lester JN. "Human pharmaceuticals in the aquatic environment - A review," *Environ Technol* **2001**, *22*(12):1383-1394. http://www.ncbi.nlm.nih.gov/pubmed/11873874.

Jones OAH, Voulvoulis N, and Lester JN. "Aquatic environmental assessment of the top 25 English prescription pharmaceuticals," *Wat Res* **2002**, *36*(20):5013-5022. http://www.sciencedirect.com/science/article/B6V73-462BFGJ-4/2/200a235e70145c9c7d111883fe639bad.

Jones OAH, Voulvoulis N, and Lester JN. "Analytical method development for the simultaneous determination of five human pharmaceuticals in water and wastewater samples by gas chromatography-mass spectrometry," *Chromatographia* **2003**, *58*:471-477.

Jones OAH, Voulvoulis N, and Lester JN. "Human pharmaceuticals in wastewater treatment processes," *Crit Rev Environ Sci Technol* **2005**, *35*(4):401-427. http://www.ingentaconnect.com/content/tandf/best/2005/00000035/00000004/art00003.

Jones OAH, Voulvoulis N, and Lester JN. "Partitioning behavior of five pharmaceutical compounds to activated sludge and river sediment," *Arch Environ Contam Toxicol* **2006**, *50*:297-305.

Jones OAH, Voulvoulis N, and Lester JN. "Fate and occurrence of pharmaceuticals in the water cycle – Ecotoxicity of pharamaceuticals," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 3.3, 387-424. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Jones OAH, Voulvoulis N, and Lester JN. "The occurrence and removal of selected pharmaceutical compounds in a sewage treatment works utilising activated sludge treatment," *Environ Pollut* **2007**, *145*(3):738-744. http://www.sciencedirect.com/science/article/B6VB5-4KKFPFW-1/1/af578b981fac104ce6b78f016cff81f0.

Jones RN, Pfaller MA, Marshall SA, Hollis RJ, and Wilke WW. "Antimicrobial activity of 12 broadspectrum agents tested against 270 nosocomial blood stream infection isolates caused by non-Enteric Gram-negative bacilli: Occurrence of resistance, molecular epidemiology, and screening for metalloenzymes," *Diagnostic Microbiol Infectious Disease* **1997**, *29*(3):187-192. http://www.sciencedirect.com/science/article/B6T60-3S125MB-9/2/87e236b5b2b299ee92633dbce4577a42.

Jones S. "Assessing the effectiveness of one-stop dispensing," *Hospital Pharmacist* **2002**, *9*:237-239. http://www.pjonline.com/pdf/hp/200209/hp_200209_onestop.pdf.

Jones-Lepp TL. "Chemical markers of human waste contamination: analysis of urobilin and pharmaceuticals in source waters," *J Environ Monit* **2006**, *8*:472–478.

Jones-Lepp TL, Alvarez DA, Petty JD, and Huckins JN. "Polar Organic Chemical Integrative Sampling and Liquid Chromatography–Electrospray/Ion-Trap Mass Spectrometry for Assessing Selected Prescription and Illicit Drugs in Treated Sewage Effluents," *Arch Environ Contam Toxicol* **2004**, *47*(4):427-439. http://dx.doi.org/10.1007/s00244-004-3146-6.

Jones-Lepp TL, Alvarez DA, Petty JD, Osemwengie LI, and Daughton CG. "Analytical Chemistry for Mapping Trends of Pharmaceutical and Personal Care Product Pollution from Personal Use: Some Current Research and Future Needs," 10th Annual Symposium on Handling of Environmental and Biological Samples, Wiesbaden, Germany, 2001, 10 September.

Jones-Lepp TL, Gerlach CL, and Cooter EJ. "Pilot field study tests power of analytical methods for measuring suspected endocrine disrupting compounds," *Trends Anal Chem* **2000**, *19*:1-6.

Jones-Lepp TL, and Stevens R. "Pharmaceuticals and personal care products in biosolids/sewage sludge: the interface between analytical chemistry and regulation," *Anal Bioanal Chem* **2007**, *387*(4):1173-1183.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17131110.

Jordan A, and Frank H. "Trifluoroacetate in the environment. Evidence for sources other than HFC/HCFCs," *Environ Sci Technol* **1999**, *33*:522-527.

Jørgensen SE, and Halling-Sørensen B. "Drugs in the environment," *Chemosphere* **2000**, *40*(7):691-699. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-2X/1/a842f7fdfad4a33bc552213ef97b0067.

Jørgensen SE, Lützhøft HC, and Halling-Sørensen B. "Development of a model for environmental risk assessment of growth promoters," *Ecolog Modelling* **1998**, *107*(1):63-72.

Jos A, Repetto G, Rios JC, Hazen MJ, Molero ML, del Peso A, et al. "Ecotoxicological evaluation of carbamazepine using six different model systems with eighteen endpoints," *Toxicol in Vitro* **2003**, *17*(5-6):525-532. http://www.sciencedirect.com/science/article/B6TCP-49H6XR8-B/2/8337586a01b57aa6ad270af340db8f6b.

Joss A. "Erratum to "Removal of pharmaceuticals and fragrances in biological wastewater treatment" [Water Res. 39, 3139-3152]," *Wat Res* **2005**, *39*(18):4585-1696. http://www.sciencedirect.com/science/article/B6V73-4HC76XJ-6/2/ef133021b8cb787a0ec80f7c227ac060.

Joss A, Andersen H, Ternes T, Richle PR, and Siegrist H. "Removal of estrogens in municipal wastewater treatment under aerobic and anaerobic conditions: Consequences for plant optimization," *Environ Sci Technol* **2004**, *38*(11):3047-3055. http://cat.inist.fr/?aModele=afficheN&cpsidt=15797202.

Joss A, Keller E, Alder AC, Gobel A, McArdell CS, Ternes T, et al. "Removal of pharmaceuticals and fragrances in biological wastewater treatment," *Wat Res* **2005**, *39*(14):3139-3152. http://www.sciencedirect.com/science/article/B6V73-4GPW6FN-1/2/bb4b3d855fad03d57341b5002d621a19.

Joss A, Siegrist H, and Ternes T. "Indirect potable water reuse is taking place. Micropollutants require integrating water management at the source, of wastewater and drinking water," Priority compounds and water reuse, Workshop 2, 6th IWA Conference on Wastewater Reclamation and Reuse for Sustainability (WRRS 2007), Antwerp, Belgium, 9-12 October, 2007, 8. http://www.wrrs2007.org/content/user/File/Workshop%202%20PRIORITY%20POLLUTANTS%20e xtended%20Abstract.pdf.

Joss A, Zabczynski S, Gobel A, Hoffmann B, Loffler D, McArdell CS, et al. "Biological degradation of pharmaceuticals in municipal wastewater treatment: Proposing a classification scheme," *Wat Res* **2006**, *40*(8):1686-1696. http://www.sciencedirect.com/science/article/B6V73-4JRVFRK-2/2/4e9ea8b8048babd89e57d0ee8577103a.

Joukhadar C, Derendorf H, and Muller M. "Microdialysis - A novel tool for clinical studies of antiinfective agents," *European J Clinical Pharmacol* **2001**, *57*(211-219).

Joyeux M. "Drug residues and health risks from water," *Environment, Risques & Sante* **2006**, *5*(4):301-306. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/03/resume.md?type=text.html.

Juan-García A, Font G, and Picó Y. "Simultaneous determination of different classes of antibiotics in fish and livestock by CE-MS," *ELECTROPHORESIS* **2007**, *28*(22):4180-4191. http://dx.doi.org/10.1002/elps.200700383.

Jukosky JA, Watzin MC, and Leiter JC. "The effects of environmentally relevant mixtures of estrogens on Japanese medaka (Oryzias latipes) reproduction," *Aqua Toxicol* **2008**, *86*(2):323-331. http://www.sciencedirect.com/science/article/B6T4G-4R5VYM5-1/2/9b5d1ccc1598a35a1a604bf0308f8696.

Jun LJ, Jeong JB, Huh M-D, Chung J-K, Choi D-L, Lee C-H, et al. "Detection of tetracyclineresistance determinants by multiplex polymerase chain reaction in Edwardsiella tarda isolated from fish farms in Korea," *Aquaculture* **2004**, *240*(1-4):89-100. Jung J, Kim Y, Kim J, Jeong D-H, and Choi K. "Environmental levels of ultraviolet light potentiate the toxicity of sulfonamide antibiotics in Daphnia magna," *Ecotoxicology* **2008**, *17*(1):37-45. http://dx.doi.org/10.1007/s10646-007-0174-9.

Juni RL, and McElveen JC, Jr. "Environmental law applications of hormesis concepts: risk assessment and cost-benefit implications," *J Appl Toxicol* **2000**, *20*(2):149-155. http://www.ncbi.nlm.nih.gov/pubmed/10715614.

Junker LM, and Hay AG. "Effects of triclosan incorporation into ABS plastic on biofilm communities," *J Antimicrob Chemo* **2004**, *53*(6):989-996.

Junker T, Alexy R, Knacker T, and Kummerer K. "Biodegradability of 14C-Labeled Antibiotics in a Modified Laboratory Scale Sewage Treatment Plant at Environmentally Relevant Concentrations," *Environ Sci Technol* **2006**, *40*(1):318-324. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es051321j.

Jurgens MD, Holthaus KIE, Johnson AC, Smith JJL, Hetheridge M, and Williams RJ. "The potential for estradiol and ethinylestradiol degradation in English rivers," *Environ Toxicol Chem* **2002**, *21*(3):480-488.

Juszkiewicz T. "Residues of chemical compounds in animal food products under conditions of intensification of agriculture and chemization of environment," *Zeszyty problemowe postepow nauk rolnichzych [In Polish]* **1981**, *233*:97-125.

Jux U, Baginski RM, Arnold HG, Kronke M, and Seng PN. "Detection of pharmaceutical contaminations of river, pond, and tap water from Cologne (Germany) and surroundings," *Internat J Hygiene Environ Health* **2002**, *205*(5):393-398.

Kaatz GW, Moudgal VV, Seo SM, Hansen JB, and Kristiansen JE. "Phenylpiperidine selective serotonin reuptake inhibitors interfere with multidrug efflux pump activity in Staphylococcus aureus," *Internat J Antimicrobial Agents* **2003**, *22*(3):254-261. http://www.sciencedirect.com/science/article/B6T7H-49CT1K2-K/2/d7d8f196de4053cbbfadc69c8d9883d2.

Kadowaki T, Wheelock CE, Adachi T, Kudo T, Okamoto S, Tanaka N, et al. "Identification of Endocrine Disruptor Biodegradation by Integration of Structure–activity Relationship with Pathway Analysis," *Environ Sci Technol* **2007**, *41*(23):7997-8003. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es062751s.

Käfferlein HU, and Angerer J. "Trends in the musk xylene concentrations in plasma samples from the general population from 1992/1993 to 1998 and the relevance of dermal uptake," *Internat Arch Occupational Environ Health* **2001**, *74*(7):470-476.

Kafferlein HU, Goen T, and Angerer J. "Musk xylene: analysis, occurrence, kinetics, and toxicology," *Crit Rev Toxicol* **1998**, *28*(5):431-476.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =9793747.

Kahle M, Buerge IJ, Hauser A, Muller MD, and Poiger T. "Azole Fungicides: Occurrence and Fate in Wastewater and Surface Waters," *Environ Sci Technol* **2008**, *In press* http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es8009309.

Kahle M, and Stamm C. "Sorption of the veterinary antimicrobial sulfathiazole to organic materials of different origin," *Environ Sci Technol* **2007**, *41*(1):132-138.

Kahle M, and Stamm C. "Time and pH-dependent sorption of the veterinary antimicrobial sulfathiazole to clay minerals and ferrihydrite," *Chemosphere* **2007**, *68*(7):1224-1231. http://www.sciencedirect.com/science/article/B6V74-4N7RD1K-1/1/584a57e1601564b8776b444728917dd3.

Kaiser AE, Gottwald AM, Wiersch CS, Maier WA, and Seitz HM. "Spermidine metabolism in parasitic protozoa - a comparison to the situation in prokaryotes, viruses, plants and fungi," *Folia Parasitologica* **2003**, *50*:3-18.

Kaiser B, Eagan PD, and Shaner H. "Solutions to health care waste: Life-cycle thinking and "green" purchasing," *Environ Health Perspect* **2001**, *109*(3):205-207.

Kaiser J. "Endocrine disrupters: Panel Cautiously Confirms Low-Dose Effects," *Science* **2000**, *290*(5492):695-697. http://www.sciencemag.org/cgi/content/full/290/5492/695?ck=nck.

Kaiser KL. "Correlations of Vibrio fischeri bacteria test data with bioassay data for other organisms," *Environ Health Perspect* **1998**, *106 Suppl* 2:583-591. http://www.ncbi.nlm.nih.gov/pubmed/9599706?dopt=Citation.

Kaj L, Schlabach M, Andersson J, Cousins AP, Schmidbauer N, and Brorström-Lundén E. "Siloxanes in the Nordic Environment," 2005, 93 pp. http://www.ust.is/ness/docs/Siloxane-publication2005.pdf.

Kajitvichyanukul P, and Suntronvipart N. "Evaluation of biodegradability and oxidation degree of hospital wastewater using photo-Fenton process as the pretreatment method," *J Haz Mat* **2006**, *138*(2):384-391.

Kalbfus W, and Kopf W. "Erste Ansätze zur ökotoxikologischen Bewertung von Pharmaka in Oberflächengewässern (First attempts for the ecotoxicological assessment of drugs in surface waters)(Ger.)," *Fachtagung Bayerisches Landesamt für Wasserwirtschaft* **1997**, *55*.

Kalbfus W, and Kopf W. "First attempts for the ecotoxicological assessment of drugs in surface waters (Erste Ansätze zur ökotoxikologischen Bewertung von Pharmaka in Oberflächengewässern)," Proceedings of the 51st Meeting of the Bavarian Ministry of Water Economy, 51st Fachtagung Bayerisches Landesamt für Wasserwirtschaft, Munich, Germany, 1997.

Kaleta A, Ferdig M, and Buchberger WS. "Semiquantitative determination of residues of amphetamine in sewage sludge samples," *J Separation Sci* **2006**, *29*(11):1662-1666.

Kallaos J, Wheeler K, Wong C, and Zahller M. "Pharmaceuticals in Wastewater Streams: Disposal Practices and Policy Options in Santa Barbara," Masters Dissertation, Donald Bren School of Environmental Science & Management, Santa Barbara, CA, 2007. 129 pp. http://www.bren.ucsb.edu/research/documents/PharmaceuticalsFinalReport.pdf. Kallenborn R, Gatermann R, Nygard T, Knutzen J, and Schlabach M. "Synthetic musks in Norwegian marine fish samples collected in the vicinity of densely populated areas," *Fres Environ Bull* **2001**, *10*(11):832-842.

Kallenborn R, Gatermann R, Planting S, Rimkus GG, Lund M, Schlabach M, et al. "Gas chromatographic determination of synthetic musk compounds in Norwegian air samples," *J Chromatogr A* **1999**, *846*(1-2):295-306. http://www.sciencedirect.com/science/article/B6TG8-3WRB9F6-18/2/61904d47ed4da300d52010c055b064fe.

Kallenborn R, Gatermann R, and Rimkus GG. "Synthetic musks in environmental samples: indicator compounds with relevant properties for environmental monitoring," *J Environ Monit* **1999**, *1*(4):N70-N74.

Kallivretaki E, Eggen R, Neuhauss S, Alberti M, Kausch U, and Segner H. "Aromatase in zebrafish: A potential target for endocrine disrupting chemicals," *Mar Environ Res* **2006**, *62*(Supplement 1):S187-S190. http://www.sciencedirect.com/science/article/B6V7H-4JNF06T-7/1/0819ebe2c033212ea1dc419cd5ef2ee5.

Kalsch W. "Biodegradation of the iodinated X-ray contrast media diatrizoate and iopromide," *Sci Total Environ* **1999**, *225*(1-2):143-153. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-G/2/80f69674365579399b4e66e2d8cc44c3.

Kalter H. "Teratology in the 20th century: Environmental causes of congenital malformations in humans and how they were established," *Neurotoxicol Teratol* **2003**, *25*(2):131-282. http://www.sciencedirect.com/science/article/B6T9X-495MWD1-4/1/c0f6f631fdc48af913b1dd2835c9cd12.

Kamiya T, Yamauchi T, Hirotsuji J, and Fujita M. "Ozone-based decomposition of main endocrine disruption chemicals in sewage effluent," *Ozone-Sci Eng* **2005**, *27*(5):389-395.

Kampa E, Vidaurre R, and Laaser C. "State-of-art review of policy instruments to limit the discharge of pharmaceutical products into European waters," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 46 pp. http://www.knappe-eu.org/fichiers/54-D3.1%20State%20of%20Art%20Policy%20instrument.pdf.

Kan CA, and Meijer GAL. "The risk of contamination of food with toxic substances present in animal feed," *Animal Feed Sci Technol* **2007**, *133*(1-2):84-108. http://www.sciencedirect.com/science/article/B6T42-4KWTFD8-1/2/3684454bdb4cbc1b39eed3ca38aec033.

Kanda R, and Churchley J. "Removal of endocrine disrupting compounds during conventional wastewater treatment," *Environ Technol* **2008**, *29*(3):315-323. http://www.informaworld.com/smpp/content~content=a792949752~db=all~jumptype=rss.

Kanda R, Griffin P, James HA, and Fothergill J. "Pharmaceutical and personal care products in sewage treatment works," *J Environ Monit* **2003**, *5*(5):823-830. http://www.rsc.org/Publishing/Journals/EM/article.asp?doi=b306355k. Kang IJ, Yokota H, Oshima Y, Tsuruda Y, Yamaguchi T, Maeda M, et al. "Effect of 17beta-estradiol on the Reproduction of Japanese Medaka (Oryzias latipes)," *Chemosphere* **2002**, *47*(1):71-80. http://www.ncbi.nlm.nih.gov/pubmed/11996138.

Kang S-I, Kang S-Y, and Hur H-G. "Identification of fungal metabolites of anticonvulsant drug carbamazepine," *Appl Microbiol Biotechnol* **2008**, *79*(4):663-669. http://dx.doi.org/10.1007/s00253-008-1459-5.

Kaniou S, Pitarakis K, Barlagianni I, and Poulios I. "Photocatalytic oxidation of sulfamethazine," *Chemosphere* **2005**, *60*(3):372-380. http://www.sciencedirect.com/science/article/B6V74-4F65K3D-6/2/d6fd1b8d3ffa4760ec6de88559fa9903.

Kannan K, Reiner JL, Yun SH, Perrotta EE, Tao L, Johnson-Restrepo B, et al. "Polycyclic musk compounds in higher trophic level aquatic organisms and humans from the United States," *Chemosphere* **2005**, *61*(5):693-700. http://www.sciencedirect.com/science/article/B6V74-4G1R3KX-D/2/5cc78c39cd5d8a0485958fd7129be5fa.

Kantiani L, Farré M, Asperger D, Rubio F, González S, de Alda M-JL, et al. "Triclosan and methyltriclosan monitoring study in the northeast of Spain using a magnetic particle enzyme immunoassay and confirmatory analysis by gas-chromatography-mass spectrometry," *J Hydrol* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V6C-4T1945M-1/1/97d3de0028b931a6ce30a7d8affed2ed.

Kaplan LA, Newbold JD, Van Horn DJ, Dow CL, Aufdenkampe AK, and Jackson JK. "Organic matter transport in New York City drinking-water-supply watersheds," *J North Am Benthological Soc* **2006**, *25*(4):912-927.

Karch AM, and Karch FE. "When It's Time to Clean Out the Medicine Cabinet: Tell your patients that leftover drugs are rarely safe," *Am J Nursing* **2002**, *102*(2):23. http://www.ajnonline.com/pt/re/ajn/abstract.00000446-200202000-00009.htm;jsessionid=LXLFY5W2hPgjZ4wFyGTsG1vkMrLTwLMSYJ9XnqlTHl2mVK2c2Wh5!116 7962659!181195628!8091!-1.

Karim MM, Jeon CW, Lee HS, Alam SM, Lee SH, Choi JH, et al. "Simultaneous determination of acetylsalicylic acid and caffeine in pharmaceutical formulation by first derivative synchronous fluorimetric method," *J Fluorescence* **2006**, *16*:713-721.

Karpouzas DG, and Singh BK. "Microbial Degradation of Organophosphorus Xenobiotics: Metabolic Pathways and Molecular Basis," *Advances in Microbial Physiology* **2006**, *51*:119-225.

Karpova T. "Aqueous photocatalytic oxidation of steroid estrogens," Doctoral Dissertation, Lappeenranta University of Technology, Lappeenranta, Finland, 2007. 136 pp.

Karthikeyan KG, and Meyer MT. "Occurrence of antibiotics in wastewater treatment facilities in Wisconsin, USA," *Sci Total Environ* **2006**, *361*(1-3):196-207. http://www.sciencedirect.com/science/article/B6V78-4GTW8Y0-2/2/f2d11da72a87a7831b32aa1c02daf749. Kashiwada S, Ishikawa H, Miyamoto N, Ohnishi Y, and Magara Y. "Fish test for endocrine-disruption and estimation of water quality of Japanese rivers," *Wat Res* **2002**, *36*(8):2161-2166. http://www.sciencedirect.com/science/article/B6V73-45PTPHM-J/1/e1cc907c1097c2b110346d1bd240ddf9.

Kashiwada S, Kameshiro M, Tatsuta H, Sugaya Y, Kullman SW, Hinton DE, et al. "Estrogenic modulation of CYP3A38, CYP3A40, and CYP19 in mature male medaka (Oryzias latipes)," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2007**, *145*(3):370-378.

Kasichayanula S, House JD, Wang T, and Gu X. "Simultaneous analysis of insect repellent DEET, sunscreen oxybenzone and five relevant metabolites by reversed-phase HPLC with UV detection: Application to an in vivo study in a piglet model," *J Chromatogr B: Biomed Sci Applications* **2005**, *822*(1-2):271-277. http://www.sciencedirect.com/science/article/B6X0P-4GHRC50-6/2/4860226216f79e9b7abad81e78f04f81.

Kasichayanula S, House JD, Wang T, and Gu X. "Percutaneous characterization of the insect repellent DEET and the sunscreen oxybenzone from topical skin application," *Toxicol Appl Pharmacol* **2007**, *223*(2):187-194. http://www.sciencedirect.com/science/article/B6WXH-4NWMNJP-1/1/3a2dda67037b775b4a9cfc933a884152.

Kasper SC, Mattiuz EL, Swanson SP, Chiu JA, Johnson JT, and Garner CO. "Determination of olanzapine in human breast milk by high-performance liquid chromatography with electrochemical detection," *J Chromatogr B: Biomed Sci Applications* **1999**, 726(1-2):203-209. http://www.sciencedirect.com/science/article/B6TG9-3W90G2B-T/2/b2c8a10c438af603aec3fe8712fb3cbb.

Kasprzyk-Hordern B, Dabrowska A, Vieno N, Kronberg L, and Nawrocki J. "Occurrence of Acidic Pharmaceuticals in the Warta River in Poland," *Chemia analityczna* **2008**, *53*(2):289-303. http://services.inist.fr/cgibin/public/views_doc?file=/applis/services/topic/data/00/00/16/56/35400019599274/35400019599274 0100.art&modele=eng/a_view91.htm.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Multi-residue method for the determination of basic/neutral pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatography-positive electrospray ionisation tandem mass spectrometry," *J Chromatogr A* **2007**, *1161*(1-2):132-145. http://www.sciencedirect.com/science/article/B6TG8-4NVH7WF-D/2/bfa42d1c770640e86233cf08cae3af66.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "The effect of signal suppression and mobile phase composition on the simultaneous analysis of multiple classes of acidic/neutral pharmaceuticals and personal care products in surface water by solid-phase extraction and ultra performance liquid chromatography-negative electrospray tandem mass spectrometry," *Talanta* **2008**, *74*(5):1299-1312. http://www.sciencedirect.com/science/article/B6THP-4PKPGP0-1/2/109e3dc43f27f7fa7029411fae940482.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Multiresidue methods for the analysis of pharmaceuticals, personal care products and illicit drugs in surface water and wastewater by solid-phase extraction and ultra performance liquid chromatography-electrospray tandem mass spectrometry," *Anal Bioanal Chem* **2008**, *391*(4):1293-1308.

http://www.ingentaconnect.com/content/klu/216/2008/00000391/0000004/00001854;jsessionid=4f62 deho34esr.alexandra?format=print.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "The occurrence of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs in surface water in South Wales, UK," *Wat Res* **2008**, *42*(13):3498-3518. http://www.sciencedirect.com/science/article/B6V73-4SGD4NF-2/1/14969a26cc3a36c803298f117f8ea150.

Katsanis SH, Javitt G, and Hudson K. "A Case Study of Personalized Medicine," *Science* **2008**, *320*:53-54. www.sciencemag.org http://www.sciencemag.org/cgi/reprint/320/5872/53.pdf.

Katsu Y, Lange A, Urushitani H, Ichikawa R, Paull GC, Cahill LL, et al. "Functional associations between two estrogen receptors, environmental estrogens, and sexual disruption in the roach (rutilus rutilus)," *Environ Sci Technol* **2007**, *41*(9):3368-3374.

Katz B, and Griffin D. "Using chemical and microbiological indicators to track the impacts from the land application of treated municipal wastewater and other sources on groundwater quality in a karstic springs basin," *Environ Geol* **2007**, http://dx.doi.org/10.1007/s00254-007-1033-y.

Kaufman M, Smolinske S, and Keswick D. "Assessing poisoning risks related to storage of household hazardous materials: using a focus group to improve a survey questionnaire," *Environmental Health: A Global Access Science Source* **2005**, *4*(1):16. http://www.ehjournal.net/content/4/1/16.

Kavlock RJ. "Overview of endocrine disruptor research activity in the United States," *Chemosphere* **1999**, *39*(8):1227-1236. http://www.sciencedirect.com/science/article/B6V74-3XDS2NF-2/1/81d1cb4e687e6517715328abb51723a7.

Kawaguchi M, Sakui N, Okanouchi N, Ito R, Saito K, Izumi S-i, et al. "Stir bar sorptive extraction with in situ derivatization and thermal desorption-gas chromatography-mass spectrometry for measurement of phenolic xenoestrogens in human urine samples," *J Chromatogr B: Biomed Sci Applications* **2005**, *820*(1):49-57. http://www.sciencedirect.com/science/article/B6X0P-4G05MDT-5/2/a6544d24984eed9b3f74d9e39cc485f5.

Kawanishi M, Takamura-Enya T, Ermawati R, Shimohara C, Sakamoto M, Matsukawa K, et al. "Detection of genistein as an estrogenic contaminant of river water in Osaka," *Environ Sci Technol* **2004**, *38*(23):6424-6429.

Kay P, Blackwell PA, and Boxall ABA. "Fate of veterinary antibiotics in a macroporous tile drained clay soil," *Environ Toxicol Chem* **2004**, *23*(5):1136-1144.

Kay P, Blackwell PA, and Boxall ABA. "A lysimeter experiment to investigate the leaching of veterinary antibiotics through a clay soil and comparison with field data," *Environ Pollut* **2005**, *134*(2):333-341. http://www.sciencedirect.com/science/article/B6VB5-4DFT3P2-5/2/e19639d668a7fc0c664f0a0661481f45.

Kay P, Blackwell PA, and Boxall ABA. "Column studies to investigate the fate of veterinary antibiotics in clay soils following slurry application to agricultural land," *Chemosphere* 2005,

60(4):497-507. http://www.sciencedirect.com/science/article/B6V74-4FJGW38-5/2/7581884e0b1a27d82e30249add3eec9f.

Kay P, Blackwell PA, and Boxall ABA. "Transport of veterinary antibiotics in overland flow following the application of slurry to arable land," *Chemosphere* **2005**, *59*(7):951-959. http://www.sciencedirect.com/science/article/B6V74-4F6F65J-4/2/886db51ef6ebd29e6d215ebaed91ed48.

Kaza M, Nalecz-Jawecki G, and Sawicki J. "The toxicity of selected pharmaceuticals to the aquatic plant Lemna minor," *Fres Environ Bull* **2007**, *16*(5):524-531.

Kazuki K. "Function and directivity required for container and packaging for the medical supply. Container and packaging of the medical supply considering the disposal," *Pharm Monthly* **2003**, *45*(11):2007-2012. http://sciencelinks.jp/j-east/article/200401/000020040103A0734712.php.

Ke JX, Zhuang WQ, Gin KYH, Reinhard M, Hoon LT, and Tay JH. "Characterization of estrogendegrading bacteria isolated from an artificial sandy aquifer with ultrafiltered secondary effluent as the medium," *Appl Microbiol Biotech* **2007**, *75*(5):1163-1171.

Keenan HE, Sakultantimetha A, and Bangkedphol S. "Environmental fate and partition co-efficient of oestrogenic compounds in sewage treatment process," *Environ Res* **2008**, *106*(3):313-318. http://www.sciencedirect.com/science/article/B6WDS-4R11Y33-1/1/3c34123b21e790746228208f051e53f9.

Keil F. "Invoking the Precautionary Principle: An Integrated Strategy to Reduce the Occurrence of Pharmaceuticals in the Water Cycle," Environmental Risk Assessment of Human and Veterinary Medicines, Hotel Palace, Berlin, Germany, 26 September, 2007, 24 Slides. http://www.start-project.de/downloads/ERA_of_Med_Berlin_2007_Keil.pdf.

Keith LH, Jones-Lepp TL, and Needham LL, Eds., "Analysis of environmental endocine disruptors," American Chemical Society, Washington, DC, 2000, pp.

Kelch WJ, and Lee JS. "Antibiotic Resistance Patterns of Gram-Negative Bacteria Isolated from Environmental Sources36:450–6.," *Appl Environ Microbiol* **1978**, *36*:450-456. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=727777.

Keller VDJ, Rees HG, Fox KK, and Whelan MJ. "A new generic approach for estimating the concentrations of down-the-drain chemicals at catchment and national scale," *Environ Pollut* **2007**, *148*(1):334-342. http://www.sciencedirect.com/science/article/B6VB5-4MWXTHY-3/2/141a80aafe6d6b3cef85bbbb85f2a383.

Kelly LA, Taylor MA, and Wooldridge MJA. "Estimating the-predicted environmental concentration of the residues of veterinary medicines: Should uncertainty and variability be ignored?," *Risk Anal* **2003**, *23*(3):489-496.

Kemper N. "Veterinary antibiotics in the aquatic and terrestrial environment," *Ecolog Indicators* **2008**, 8(1):1-13. http://www.sciencedirect.com/science/article/B6W87-4P77G9X-1/2/4c49c3163f23f48c28e2b5c199502979.

Kemper N, Färber H, Skutlarek D, and Krieter J. "Analysis of antibiotic residues in liquid manure and leachate of dairy farms in Northern Germany," *Agricultural Water Management* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6T3X-4SV6PG0-1/1/a4f316a13ecfa6d62e18c1c6ae8fa5bd.

Kennedy DG, Cannavan A, and McCracken RJ. "Regulatory problems caused by contamination, a frequently overlooked cause of veterinary drug residues," *J Chromatogr A* **2000**, 882(1-2):37-52. http://www.sciencedirect.com/science/article/B6TG8-40F1PGM-6/2/c14dcf589ef72e152ff9c18adb4287da.

Kennedy LA, and Tsuchihashi R. "Is water reuse sustainable? Factors affecting its sustainability," *Arabian J Sci Engineer* **2005**, *30*(2C):3-15.

Kepner J. "Triclosan hazards...continued: trade group misleads on common antibacterial agent," *Pesticides and You* **2004**, *24*(4):9-11.

Kester GB, Brobst RB, Carpenter A, Chaney RL, Rubin AB, Schoof RA, et al. "Risk characterization, assessment, and management of organic pollutants in beneficially used residual products," *J Environ Qual* **2005**, *34*:80-90.

Kevan PG. "Pollinators as bioindicators of the state of the environment: species, activity and diversity," *Agri Ecosystems Environ* **1999**, *74*(1-3):373-393. http://www.sciencedirect.com/science/article/B6T3Y-3X6JG7B-N/1/85bf2ffa81caeefcca990d19e43a0941.

Kevekordes S, Grahl K, Zaulig A, and Dunkelberg H. "Nitro musk compounds – genotoxic activity – genotoxicity testing of nitro musks with the sos-chromotest and the sister-chromatid exchange test," *Environ Sci Pollut Res* **1996**, *3*(4):189-192.

Kevekordes S, Mersch-Sundermann V, Diez M, Bolten C, and Dunkelberg H. "Genotoxicity of polycyclic musk fragrances in the sister-chromatid exchange test," *Anticancer Res* **1998**, *18*:449-452.

Key PB, Hoguet J, Reed LA, Chung KW, and Fulton MH. "Effects of the statin antihyperlipidemic agent simvastatin on grass shrimp, Palaemonetes pugio," *Environmental Toxicology* **2008**, *23*(2):153-160. http://dx.doi.org/10.1002/tox.20318.

Khan B, Lee LS, and Sassman SA. "Degradation of Synthetic Androgens 17 α - and 17 β -Trenbolone and Trendione in Agricultural Soils," *Environ Sci Technol* **2008**, *42*(10):3570-3574. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702690p.

Khan S, Wintgens T, Sherman P, Zaricky J, and Schafer A. "A performance comparison of individual and combined treatment modules for water recycling," *Environ Progress* **2005**, *24*:383-391.

Khan SJ. "Occurrence, behaviour and fate of pharmaceutical residues in sewage treatment," Doctoral Dissertation, University of New South Wales, New South Wales, Australia, 2002. pp.

Khan SJ, and Gerrard LE. "Stakeholder communications for successful water reuse operations," *Desalination* **2006**, *187*(1-3):191-202. http://www.sciencedirect.com/science/article/B6TFX-4J444DP-R/2/69ddfcb1786bb18314713f74bd75a7ef.

Khan SJ, and Ongerth JE. "Estimation of pharmaceutical residues in primary and secondary sewage sludge based on quantities of use and fugacity modelling," *Wat Sci Technol* **2002**, *46*(3):105-113. http://www.ncbi.nlm.nih.gov/pubmed/12227595.

Khan SJ, and Ongerth JE. "Modelling of pharmaceutical residues in Australian sewage by quantities of use and fugacity calculations," *Chemosphere* **2004**, *54*(3):355-367. http://www.sciencedirect.com/science/article/B6V74-49JX6WF-3/2/ee9b11b1a00bc9b58a87c88c73f69506.

Khan SJ, Roser DJ, Davies CM, Peters GM, Stuetz RM, Tucker R, et al. "Chemical contaminants in feedlot wastes: Concentrations, effects and attenuation," *Environ Internat* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V7X-4R8PNFJ-1/1/fac56237e25ef5179e584acb9e36a63f.

Khan SJ, Wintgens T, Sherman P, Zaricky J, and Schafer AI. "Removal of hormones and pharmaceuticals in the advanced water recycling demonstration plant in Queensland, Australia," *Wat Sci Technol* **2004**, *50*(5):15-22.

Khan U, and Nicell JA. "Horseradish peroxidase-catalysed oxidation of aqueous natural and synthetic oestrogens," *J Chem Technol Biotechnol* **2007**, *82*(9):818-830. http://dx.doi.org/10.1002/jctb.1746.

Khanal SK, Xie B, Thompson ML, Sung S, Ong SK, and vanLeeuwen J. "Fate, Transport, and Biodegradation of Natural Estrogens in the Environment and Engineered Systems," *Environ Sci Technol* **2006**, *40*(21):6537-6546. http://pubs3.acs.org/acs/iournals/doilookup?in_doi=10_1021/as0607739

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0607739.

Khetan SK, and Collins TJ. "Human Pharmaceuticals in the Aquatic Environment: A Challenge to Green Chemistry," *Chem Rev* **2007**, *107*(6):2319-2364. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/cr020441w.

Kibbey TCG, Paruchuri R, Sabatini DA, and Chen L. "Adsorption of Beta Blockers to Environmental Surfaces," *Environ Sci Technol* **2007**, *41*(15):5349-5356. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es070152v.

Kibbey TCG, and Sabatini DA. "The Influence of Amphiphilic Molecules on the Environmental Fate and Transport of Pharmaceuticals," USEPA, EPA Grant Number: R829005, University of Oklahoma, 2001-2005.

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1062/report/0.

Kidd KA, Blanchfield PJ, Mills KH, Palace VP, Evans RE, Lazorchak JM, et al. "Collapse of a fish population after exposure to a synthetic estrogen," *Proc Nat Acad Sci* **2007**, *104*(21):8897-8901. http://www.pnas.org/cgi/content/abstract/104/21/8897.

Kiffmeyer T, Gotze HJ, Jursch M, and Luders U. "Trace enrichment, chromatographic separation and biodegradation of cytostatic compounds in surface water," *Fres J Anal Chem* **1998**, *361*(2):185-191.

Kiffmeyer TK, Kube C, Opiolka S, Schmidt KG, Schoppe G, and Sessink PJM. "Vapor pressures, evaporation behavior and airborne concentrations of hazardous drugs: implications for occupational

safety," *The Pharmaceutical J* **2002**, *268*:331-337. http://www.pharmj.com/pdf/papers/pj_20020309_vapour.pdf.

Kikuta T. "Modeling of degradation of organic micropollutants in activated sludge process focusing on partition between water and sludge phases," Masters Dissertation, ? pp. http://www.teu.ac.jp/urase/research/kikuta master.pdf.

Kilgour BW, Munkittrick KR, Portt CB, Hedley K, Culp J, Dixit S, et al. "Biological criteria for municipal wastewater effluent monitoring programs," *Wat Qual Res J Canada* **2005**, *40*(3):374-387.

Kim I, Yu ZQ, Xia BH, and Huang WL. "Sorption of male hormones by soils and sediments," *Environ Toxicol Chem* **2007**, *26*(2):264-270.

Kim IH, Tanaka H, Iwasaki T, Takubo T, Morioka T, and Kato Y. "Classification of the degradability of 30 pharmaceuticals in water with ozone, UV and H₂O₂," *Water Sci Technol* **2008**, *57*(2):195-200. http://www.ncbi.nlm.nih.gov/pubmed/18235171 http://www.iwaponline.com/wst/05702/wst057020195.htm.

Kim S, and Aga DS. "Potential ecological and human health impacts of antibiotics and antibioticresistant bacteria from wastewater treatment plants," *J Toxicol Environ Health B Crit Rev* 2007, *10*(8):559-573. http://www.ncbi.nlm.nih.gov/pubmed/18049923.

Kim S, Eichhorn P, Jensen JN, Weber AS, and Aga DS. "Removal of antibiotics in wastewater: Effect of hydraulic and solid retention times on the fate of tetracycline in the activated sludge process," *Environ Sci Technol* **2005**, *39*(15):5816-5823. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i15/abs/es050006u.html.

Kim S, Jensen JN, Aga DS, and Weber AS. "Tetracycline as a selector for resistant bacteria in activated sludge," *Chemosphere* **2007**, *66*(9):1643-1651. http://www.sciencedirect.com/science/article/B6V74-4KV2RDV-5/2/d490b50abe29a83bc7afd19989298400.

Kim SC, and Carlson K. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of antibiotics in solid samples," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 2.2, 95-131. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Kim SC, and Carlson K. "Temporal and Spatial Trends in the Occurrence of Human and Veterinary Antibiotics in Aqueous and River Sediment Matrices," *Environ Sci Technol* **2007**, *41*(1):50-57. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060737+.

Kim S-C, and Carlson K. "LC-MS2 for quantifying trace amounts of pharmaceutical compounds in soil and sediment matrices," *TrAC Trends in Anal Chem* **2005**, *24*(7):635-644. http://www.sciencedirect.com/science/article/B6V5H-4GHBP2X-1/2/4fabb32e7483c86e1a081d8d481b6bbd.

Kim S-C, and Carlson K. "Occurrence of ionophore antibiotics in water and sediments of a mixed-landscape watershed," *Wat Res* **2006**, *40*(13):2549-2560.

http://www.sciencedirect.com/science/article/B6V73-4KBWTP4-4/2/fd9db8f2c11495bc76a2935467113c6f.

Kim S-C, and Carlson K. "Quantification of human and veterinary antibiotics in water and sediment using SPE/LC/MS/MS," *Anal Bioanal Chem* **2007**, *387*(4):1301-1315.

Kim SD, Cho J, Kim IS, Vanderford BJ, and Snyder SA. "Occurrence and removal of pharmaceuticals and endocrine disruptors in South Korean surface, drinking, and waste waters," *Wat Res* **2007**, *41*(5):1013-1021. http://www.sciencedirect.com/science/article/B6V73-4KPX8P7-1/2/7ff5f41a9f8dbb5ff6fbb960998ba3bb.

Kim Y, Choi K, Jung J, Park S, Kim P-G, and Park J. "Aquatic toxicity of acetaminophen, carbamazepine, cimetidine, diltiazem and six major sulfonamides, and their potential ecological risks in Korea," *Environ Internat* **2007**, *33*(3):370-375. http://www.sciencedirect.com/science/article/B6V7X-4MV19WN-1/2/53c36fe63fee4f209ef8c3976e1050a6.

Kim Y, Jung J, Kim M, Park J, Boxall ABA, and Choi K. "Prioritizing veterinary pharmaceuticals for aquatic environment in Korea," *Environ Toxicol Pharmacol* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6T6D-4S32NN7-3/1/c0e38a958d7ed3f505b5f59c0d7c1045.

Kim YH, and Cerniglia CE. "Influence of erythromycin A on the microbial populations in aquaculture sediment microcosms," *Aqua Toxicol* **2006**, *73*(3):230-241.

Kim YH, Heinze TM, Kim SJ, and Cerniglia CE. "Adsorption and clay-catalyzed degradation of erythromycin A on homoionic clays," *J Environ Qual* **2004**, *33*(1):257-264.

Kim YH, Pak K, Pothuluri JV, and Cerniglia CE. "Mineralization of erythromycin A in aquaculture sediments," *FEM Microbiol Lett* **2004**, *234*(1):169-175.

Kim Y-H, Heinze TM, Beger R, Pothuluri JV, and Cerniglia CE. "A kinetic study on the degradation of erythromycin A in aqueous solution," *Internat J Pharmaceutics* **2004**, *271*(1-2):63-76. http://www.sciencedirect.com/science/article/B6T7W-4B668YJ-6/2/cdcca403f36eb108adc053ace7fbf1ed.

Kimber M. "Cleaner Waters," *Chemistry World* **2003**, *39*(5):26-30. http://www.rsc.org/chemistryworld/Issues/2003/May/waters.asp.

Kimmel CA, and Makris SL. "Recent developments in regulatory requirements for developmental toxicology," *Toxicol Lett* **2001**, *120*(1-3):73-82. http://www.sciencedirect.com/science/article/B6TCR-42VM8DN-B/2/8c731f21d8f0ba3ea9a6d55ce5a82063.

Kimura A, Taguchi M, Arai H, Hiratsuka H, Namba H, and Kojima T. "Radiation-induced decomposition of trace amounts of 17 [beta]-estradiol in water," *Radiation Physics Chem* **2004**, *69*(4):295-301. http://www.sciencedirect.com/science/article/B6TVT-49HDNT0-2/2/19de1a773bbc68e42276b0e1df5e72b1.

Kimura A, Taguchi M, Ohtani Y, Shimada Y, Hiratsuka H, and Kojima T. "Treatment of wastewater having estrogen activity by ionizing radiation," *Radiation Physics And Chemistry* **2007**, *76*(4):699-706. http://www.sciencedirect.com/science/article/B6TVT-4K7WJ2R-2/2/99b032fc134de2696c4259a050b4ca17.

Kimura K, Amy G, Drewes J, and Watanabe Y. "Adsorption of hydrophobic compounds onto NF/RO membranes: an artifact leading to overestimation of rejection," *J Membrane Sci* **2003**, *221*(1-2):89-101. http://www.sciencedirect.com/science/article/B6TGK-495VHJK-4/2/24af69eb1157aaba6fa6d25f520d775e.

Kimura K, Hara H, and Watanabe Y. "Removal of pharmaceutical compounds by submerged membrane bioreactors (MBRs)," *Desalination* **2005**, *178*(1-3):135-140. http://www.sciencedirect.com/science/article/B6TFX-4HBRP0P-H/2/d3f3a4c42b3bcd4ed72cec627fb56856.

Kimura K, Hara H, and Watanabe Y. "Elimination of Selected Acidic Pharmaceuticals from Municipal Wastewater by an Activated Sludge System and Membrane Bioreactors," *Environ Sci Technol* **2007**, *41*(10):3708-3714. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es061684z.

Kimura K, Toshima S, Amy G, and Watanabe Y. "Rejection of neutral endocrine disrupting compounds (EDCs) and pharmaceutical active compounds (PhACs) by RO membranes," *J Membrane Sci* **2004**, *245*(1-2):71-78. http://www.sciencedirect.com/science/article/B6TGK-4DFBWFP-1/2/446fe21fb107341e0cc20de2995b145e.

Kinney CA, Furlong ET, Cahill J, and Werner S. "Occurrence and behavior of wastewater derived pharmaceuticals in soils irrigated with reclaimed water," *Abstracts of Papers of the AmChem Soc* **2004**, *227*(1 (28 March)):U1056-U1056.

Kinney CA, Furlong ET, Kolpin DW, Burkhardt MR, Zaugg SD, Werner SL, et al. "Bioaccumulation of Pharmaceuticals and Other Anthropogenic Waste Indicators in Earthworms from Agricultural Soil Amended With Biosolid or Swine Manure," *Environ Sci Technol* **2008**, *42*(6):1863-1870. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702304c.

Kinney CA, Furlong ET, Werner SL, and Cahill JD. "Presence and distribution of wastewater-derived pharmaceuticals in soil irrigated with reclaimed water," *Environ Toxicol Chem* **2006**, *25*(2):317-326. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F05-187R.1.

Kinney CA, Furlong ET, Zaugg SD, Burkhardt MR, Werner SL, Cahill JD, et al. "Survey of Organic Wastewater Contaminants in Biosolids Destined for Land Application," *Environ Sci Technol* **2006**, *40*(23):7207-7215. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0603406.

Kiparissis Y, Balch GC, Metcalfe TL, and Metcalfe CD. "Effects of the isoflavones genistein and equol on the gonadal development of Japanese medaka (Oryzias latipes)," *Environ Health Perspect* **2003**, *111*(9):1158-1163.

Kirigaya A, Hayashi S, Iguchi T, and Sato T. "Developmental effects of ethinylestradiol on reproductive organs of female mice," *In Vivo* **2006**, *20*(6B):867-873.

Kirk LA, Tyler CR, Lye CM, and Sumpter JP. "Changes in estrogenic and androgenic activities at different stages of treatment in wastewater treatment works," *Environ Toxicol Chem* **2002**, *21*(5):972-979.

Kiwa NV. "Pharmaceuticals and personal care products in the water," 2004, pp.

Kjær J, Olsen P, Bach K, Barlebo HC, Ingerslev F, Hansen M, et al. "Leaching of estrogenic hormones from manure-treated structured soils," *Environ Sci Technol* **2007**, *41*(11):3911-3917.

Klagkou K, Pullen F, Harrison M, Organ A, Firth A, and Langley GJ. "Fragmentation pathways of sulphonamides under electrospray tandem mass spectrometric conditions," *Rapid Commun Mass Spectrom* **2003**, *17*(21):2373-2379.

Klaschka U, and Kolossa-Gehring M. "Fragrances in the environment: Pleasant odours for nature?," *Environ Sci Pollut Res* **2007**, *14*(1):44-52.

Klaschka U, Liebig M, and Knacker T. "Medicinal and bodily products. Less environmental damage through ecolabels," *Chemie in Unserer Zeit* **2005**, *39*(2):122-128.

Klaschka U, Liebig M, and Knacker T. "Eco-labelling of shampoos, shower gels and foam baths," *Environ Sci Pollut Res* **2007**, *14*(1):24-29.

Klaschka U, Liebig M, Moltmann JF, and Knacker T. "Potential environmental risks by cleaning hair and skin ECO-LABEL - A possibility to reduce exposure to personal care products," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 30, 411-428.

Klauke N, and Plattner H. "Frustrated exocytosis" - A novel phenomenon: Membrane fusion without contents release, followed by detachment and reattachment of dense core vesicles in Paramecium cells," *J Membrane Biol* **2000**, *176*:237-248.

Klaverkamp JF, Palace VP, Baron CL, Evans RE, and Wautier KG. "Cumulative effects of multiple contaminants on caged fish," *Wat Qual Res J Canada* **2006**, *41*(3):344-255.

Klee N, Gustavsson L, Kosmehl T, Engwall M, Erdinger L, Braunbeck T, et al. "Changes in toxicity and genotoxicity of industrial sewage sludge samples containing nitro- and amino-aromatic compounds following treatment in bioreactors with different oxygen regimes," *Environ Sci Pollut Res* **2004**, *11*:313-320.

Klein C. "Degradation of 17α-ethinylestradiol in wastewater treatment systems " Doctoral Dissertation, State University of New York at Buffalo, Buffalo, New York, 2007. 165 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2257959 ,FM=9,SEARCH=MD.GenericSearch.

Kleiner DK, Katz SE, and Ward PML. "Development of in vitro antimicrobial resistance in bacteria exposed to residue level exposures of antimicrobial drugs, pesticides and veterinary drugs," *Chemotherapy* **2007**, *53*(2):132-136.

Kleymenova E, Swanson C, Boekelheide K, and Gaido KW. "Exposure in utero to di(n-butyl) pthalate alters the vimentin cytoskeleton of fetal rat sertoli cells and disrupts sertoli cell-gonocyte contact " *Biolog Reproduct* **2005**, *73*(3):482-490.

Kleywegt S, Smyth S-A, Parrott J, Schaefer K, Lagacé E, Payne M, et al. "Pharmaceuticals and personal care products in the Canadian environment: research and policy directions," Niagara-on-the-Lake, Ontario, Canada, March 5-7, 2007, 53 pp. http://www.nwri.ca/ppcp-ppsp/pdfs/ppcp-ppsp_2007-e.pdf.

Klick S, Muijselaar PG, Waterval J, Eichinger T, Korn C, Gerding TK, et al. "Toward a Generic Approach for Stress Testing of Drug Substances and Drug Products," *Pharm Technol* **2005**:48-66. http://pharmtech.findpharma.com/pharmtech/data/articlestandard/pharmtech/072005/146294/article.pdf

Kloas W, and Lutz I. "Amphibians as model to study endocrine disrupters," *J Chromatogr A* **2006**, *1130*(1):16-27. http://www.sciencedirect.com/science/article/B6TG8-4JYKMR8-1/2/3d8789ca1bbbcd43ab39974b340366db.

Kloas W, Lutz I, and Einspanier R. "Amphibians as a model to study endocrine disruptors: II. Estrogenic activity of environmental chemicals in vitro and in vivo," *Sci Total Environ* **1999**, *225*(1-2):59-68. http://www.sciencedirect.com/science/article/B6V78-49G03VK-4/2/0763ff286a14acb5c6db666ffe7b69c4.

Kloepfer A, Quintana JB, and Reemtsma T. "Operational options to reduce matrix effects in liquid chromatography-electrospray ionisation-mass spectrometry analysis of aqueous environmental samples," *J Chromatogr A* **2005**, *1067*(1-2):153-160. http://www.sciencedirect.com/science/article/B6TG8-4F31PTR-1/2/fa89377bd09d9c0d6219b8cf59929deb.

Knacker T, Duis K, Ternes T, Fenner K, Escher B, Schmitt H, et al. "The EU-project ERAPharm. Incentives for the further development of guidance documents?," *Environ Sci Pollut Res* **2005**, *12*(2):62-65.

Knacker T, Liebig M, and Moltmann JF. "Environmental risk assessment," in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, Seattle, 2006, 121-147. 30 Jan. http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Knapp CW, Caquet T, Hanson ML, Lagadic L, and Graham DW. "Response of water column microbial communities to sudden exposure to deltamethrin in aquatic mesocosms," *FEMS Microbiol Ecol* **2005**, *54*(1):157-165. http://www.sciencedirect.com/science/article/B6T2V-4FVC9VR-1/2/fefdff3e6ee590ac44dfe96c02b81eae.

Knapp CW, Cardoza LA, Hawes JN, Wellington EMH, Larive CK, and Graham DW. "Fate and Effects of Enrofloxacin in Aquatic Systems under Different Light Conditions," *Environ Sci Technol* **2005**, *39*(23):9140-9146. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0508951.

Knapp CW, Engemann CA, Hanson ML, Keen PL, Hall KJ, and Graham DW. "Indirect Evidence of Transposon-Mediated Selection of Antibiotic Resistance Genes in Aquatic Systems at Low-Level

Oxytetracycline Exposures," *Environ Sci Technol* **2008**, *42*(14):5348-5353. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es703199g.

KNAPPE "Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters," http://www.knappe-eu.org/index.php?m=1.

Knappe A, Fritz B, Pekdeger A, Moller P, Dulski P, and H-W. H. "Using the REE gadolinium as a new tracer for sewage influence in aqueous urban systems," 2001 Proc International Symposium Water-Rock Interaction, Villasimius, Italy, 2001.

Knappe A, Moller P, Dulski P, and Pekdeger A. "Positive gadolinium anomaly in surface water and ground water of the urban area Berlin, Germany," *Chemie Der Erde-Geochem* **2005**, *65*(2):167-189.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters. "Sixth Framework Programme Priority 1.1.6.3 "Global Change and sustainable development" Subpriority "Global Change and Ecosystems"," 29 March, 2007, 90 pp.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters. "Introductory Note to Sessions on 'Policy Instruments'," Environmental Stewardship of Pharmaceuticals and Policy Instruments, York, UK, 29-30 April, 2008, www.knappe-eu.org.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters. "KNAPPE Workshop Proceedings," Environmental Stewardship of Pharmaceuticals and Policy Instruments, York, UK, 29-30 April, 2008, www.knappe-eu.org.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, Schusener M, Loffler D, and Ternes T. "6th Framework Programme," February 1, 2007, pp.

Knepper TP. "Analysis and fate of insect repellents," Wat Sci Technol 2004, 50(5):301-308.

Knepper TP. "Analysis and mass spectrometric characterization of the insect repellent Bayrepel and its main metabolite Bayrepel-acid," *J Chromatogr A* **2004**, *1046*(1-2):159-166.

Knitt LE, Shapley JR, and Strathmann TJ. "Rapid Metal-Catalyzed Hydrodehalogenation of Iodinated X-Ray Contrast Media," *Environ Sci Technol* **2008**, *42*(2):577-583. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es071837y.

Kobayashi T, Hirose J, Sano K, Hiro N, Ijiri Y, Takiuchi H, et al. "Evaluation of an electrolysis apparatus for inactivating antineoplastics in clinical wastewater," *Chemosphere* **2008**, *72*(4):659-665. http://www.sciencedirect.com/science/article/B6V74-4S9NG56-1/1/84951092e1999809e916e61d40c5dd01.

Koch DE, Bhandari A, Close L, and Hunter RP. "Azithromycin extraction from municipal wastewater and quantitation using liquid chromatography/mass spectrometry," *J Chromatogr A* **2005**, *1074*(1-2):17-22. http://www.sciencedirect.com/science/article/B6TG8-4FVH4BW-7/2/7dba41185c056413e40d57f94df53c3a.

Koda T, Umezu T, Kamata R, Morohoshi K, Ohta T, and Morita M. "Uterotrophic effects of benzophenone derivatives and a p-hydroxybenzoate used in ultraviolet screens," *Environ Res* 2005,

98(1):40-45. http://www.sciencedirect.com/science/article/B6WDS-4CVRKGS-1/2/137d46bae7ccb7bddd5421ad6fdca859.

Koesukwiwat U, Jayanta S, and Leepipatpiboon N. "Solid-phase extraction for multiresidue determination of sulfonamides, tetracyclines, and pyrimethamine in bovine's milk," *J Chromatogr A* **2007**, *1149*(1):102-111. http://www.ncbi.nlm.nih.gov/pubmed/17376463.

Koesukwiwat U, Jayanta S, and Leepipatpiboon N. "Validation of a liquid chromatography-mass spectrometry multi-residue method for the simultaneous determination of sulfonamides, tetracyclines, and pyrimethamine in milk," *J Chromatogr* **2007**, *1140*(1-2):147-156.

Koeypudsa W, Yakupitiyage A, and Tangtrongpiros J. "The fate of chlortetracycline residues in a simulated chicken-fish integrated farming systems," *Aqua Res* **2005**, *36*(6):570-577.

Koh YK, Chiu TY, Boobis A, Cartmell E, Lester JN, and Scrimshaw MD. "Determination of steroid estrogens in wastewater by high performance liquid chromatography - tandem mass spectrometry," *J Chromatogr A* **2007**, *1173*(1-2):81-87.

Koh YKK, Chiu TY, Boobis A, Cartmell E, Scrimm, and Lester JN. "Treatment and removal strategies for estrogens from wastewater," *Environ Technol* **2008**, *29*(3):245-267. http://www.informaworld.com/smpp/content~content=a792950493~db=all.

Kohn MC, Parham F, Masten SA, Portier CJ, Shelby MD, and Needham LL. "Human exposure estimates for phthalates," *Environ Health Perspect* **2000**, *108*(10):A440-442. http://ehpnet1.niehs.nih.gov/docs/2000/108-10/correspondence.html.

Koike S, Krapac IG, Oliver HD, Yannarell AC, Chee-Sanford JC, Aminov RI, et al. "Monitoring and Source Tracking of Tetracycline Resistance Genes in Lagoons and Groundwater Adjacent to Swine Production Facilities over a 3-Year Period," *Appl Environ Microbiol* **2007**, *73*(15):4813-4823. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=17545324.

Kolodziej EP, Gray JL, and Sedlak DL. "Quantification of steroid hormones with pheromonal properties in municipal wastewater effluent," *Environ Toxicol Chem* **2003**, *22*(11):2622-2629.

Kolodziej EP, Harter T, and Sedlak DL. "Dairy wastewater, aquaculture, and spawning fish as sources of steroid hormones in the aquatic environment," *Environ Sci Technol* **2004**, *38*(23):6377-6384.

Kolodziej EP, and Seldak DL. "Rangeland grazing as a source of steroid hormones to surface waters," *Environ Sci Technol* **2007**, *41*(10):3514-3520. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/asap/abs/es063050y.html.

Kolok AS, and Sellin MK. "The Environmental Impact of Growth-Promoting Compounds Employed by the United States Beef Cattle Industry: History, Current Knowledge, and Future Directions," in *Rev Environ Contam Toxicol*, Springer New York, 2008, 1-30. http://dx.doi.org/10.1007/978-0-387-77030-7_1.

Kolpin D, Battaglin W, Conn K, Furlong E, Glassmeyer S, Kalkhoff S, et al. "Occurrence of Transformation Products in the Environment," in *The Black Sea environment*, Springer Berlin/Heidelberg, 2008, 18. http://dx.doi.org/10.1007/698_2_011.

Kolpin DW, Furlong ET, Meyer MT, Thurman EM, Zaugg SD, Barber LB, et al. "Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: a national reconnaissance," *Environ Sci Technol* **2002**, *36*(6):1202-1211.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =11944670 and http://www.mindfully.org/Water/Wastewater-Contaminants-US-StreamsMar02.htm.

Kolpin DW, Furlong ET, Meyer MT, Thurman EM, Zaugg SD, Barber LB, et al. "Response to comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in US streams, 1999-2000: A national reconnaissance'," *Environ Sci Technol* **2002**, *36*(18):4007-4008. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i18/abs/es020136s.html.

Kolpin DW, Skopec M, Meyer MT, Furlong ET, and Zaugg SD. "Urban contribution of pharmaceuticals and other organic wastewater contaminants to streams during differing flow conditions," *Sci Total Environ* **2004**, *328*(1-3):119-130. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15207578.

Kolpin DW, Thurman EM, Lee EA, Meyer MT, Furlong ET, and Glassmeyer ST. "Urban contributions of glyphosate and its degradate AMPA to streams in the United States," *Sci Total Environ* **2006**, *354*(2-3):191-197. http://www.sciencedirect.com/science/article/B6V78-4FPX2J0-4/2/3bfe2a2cd5ed0ce0337c6dc4401880fc.

Kolpin DW, Thurman EM, and Linhart SM. "The environmental occurrence of herbicides: The importance of degradates in ground water," *Arch Environ Contam Toxicol* **1998**, *35*(3):385-390. <Go to ISI>://CCC:000075722400004.

Kolz AC, Moorman TB, Ong SK, Scoggin KD, and Douglass EA. "Degradation and metabolite production of tylosin in anaerobic and aerobic swine-manure lagoons," *Wat Environ Res* **2005**, 77(1):49-56.

Komori K, Tanaka H, Okayasu Y, Yasojima M, and Sato C. "Analysis and occurrence of estrogen in wastewater in Japan," *Wat Sci Technol* **2004**, *50*(5):93-100.

Konek CT, Illg KD, Al-Abadleh HA, Voges AB, Yin G, Musorrafiti MJ, et al. "Nonlinear optical studies of the agricultural antibiotic morantel interacting with silica/water interfaces," *J Am Chem Soc* **2005**, *127*(45):15771-15777.

Kong RYC, Giesy JP, Wu RSS, Chen EXH, Chiang MWL, Lim PL, et al. "Development of a marine fish model for studying in vivo molecular responses in ecotoxicology," *Aqua Toxicol* **2008**, *86*(2):131-141. http://www.sciencedirect.com/science/article/B6T4G-4R17TS6-1/2/96ca28a69d0fe7f7115e66faaf3944cf.

Kong WD, Zhu YG, Fu BJ, Marschner P, and He JZ. "The veterinary antibiotic oxytetracycline and Cu influence functional diversity of the soil microbial community," *Environ Pollut* **2006**, *143*(1):129-137. http://www.sciencedirect.com/science/article/B6VB5-4J2KY16-2/2/1598334bdcce5d6f540900c25d163531.

Kong WD, Zhu YG, Liang YC, Zhang J, Smith FA, and Yang A. "Uptake of oxytetracycline and its phytotoxicity to alfalfa (Medicago sativa L.)," *Environ Pollut* **2007**, *147*(1):187-193. <Go to ISI>://CCC:000245475400022.

Konstanze G, Niemann L, Selzsam B, Haider W, Gericke C, Herzler M, et al. "Epoxiconazole Causes Changes in Testicular Histology and Sperm Production in the Japanese quail (Coturnix coturnix japonica)," *Environ Toxicol Chem* **2008**, *In Press* http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F08-048.1.

Kools SA, Boxall A, Moltmann JF, Bryning G, Koschorreck J, and Knacker T. "A ranking of European veterinary medicines based on environmental risks," *Integr Environ Assess Manag* 2008, *In press* http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2FIEAM_2008-002.1.

Kools SAE, Moltmann JF, and Knacker T. "Estimating the use of veterinary medicines in the European union," *Reg Toxicol Pharmacol* **2008**, *50*(1):59-65. http://www.sciencedirect.com/science/article/B6WPT-4P192PG-2/2/577edd2c61a66c993887f063906a0cb2.

Kormos JL. "Occurrence and seasonal variability of selected pharmaceuticals in southern ontario drinking water supplies," Masters Dissertation, University of Waterloo, Waterloo, Ontario, Canada, 2007. 162 pp.

http://uwspace.uwaterloo.ca/bitstream/10012/2774/1/MSc%20Thesis%20JKormos%20Final.pdf.

Korner O, Vermeirssen ELM, and Burkhardt-Holm P. "Reproductive health of brown trout inhabiting Swiss rivers with declining fish catch," *Aqua Sci* **2007**, *69*(1):26-40.

Korner W, Hanf V, Schuller W, Kempter C, Metzger J, and Hagenmaier H. "Development of a sensitive E-screen assay for quantitative analysis of estrogenic activity in municipal sewage plant effluents," *Sci Total Environ* **1999**, *225*(1-2):33-48. http://www.sciencedirect.com/science/article/B6V78-49G03VK-2/2/8c5ada2f47205425dcef55acf8b20605.

Korsgaard B, Andreassen TK, and Rasmussen TH. "Effects of an environmental estrogen, 17αethinyl-estradiol, on the maternal-fetal trophic relationship in the eelpout Zoarces viviparus (L)," *Mar Environ Res* **2002**, *54*(3-5):735-739. http://www.ingentaconnect.com/content/els/01411136/2002/00000054/00000003/art00112 http://dx.doi.org/10.1016/S0141-1136(02)00112-5 http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V7H-45VCHB2-3& user=6729288& rdoc=1& fmt=& orig=search& sort=d&view=c& acct=C000001678& version

Korshin GV, Kim J, and Gan L. "Comparative study of reactions of endocrine disruptors bisphenol A and diethylstilbestrol in electrochemical treatment and chlorination," *Wat Res* **2006**, *40*(5):1070-1078. http://www.sciencedirect.com/science/article/B6V73-4J8CX6T-1/2/904838c7cae2ffe1bb2e04e43a2f3fcc.

=1& urlVersion=0& userid=6729288&md5=bcbfdf7ac5f11c62de6bfeefce5e6a75.

Kortenkamp A. "Complete list of publications," http://www.pharmacy.ac.uk/andreas_kortenkamp.html. Kortenkamp A, and Altenburger R. "Synergisms with mixtures of xenoestrogens: A reevaluation using the method of isoboles," *Sci Total Environ* **1998**, *221*(1):59-73. http://www.sciencedirect.com/science/article/B6V78-3TW99M4-5/2/c1324e7ad9685b1c4c1dfcd98c9b85ea.

Kortenkamp A, and Altenburger R. "Approaches to assessing combination effects of oestrogenic environmental pollutants," *Sci Total Environ* **1999**, *233*(1-3):131-140. http://www.sciencedirect.com/science/article/B6V78-3X7V32R-F/1/3f131df789583c65f3ad177f611ffaf5.

Kortner TM, and Arukwe A. "Effects of 17 α-methyltestosterone exposure on steroidogenesis and cyclin-B mRNA expression in previtellogenic oocytes of Atlantic cod (Gadus morhua)," *Comp Biochem Physiol C - Toxicol Pharmacol* **2007**, *146*(4):569-580. http://www.ncbi.nlm.nih.gov/pubmed/17707136.

Koschorreck J, and Apel P. "A Brief Overview on the Legal Background and the Regulatory Instruments of the Environmental Risk Assessment for Pharmaceuticals in the EU, USA, Japan, Australia and Canada," in *Human Pharmaceuticals, Hormones and Fragrances The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, Seattle, 2006, 107-119. 30 Jan. http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Koschorreck J, and de Kneckt J. "Environmental risk assessment of pharmaceuticals in the EU - A regulatory perspective," in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Heidelberg, New York, 2004, 289-310. http://www.cplbookshop.com/contents/C772.htm.

Koschorreck J, Koch C, and Ronnefahrt I. "Environmental risk assessment of veterinary medicinal products in the EU--a regulatory perspective," *Toxicol Lett* **2002**, *131*(1-2):117-124. http://www.sciencedirect.com/science/article/B6TCR-45CNC4S-3/2/91d2955d0b9034af30dd35103a8cb05b.

Kosjek T, Heath E, and Kompare B. "Removal of pharmaceutical residues in a pilot wastewater treatment plant," *Anal Bioanal Chem* **2007**, *387*(4):1379-1387.

Kosjek T, Heath E, and Krbavcic A. "Determination of non-steroidal anti-inflammatory drug (NSAIDs) residues in water samples," *Environ Internat* **2005**, *31*(5):679-685. http://www.sciencedirect.com/science/article/B6V7X-4FFX944-1/2/1c9df7a100455e2581174789885e93d3.

Kosjek T, Heath E, Petrovic M, and Barceló D. "Mass spectrometry for identifying pharmaceutical biotransformation products in the environment," *TrAC Trends Anal Chem* **2007**, *26*(11):1076-1085. http://www.sciencedirect.com/science/article/B6V5H-4R0CJXW-1/1/aeb1303d9fd6d164b018dae868002fd7.

Kosta L, Isbell AF, and Allen HE. "Other people's drugs," Letters 2000, 78(23):8-10.

Kostich MS, and Lazorchak JM. "Risks to aquatic organisms posed by human pharmaceutical use," *Sci Total Environ* **2008**, *389*(2-3):329-339. http://www.sciencedirect.com/science/article/B6V78-4PYJDXT-3/1/3fe860f42c574493b01370c3efbc80b9.

Kosutic K, Dolar D, Asperger D, and Kunst B. "Removal of antibiotics from a model wastewater by RO/NF membranes," *Sep Purification Technol* **2007**, *53*(3):244-249. http://www.sciencedirect.com/science/article/B6THJ-4KVP1C1-1/2/0548b81c3e74f9608a5c32adb0d5df87.

Kot-Wasik A, Debska J, and Namiesnik J. "Analytical techniques in studies of the environmental fate of pharmaceuticals and personal-care products," *TrAC Trends in Anal Chem* **2007**, *26*(6):557-568. http://www.sciencedirect.com/science/article/B6V5H-4MM8B6X-1/2/cec8404bea5b9c7debc9abd9390e59d3.

Kot-Wasik A, Dębska J, Wasik A, and Namieśnik J. "Determination of non-steroidal antiinflammatory drugs in natural waters using off-line and on-line SPE followed by LC coupled with DAD-MS," *Chromatographia* **2006**, *64*(1-2):13-21.

Kotzerke A, Sharma S, Schauss K, Heuer H, Thiele-Bruhn S, Smalla K, et al. "Alterations in soil microbial activity and N-transformation processes due to sulfadiazine loads in pig-manure," *Environ Pollut* **2008**, *153*(2):315-322. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VB5-4PT1P5X-

5&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=0e792ce058fb191ce429a563c1c7f2ed.

Koutsaftis A, and Aoyama I. "Toxicity of four antifouling biocides and their mixtures on the brine shrimp Artemia salina," *Sci Total Environ* **2007**, *387*(1-3):166-174. http://www.sciencedirect.com/science/article/B6V78-4PK89YF-1/1/f2e5fe53bc8110f45715335352588027.

Koutsouba V, Heberer T, Fuhrmann B, Schmidt-Baumler K, Tsipi D, and Hiskia A. "Determination of polar pharmaceuticals in sewage water of Greece by gas chromatography-mass spectrometry," *Chemosphere* **2003**, *51*(2):69-75. http://www.sciencedirect.com/science/article/B6V74-47TNN8V-G/2/7f0004ab23f6d0cf74740173c127ea96.

Kowalski C, Zan R, and Rolinski Z. "Pleuromutilin derivatives and their usage in veterinary treatment," *Medycyna Weterynaryjna* **2004**, *60*(1):22-26.

Koyuncu I, Arikan OA, Wiesner MR, and Rice C. "Removal of hormones and antibiotics by nanofiltration membranes," *J Membrane Sci* **2008**, *309*(1-2):94-101. http://www.sciencedirect.com/science/article/B6TGK-4PX7B2Y-1/2/85703199b427095bcb8b7094e977cd3f.

Koziar SA. "Chlorination of pharmaceuticals during water treatment " Masters Dissertation, Dalhousie University, Nova Scotia, Canada, 2007. 120 pp.

Kraemer T, Theis GA, Weber AA, and Maurer HH. "Studies on the metabolism and toxicological detection of the amphetamine-like anorectic fenproporex in human urine by gas chromatography-mass spectrometry and fluorescence polarization immunoassay," *J Chromatogr B: Biomed Sci Applications*

2000, *738*(1):107-118. http://www.sciencedirect.com/science/article/B6TG9-3YDFYKK-F/2/529cdd07db6248dd2d5b3f1790a98c62.

Kraemer T, Vernaleken I, and Maurer HH. "Studies on the metabolism and toxicological detection of the amphetamine-like anorectic mefenorex in human urine by gas chromatography-mass spectrometry and fluorescence polarization immunoassay," *J Chromatogr B: Biomed Sci Applications* **1997**, 702(1-2):93-102. http://www.sciencedirect.com/science/article/B6TG9-3SH49P7-B/2/4f11aad48e466d26c5f8f536057b963a.

Kraigher B, Kosjek T, Heath E, Kompare B, and Mandic-Mulec I. "Influence of pharmaceutical residues on the structure of activated sludge bacterial communities in wastewater treatment bioreactors," *Wat Res* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4T7085K-1/2/fb2d4711843889f3ae9c0eaa259404f9.

Krammer PH. "CD95's deadly mission in the immune system," Nature 2000, 407:789-795.

Krang A-S, and Dahlstrom M. "Effects of a candidate antifouling compound (medetomidine) on pheromone induced mate search in the amphipod Corophium volutator," *Mar Pollut Bull* **2006**, *52*(12):1776-1783. http://www.sciencedirect.com/science/article/B6V6N-4M6SGF7-7/2/94374f031e74b719ba6ce9705bfad12a.

Krasko A, Kurelec B, Batel R, Muller IM, and Muller WEG. "Potential multidrug resistance gene POHL: An ecologically relevant indicator in marine sponges," *Environ Toxicol Chem* **2001**, *20*(1):198-204. http://dx.doi.org/10.1897%2F1551-5028%282001%29020%3C0198%3APMRGPA%3E2.0.CO%3B2.

Kratz W. "Ecotoxicological Risk of Human Pharmaceuticals in Brandenburg Surface Waters?," in *Standards and Thresholds for Impact Assessment*, Schmidt M, Glasson J, Emmelin L and Helbron H, Eds., Springer, 2008, Chapter 30, 379-389. http://dx.doi.org/10.1007/978-3-540-31141-6_30.

Krejsa CM, Horvath D, Rogalski SL, Penzotti JE, Mao B, Barbosa F, et al. "Predicting ADME properties and side effects: The BioPrint approach," *Current Opinion in Drug Discovery & Development* **2003**, 6:470-480.

Kreke N, and Dietrich DR. "Physiological Endpoints for Potential SSRI Interactions in Fish," *Crit Rev Toxicol* **2008**, *38*(3):215 - 247. http://www.informaworld.com/10.1080/10408440801891057.

Kretschmer XC, and Baldwin WS. "CAR and PXR: Xenosensors of endocrine disrupters," *Chemico - Biolog Interactions* **2005**, *155*(3):111-128.

Kreuzig R, Blümlein K, and Höltge S. "Fate of the Benzimidazole Antiparasitics Flubendazole and Fenbendazole in Manure and Manured Soils," *CLEAN - Soil, Air, Water* **2007**, *35*(5):488-494. http://dx.doi.org/10.1002/clen.200720023.

Kreuzig R, and Höltge S. "Investigations on the fate of sulfadiazine in manured soil: laboratory experiments and test plot studies," *Environ Toxicol Chem* **2005**, *24*(4):771-776.

Kreuzig R, Höltge S, Brunotte J, Berenzen N, Wogram J, and Schulz R. "Test-plot studies on runoff of sulfonamides from manured soils after sprinkler irrigation," *Environ Toxicol Chem* **2005**, *24*(4):777-781.

Kreuzig R, Kullmer C, Matthies B, Holtge S, and Dieckmann H. "Fate and behaviour of pharmaceutical residues in soils," *Fres Environ Bull* **2003**, *12*(6):550-558.

Kreuzinger N, Clara M, Strenn B, and Kroiss H. "Relevance of the sludge retention time (SRT) as design criteria for wastewater treatment plants for the removal of endocrine disruptors and pharmaceuticals from wastewater," *Wat Sci Technol* **2004**, *50*(5):149-156. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20043169151.

Kreuzinger N, Clara M, Strenn B, and Vogel B. "Investigation on the behaviour of selected pharmaceuticals in the groundwater after infiltration of treated wastewater," *Wat Sci Technol* **2004**, *50*(2):221-228.

Krieger H, Frishkorn G, Martin E, and Jacobs B. "Evaluation of Methodology for Quantifying Radiopharmaceuticals in Tertiary-Treated Sewage," Jan, 1980, 9 pp. http://www.astm.org/DIGITAL_LIBRARY/STP/PAGES/STP35090S.htm.

Kristensen T, Baatrup E, and Bayley M. "17 alpha-ethinylestradiol reduces the competitive reproductive fitness of the male guppy (Poecilia reticulata)," *Biolog Reproduct* **2005**, *72*(1):150-156.

Kristiansen JE, and Amaral L. "The potential management of resistant infections with non-antibiotics," *J Antimicrob Chemother* **1997**, *40*(3):319-327. http://jac.oxfordjournals.org/cgi/content/abstract/40/3/319.

Kronberg L. "L43 Pharmaceuticals in the environment--An environmental hazard?," *Eur J Pharm Sci* **2008**, *34*(1, Supplement 1):S24-S24. http://www.sciencedirect.com/science/article/B6T25-4SD2592-1R/1/85cc1bdc73c58bcd535ee9331993eb28.

Krüger K, and Scholtz CH. "Changes in the structure of dung insect communities after ivermectin usage in a grassland ecosystem. II. Impact of ivermectin under high-rainfall conditions," *Acta Oecologica* **1998**, *19*(5):439-451. http://www.sciencedirect.com/science/article/B6VR3-3W292P8-1R/1/dc6c779fac15f86b3faeb92de55ad886.

Kruszewska H, Chmielowiec U, Bednarek E, Witowska-Jarosz J, Dobrowolski JC, and Misicka A. "Spectroscopic identification of AZT derivative obtained from biotransformation of AZT by Stenotrophomonas maltophilia," *J Molecular Structure* **2003**, *651-653*:645-650. http://www.sciencedirect.com/science/article/B6TGS-48CX1HB-1/2/f74d70200d8efcc047be095cf691c950.

Kszos LA, and Stewart AJ. "Review of lithium in the aquatic environment: Distribution in the united states, toxicity and case example of groundwater contamination," *Ecotoxicol Environ Safety* **2003**, *12*:439-447.

Kuch HM, and Ballschmiter K. "Determination of endogenous and exogenous estrogens in effluents from sewage treatment plants at the ng/L-level," *Fres J Anal Chem* **2000**, *366*(4):392-395.

Kuch HM, and Ballschmiter K. "Determination of Endocrine-Disrupting Phenolic Compounds and Estrogens in Surface and Drinking Water by HRGC-(NCI)-MS in the Picogram per Liter Range," *Environ Sci Technol* **2001**, *35*(15):3201-3206.

Kuchta SL. "Lincomycin and spectinomycin: persistence in liquid swine manure and their transport from manure-amended soil," Masters Dissertation, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, 2008. 32 pp.

http://64.233.167.104/search?q=cache:4QwRzTfKYvkJ:library2.usask.ca/theses/submitted/etd-02292008-

125535/unrestricted/kuchta_feb2008.pdf+daughton+disposal&hl=en&ct=clnk&cd=137&gl=us.

Kuehn BM. "Traces of drugs found in drinking water: Health effects unknown, safer disposal urged," *J Am Med Assoc* **2008**, *299*(17):2011-2013. http://jama.ama-assn.org/cgi/content/full/299/17/2011.

Kuhlmann J. "Alternative strategies in drug development: clinical pharmacological aspects," *Internat J Clinical Pharmacol Therapeut* **1999**, *37*:575-583.

Kuhn DM, George T, Chandra J, Mukherjee PK, and Ghannoum MA. "Antifungal susceptibility of Candida biofilms: Unique efficacy of amphotericin B lipid formulations and echinocandins," *Antimicrob Agents Chemother* **2002**, *46*:1773-1780.

Kuhne M, Ihnen D, Moller G, and Agthe O. "Stability of tetracycline in water and liquid manure," *J Vet Med Series A - Physiol Pathol Clinical Med* **2000**, *47*(6):379-384. http://www.ingentaconnect.com/content/bsc/jva/2000/00000047/00000006/art00006.

Kuhne M, and Mitzscherling AT. "Bound residues of tetracyclines in the food chain - a contribution to the hazard identification," *Berliner und Munchener Tierarztliche Wochenschrift* **2004**, *117*(5-6):201-206.

Kujalova H, Sykora V, and Pitter P. "Estrogenic substances in water," *Chemicke Listy* **2007**, *101*(9):706-712.

Kuklenyik Z, Bryant XA, Needham LL, and Calafat AM. "SPE/SPME-GC/MS approach for measuring musk compounds in serum and breast milk," *J Chromatogr B* 2007, *858*(1-2):177-183. http://www.sciencedirect.com/science/article/B6X0P-4PHBWTF-5/1/dcae010b6ff7f3a47625c53afeec7107.

Kulik N, Trapido M, Goi A, Veressinina Y, and Munter R. "Combined chemical treatment of pharmaceutical effluents from medical ointment production," *Chemosphere* **2008**, *70*(8):1525-1531. http://www.sciencedirect.com/science/article/B6V74-4PRRH69-5/1/ca85654795e8e75dcff8d92091361f16.

Kulkarni GK, Nagabhushanam R, Amaldoss G, Jaiswal RG, and Fingerman M. "In vivo stimulation of ovarian development in the red swamp crayfish, Procambarus clarkii (Girard), by 5-hydroxytryptamine," *Invert Repro Devel* **1992**, *21*(3):231-240.

Kumagai T, Inoue T, Mihara Y, Ebina K, and Yokota K. "Influences of drugs on the oxygen uptake rate and biosorption of activated sludge," *Biolog Pharm Bull* **2006**, *29*(1):183-186.

Kumar A, Malik AK, Tewary DK, and Singh B. "Gradient HPLC of antibiotics in urine, ground water, chicken muscle, hospital wastewater, and pharmaceutical samples using C-18 and RP-amide columns," *J Sep Sci* **2008**, *31*(2):294-300. http://dx.doi.org/10.1002/jssc.200700373.

Kumar AS, Mody K, and Jha B. "Antibiotic sensitivity of exopolysaccharide producing marine bacteria," *National Academy Science Letters-India* **2006**, *29*(11-12):423-428.

Kumar K, Gupta SC, Baidoo SK, Chander Y, and Rosen CJ. "Antibiotic uptake by plants from soil fertilized with animal manure," *J Environ Qual* **2005**, *34*(6):2082-2085.

Kumar K, Gupta SC, Chander Y, and Singh AK. "Antibiotic use in agriculture and its impact on the terrestrial environment," *Advances in Agronomy* **2005**, 87:1-54.

Kumar K, Thompson A, Singh AK, Chander Y, and Gupta SC. "Enzyme-linked immunosorbent assay for ultratrace determination of antibiotics in aqueous samples," *J Environ Qual* **2004**, *33*(1):250-256.

Kumar V, Balomajumder C, and Roy P. "Disruption of LH induced testosterone biosynthesis in testicular Leydig cells by Triclosan: Probable mechanism of action," *Toxicology* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TCN-4SY6W8N-1/1/3a5cc38e0997bcc096b7d3f7ad4b557c.

Kumar V, Chakraborty A, Viswanath G, and Roy P. "Androgenic endocrine disruptors in wastewater treatment plant effluents in India: Their influence on reproductive processes and systemic toxicity in male rats," *Toxicol Appl Pharmacol* **2008**, *226*(1):60-73. http://www.sciencedirect.com/science/article/B6WXH-4PKFH28-1/2/b706be4f88f75a20702119a4b6d7b1e8.

Kumari J, and Sahoo PK. "Effects of cyclophosphamide on the immune system and disease resistance of Asian catfish Clarias batrachus," *Fish Shellfish Immunol* **2005**, *19*(4):307-316.

Kümmerer K. "Cytotoxics in water. Comment to 'Trace enrichment, chromatographic separation and biodegradation of cytostatic compounds in surface water,' Fresenius' Journal Analytical Chemistry 361:185-191 (1998); by T. Kiffmeyer, H.-J. Gotze, M. Jursch and U. Luders," *Fres J Anal Chem* **1998**, *362*(4):428-429.

Kümmerer K. "Drugs, diagnostic agents and disinfectants in wastewater and water - a review," *Schriftenreihe des Vereins fur Wasser - Boden - und Lufthygiene* **2000**, *105*:59-71.

Kümmerer K. "Drugs in the environment: emission of drugs, diagnostic aids and disinfectants into wastewater by hospitals in relation to other sources - a review," *Chemosphere* **2001**, *45*(6-7):957-969. http://www.sciencedirect.com/science/article/B6V74-441N7NH-14/2/515f9f4b894af1eed77b48bea99d4071.

Kümmerer K, Ed., "Pharmaceuticals in the environment: sources, fate, effects and risks," 1st ed.; Springer-Verlag, Berlin, Germany, 2001, 265 pp. http://books.google.com/books?hl=en&lr=&id=A3GQsHZCmdsC&oi=fnd&pg=PA1&dq=%22K%C3 %BCmmerer%22+%22Pharmaceuticals+In+The+Environment:+Sources,+Fate,+...%22+&ots=IrmcjcI PRr&sig= DqYzi7AQn5YDgsH0UBi45HwajI. Kümmerer K. "Erratum to "Drugs in the environment: emission of drugs, diagnostic aids and disinfectants into wastewater by hospitals in relation to other sources--a review" [Chemosphere 45 (2001) 957-969]," *Chemosphere* **2002**, *48*(3):383. http://www.sciencedirect.com/science/article/B6V74-45CN7M3-8/2/e9622c9093bbe2526f4a97accc33fc50.

Kümmerer K. "Significance of antibiotics in the environment," J Antimicrob Chemo 2003, 52(1):5-7.

Kümmerer K, Ed., "Pharmaceuticals in the environment: Sources, fate, effects, and risk," 2nd ed.; Springer, Berlin, Germany, 2004, 527 pp. http://www.cplbookshop.com/contents/C772.htm.

Kümmerer K. "Resistance in the environment," J Antimicrob Chemo 2004, 54(2):311-320.

Kümmerer K. "Pharmaceuticals in the environment - scope of the book and introduction," in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 1, 3-11. http://www.cplbookshop.com/contents/C772.htm.

Kümmerer K. "Emissions from medical care units," in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 3, 27-44.

Kümmerer K. "Conclusion," in *Pharmaceuticals in the environment: Sources, fate, effects and risks,* 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 34, 499-504.

Kümmerer K. "Sustainable from the very beginning: rational design of molecules by life cycle engineering as an important approach for green pharmacy and green chemistry," *Green Chem* **2007**, *9*(8): 899-907. http://www.rsc.org/publishing/journals/GC/article.asp?doi=b618298b.

Kümmerer K, and Al-Ahmad A. "Biodegradability of the anti-tumour agents 5-fluorouracil, cytarabine, and gemcitabine: Impact of the chemical structure and synergistic toxicity with hospital effluent," *Acta Hydrochim Hydrobiol* **1997**, *25*(4):166-172.

Kümmerer K, and Al-Ahmad A. "Pharmaceuticals in the aquatic environment: input, elimination and possible effects in sewage treatment plants and surface water. Water, Sanitation and Health: Resolving conflicts between drinking-water demands ans pressures from society's wastes," International Conference, WHO Collaborating Centre for Drinking-Wat Res, Bad Elster, 24-28 November, 1998.

Kümmerer K, and Al-Ahmad A. "The cancer risk for humans related to cyclophosphamide and ifosfamide excretions emitted into surface water via hospital effluents," International Symposium on predictive oncology and therapy, Nice, Italy, 24-27 October, 1998.

Kümmerer K, Al-Ahmad A, Bertram B, and Wieler M. "Biodegradability of antineoplastic compounds in screening tests: influence of glucosidation and of stereochemistry," *Chemosphere* **2000**, *40*(7):767-773. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-37/2/290c2ab241dfd705ec33edd6e10c5113.

Kümmerer K, Al-Ahmad A, and Mersch-Sundermann V. "Biodegradability of some antibiotics, elimination of the genotoxicity and affection of wastewater bacteria in a simple test," *Chemosphere* **2000**, *40*(7):701-710. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-2Y/2/61d7285ad6cf75fdf4301de355268f79.

Kümmerer K, Alexy R, Hüttig J, and Schöll A. "Standardized tests fail to assess the effects of antibiotics on environmental bacteria," *Wat Res* **2004**, *38*(8):2111-2116.

Kummerer K, and Cunningham VL. "Summary of workshop on fate of pharmaceuticals in the environment," *Drug Information J* **2007**, *41*(2):193-194.

Kummerer K, Erbe T, Gartiser S, and Brinker L. "AOX -- Emiissions from hospitals into municipal waste water," *Chemosphere* **1998**, *36*(11):2437-2445. http://www.sciencedirect.com/science/article/B6V74-3SX809Y-1/2/9b3756dc08a0e570bf55062abd8a3b79.

Kümmerer K, Ericson J, Hannah B, Johnson A, Sedlak DL, and Weston JJ. "Environmental fate and transport of human pharmaceuticals," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 4, 111-148.

Kummerer K, and Helmers E. "Hospital effluents as a source for platinum in the environment," *Sci Total Environ* **1997**, *193*(3):179-184. http://www.sciencedirect.com/science/article/B6V78-3SVY6VV-3/2/7fed6738dc9b33b563c422d9cfea1e99.

Kümmerer K, and Helmers E. "Hospital effluents as a source of gadolinium in the aquatic environment," *Environ Sci Technol* **2000**, *34*(4):573-577.

Kummerer K, Helmers E, Hubner P, Mascart G, Milandri M, Reinthaler F, et al. "European hospitals as a source for platinum in the environment in comparison with other sources," *Sci Total Environ* **1999**, *225*(1-2):155-165. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-H/2/cbc9ca6d819b8435013fb0bbc057ea6a.

Kümmerer K, and Henninger A. "Promoting resistance by the emission of antibiotics from hospitals and households into effluent," *Clin Microbiol Infect* **2003**, *9*(12):1203-1214.

Kummerer K, Steger-Hartmann T, and Meyer M. "Biodegradability of the anti-tumour agent ifosfamide and its occurrence in hospital effluents and communal sewage," *Wat Res* **1997**, *31*(11):2705-2710. http://www.sciencedirect.com/science/article/B6V73-3SWM3W1-5/2/03b86ebf93303e0e79c272993c452f39.

Kummerer K, and Velo G. "Ecopharmacology: A New Topic of Importance in Pharmacovigilance," *Drug Safety* **2006**, *29*(5):371-373. http://www.ingentaconnect.com/content/adis/dsf/2006/0000029/00000005/art00001.

Kunz PY, and Fent K. "Estrogenic activity of UV filter mixtures," *Toxicol Appl Pharmacol* **2006**, *217*(1):86-99. http://www.sciencedirect.com/science/article/B6WXH-4KNV2KR-1/2/9f84900108c8ece5291818a2bbffb9c1.

Kunz PY, and Fent K. "Multiple hormonal activities of UV filters and comparison of in vivo and in vitro estrogenic activity of ethyl-4-aminobenzoate in fish," *Aqua Toxicol* **2006**, *79*(4):305-324. http://www.sciencedirect.com/science/article/B6T4G-4K9BSJ2-2/2/a1c9fed587d7317559bec7329d7e4551. Kunz PY, Galicia HF, and Fent K. "Assessment of hormonal activity of UV filters in tadpoles of frog Xenopus laevus at environmental concentrations," *Mar Environ Res* **2004**, *58*(1-2):431-435.

Kunz PY, Galicia HF, and Fent K. "Comparison of in vitro and in vivo estrogenic activity of UV filters in fish," *Toxicol Sci* **2006**, *90*(2):349-361.

Kunz PY, Gries T, and Fent K. "The ultraviolet filter 3-benzylidene camphor adversely affects reproducts in fathead minnow (Pimephales promelas)," *Toxicol Sci* **2006**, *93*(2):311-321. http://ir.lib.sfu.ca/retrieve/2941/etd2250.pdf.

Kupper T. "News Briefs 'Sunscreen filters through the environment'," *Environ Sci Technol* **2005**, *39*(18):377A.

Kupper T. "Belastung und Quellen organischer Schadstoffe im Klärschlamm und ihre Bedeutung im Zusammenhang mit dem Ausstieg aus der landwirtschaftlichen Klärschlammverwertung in der Schweiz [Organic contaminants in sewage sludge, their sources and their importance in the context of the withdrawal from the agricultural use of sewage sludge in Switzerland]," *Österreichische Wasserund Abfallwirtschaft* **2008**, *60*(3):45-54. http://dx.doi.org/10.1007/s00506-008-0151-4.

Kupper T, Berset JD, Etter-Holzer R, Furrer R, and Tarradellas J. "Concentrations and specific loads of polycyclic musks in sewage sludge originating from a monitoring network in Switzerland," *Chemosphere* **2004**, *54*(8):1111-1120. http://www.sciencedirect.com/science/article/B6V74-4B2CG90-1/2/348f1377d968bc41e139db0f7a84d669.

Kupper T, Plagellat C, Brandli RC, de Alencastro LF, Grandjean D, and Tarradellas J. "Fate and removal of polycyclic musks, UV filters and biocides during wastewater treatment," *Wat Res* **2006**, *40*(14):2603-2612. http://www.sciencedirect.com/science/article/B6V73-4K7WJ1K-1/2/24131c6da22ae0a0d84111a73d7d691a.

Kurauchi K, Nakaguchi Y, Tsutsumi M, Hori H, Kurihara R, Hashimoto S, et al. "In vivo visual reporter system for detection of estrogen-like substances by transgenic medaka," *Environ Sci Technol* **2005**, *39*(8):2762-2768.

Kurelec B. "The multixenobiotic resistance mechanism in aquatic organisms," *Crit Rev Toxicol* **1992**, 22(1):23-43.

Kurelec B. "The genotoxic disease syndrome," Mar Environ Res 1993, 35:341-348.

Kurelec B. "A new type of hazardous chemical: the chemosensitizers of multixenobiotic resistance," *Environ Health Perspect* **1997**, *105*(Suppl 4):855-860.

Kurelec B, Britivic S, Pivcevic B, and Smital T. "Fragility of multixenobiotic resistance in aquatic organisms, enhances the complexity of risk assessment," *Mar Environ Res* **1998**, *46*(1-5):415-419.

Kurelec B, Pivcevic B, and Müller WEG. "Determination of pollutants with multixenobiotic-resistance inhibiting properties," *Mar Environ Res* **1995**, *39*:261-265.

Kuruto-Niwa R, Ito T, Goto H, Nakamura H, Nozawa R, and Terao Y. "Estrogenic activity of the chlorinated derivatives of estrogens and flavonoids using a GFP expression system," *Environ Toxicol*

Pharmacol **2007**, *23*(1):121-128. http://www.sciencedirect.com/science/article/B6T6D-4KJTYR8-7/2/afa5a97e383e22b45ae9e52336f7bda2.

Kurwadkar ST, Adams CD, Meyer MT, and Kolpin DW. "Effects of sorbate speciation on sorption of selected sulfonamides in three loamy soils," *J Agric Food Chem* **2007**, *55*(4):1370-1376. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17300155.

Kusayama T, and Watanabe S. "Reinforcing effects of methamphetamine in planarians," *Motor Systems* **2000**, *11*(11):2511-2513.

Kuspis DA, and Krenzelok EP. "What happens to expired medications? A survey of community medication disposal," *Vet Hum Toxicol* **1996**, *38*(1):48-49. http://www.ncbi.nlm.nih.gov/pubmed/8825752.

Kuster A, Pohl K, and Altenburger R. "A fluorescence-based bioassay for aquatic macrophytes and its suitability for effect analysis of non-photosystem II inhibitors," *Environ Sci Pollut Res* **2007**, *14*(6):377-383.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17993220.

Kuster M, Jose Lopez de Alda M, and Barcelo D. "Analysis and distribution of estrogens and progestogens in sewage sludge, soils and sediments," *TrAC Trends in Anal Chem* **2004**, *23*(10-11):790-798. http://www.sciencedirect.com/science/article/B6V5H-4DR03HH-B/2/e22ea6e485e9c45e618bee97c2fd2a40.

Kuster M, López de Alda MJ, Hernando MD, Petrovic M, Martín-Alonso J, and Barceló D. "Analysis and occurrence of pharmaceuticals, estrogens, progestogens and polar pesticides in sewage treatment plant effluents, river water and drinking water in the Llobregat river basin (Barcelona, Spain)," *J Hydrol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V6C-4SN8FK6-4/1/f7dc48ea4d522034549cfe16d4b12d3b.

Kuster M, Lopez de Alda MJ, Rodriguez-Mozaz S, and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of steroid estrogens in the environment," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 2.6, 219-264.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Kvanli DM, Marisetty S, Anderson TA, Jackson WA, and Morse AN. "Monitoring Estrogen Compounds in Wastewater Recycling Systems," *Wat Air Soil Pollut* **2008**, *188*(1-4):31-40. http://www.springerlink.com/content/8081463x828r56n0/.

Kviderova J, and Henley WJ. "The effect of ampicillin plus streptomycin on growth and photosynthesis of two halotolerant chlorophyte algae," *J Appl Phycol* **2005**, *17*(4):301-307.

Kwadijk S, and Torano JS. "High-performance liquid chromatographic method with ultraviolet detection for the determination of dapsone and its hydroxylated metabolite in human plasma," *Biomedical Chromatogr* **2002**, *16*(203-208).

Kwon JW, and Armbrust KL. "Photo-isomerization of fluvoxamine in aqueous solutions," *J Pharmaceutical Biomed Anal* **2005**, *37*(4):643-648.

Kwon JW, and Armbrust KL. "Degradation of citalopram by simulated sunlight," *Environ Toxicol Chem* **2005**, *24*(7):1618-1623. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053133199.

Kwon J-W, and Armbrust KL. "Hydrolysis and photolysis of paroxetine, a selective serotonin reuptake inhibitor, in aqueous solutions," *Environ Toxicol Chem* **2004**, *23*(6):1394-1399.

Kwon J-W, and Armbrust KL. "Laboratory persistence and fate of fluoxetine in aquatic environments," *Environ Toxicol Chem* **2006**, *25*(10):2561-2568. http://dx.doi.org/10.1897%2F05-613R.1.

La Clair JJ, Bantle JA, and J. D. "Photoproducts and metabolites of a common insect growth regulator produce developmental deformities in Xenopus," *Environ Sci Technol* **1998**, *32*(10):1453-1461.

Labadie P, and Budzinski H. "Determination of steroidal hormone profiles along the Jalle d'Eysines River (near Bordeaux, France)," *Environ Sci Technol* **2005**, *39*(14):5113-5120. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i14/abs/es0484146.html.

Labadie P, and Budzinski H. "Development of an analytical procedure for determination of selected estrogens and progestagens in water samples," *Anal Bioanal Chem* **2005**, *381*(6):1199-1205.

Labadie P, and Budzinski H. "Alteration of steroid hormone profile in juvenile turbot (Psetta maxima) as a consequence of short-term exposure to 17 alpha-ethynylestradiol," *Chemosphere* **2006**, *64*(8):1274-1286. <Go to ISI>://CCC:000240581000004.

Labadie P, Cundy AB, Stone K, Andrews M, Valbonesi S, and Hill EM. "Evidence for the migration of steroidal estrogens through river bed sediments," *Environ Sci Technol* **2007**, *41*(12):4299-4304.

Labadie P, and Hill EM. "Analysis of estrogens in river sediments by liquid chromatographyelectrospray ionisation mass spectrometry: Comparison of tandem mass spectrometry and time-offlight mass spectrometry," *J Chromatogr A* **2007**, *1141*(2):174-181. http://www.sciencedirect.com/science/article/B6TG8-4MKKCN5-9/2/07eff380d0cae4b003988eedc7704d31.

Labare MP, and Alexander M. "Biodegradation of sucralose, a chlorinated carbohydrate in samples of natural environments," *Environ Toxicol Chem* **1993**, *12*(5):797-804. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1552-8618%281993%2912%5B797%3ABOSACC%5D2.0.CO%3B2.

Labare MP, and Alexander M. "Microbial cometabolism of sucralose, a chlorinated disaccharide, in environmental samples," *Appl Microbiol Biotech* **1994**, *42*(1):173-178.

Lacey C, McMahon G, Bones J, Barron L, Morrissey A, and Tobin JM. "An LC-MS method for the determination of pharmaceutical compounds in wastewater treatment plant influent and effluent samples," *Talanta* **2008**, *75*(4):1089-1097. http://www.sciencedirect.com/science/article/B6THP-4RKTN7Y-5/2/bef156aa86d8fa7a02b7954ee5e07171.

Ladewig V, Jungmann D, Kohler HR, Schirling M, Triebskorn R, and Nagel R. "Population structure and dynamics of Gammarus fossarum (Amphipoda) upstream and downstream from effluents of sewage treatment plants," *Arch Environ Contam Toxicol* **2006**, *50*(3):370-383.

Laenge R, Steger-Hartmann T, and Schweinfurth H. "The environmental risk assessment of human pharmaceuticals in the overall EU regulatory affairs process," *Reg Toxicol Pharmacol* **2006**, *45*(3):223-228.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16716476.

Lagadic L, and Caquet T. "Invertebrates in testing of environmental chemicals: are they alternatives?," *Environ Health Perspect* **1998**, *106 Suppl* 2:593-611. http://www.ncbi.nlm.nih.gov/pubmed/9599707?dopt=Citation.

Lagadic L, Coutellec M-A, and Caquet T. "Endocrine disruption in aquatic pulmonate molluscs: few evidences, many challenges," *Ecotoxicology* **2007**, *16*(1):45-59. http://dx.doi.org/10.1007/s10646-006-0114-0.

Lagana A, Bacaloni A, De Leva I, Faberi A, Fago G, and Marino A. "Analytical methodologies for determining the occurrence of endocrine disrupting chemicals in sewage treatment plants and natural waters," *Anal Chimica Acta* **2004**, *501*(1):79-88. http://www.sciencedirect.com/science/article/B6TF4-4B0P9TJ-8/2/0ae79f5c22dd09361aaf3f92c2b90742.

Lagana A, Bacaloni A, Fago G, and Marino A. "Trace analysis of estrogenic chemicals in sewage effluent using liquid chromatography combined with tandem mass spectrometry," *Rapid Commun Mass Sectrom* **2000**, *14*(6):401-407.

Lagana A, Fago G, Marino A, and Santarelli D. "Liquid chromatography tandem mass spectrometry applied to the analysis of natural and synthetic steroids in environmental waters," *Anal Lett* **2001**, *34*(6):913-926.

Lahav R, Fareleira P, Nejidat A, and Abeliovich A. "The identification and characterization of osmotolerant yeast isolates from chemical wastewater evaporation ponds," *Microbial Ecol* **2002**, *43*:388-396.

Lai EPC, and Feng SY. "Solid phase extraction - Non-aqueous capillary electrophoresis for determination of metformin, phenformin and glyburide in human plasma "*J Chromatogr B: Biomed Sci Applications* **2006**, *843*:94-99.

Lai H-T, Chien Y-H, and Lin J-S. "Long-term transformation of oxolinic acid in water from an eel pond," *Aquaculture* **2008**, *275*(1-4):96-101. http://www.sciencedirect.com/science/article/B6T4D-4RNJ8KJ-3/2/56c78cb83cf335a254ce1c68640f2d34.

Lai H-T, and Hou J-H. "Light and Microbial Effects on the Transformation of Four Sulfonamides in Eel Pond Water and Sediment," *Aquaculture* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T4D-4SXH9WY-1/1/4844d4025ed384b2fb204a14e8245bb7.

Lai H-T, Hou J-H, Su C-I, and Chen C-L. "Effects of chloramphenicol, florfenicol, and thiamphenicol on growth of algae Chlorella pyrenoidosa, Isochrysis galbana, and Tetraselmis chui," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4SBYYGM-1/1/282ecb4982bc79b879c1a7779cff2e26.

Lai KM, Johnson KL, Scrimshaw MD, and Lester JN. "Binding of waterborne steroid estrogens to solid phases in river and estuarine systems," *Environ Sci Technol* **2000**, *34*(18):3890-3894.

Lai KM, Scrimshaw MD, and Lester JN. "The Effects of Natural and Synthetic Steroid Estrogens in Relation to their Environmental Occurrence," *Crit Rev Toxicol* **2002**, *32*(2):113-132. http://www.sciencedirect.com/science/article/B6WRN-45KV67C-2/2/f0c471ea397cba74155d2d0adea10006.

Lai KM, Scrimshaw MD, and Lester JN. "Prediction of the bioaccumulation factors and body burden of natural and synthetic estrogens in aquatic organisms in the river systems," *Sci Total Environ* **2002**, *289*(1-3):159-168. http://www.sciencedirect.com/science/article/B6V78-444F82N-G/1/f641c1ff833fb19a3539bf37695c1d02.

Laird BD, Brain RA, Johnson DJ, Wilson CJ, Sanderson H, and Solomon KR. "Toxicity and hazard of a mixture of SSRIs to zooplankton communities evaluated in aquatic microcosms," *Chemosphere* **2007**, *69*(6):949-954. http://www.sciencedirect.com/science/article/B6V74-4P2J322-4/1/ed9b4d3b6a96a75e0300d35c75277bb7.

Lajeunesse A, and Gagnon C. "Determination of acidic pharmaceutical products and carbamazepine in roughly primary-treated wastewater by solid-phase extraction and gas chromatography-tandem mass spectrometry," *Internat J Environ Anal Chem* **2007**, *87*(8):565-578. http://www.informaworld.com/smpp/content~content=a779253511~db=all.

Lajeunesse A, Gagnon C, and Sauve S. "Determination of Basic Antidepressants and Their N-Desmethyl Metabolites in Raw Sewage and Wastewater Using Solid-Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry," *Anal Chem* **2008**, *In Press* http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac800162q.

Lalko J, and Api AM. "Investigation of the dermal sensitization potential of various essential oils in the local lymph node assay," *Food Chem Toxicol* **2006**, *44*(5):739-746. http://www.sciencedirect.com/science/article/B6T6P-4HP6GFG-2/2/137c5ec4c9b1b62976bcc888d0ce35aa.

Lalko J, Isola D, and Api AM. "Ethanol and diethyl phthalate: Vehicle effects in the local lymph node assay," *Internat J Toxicol* **2004**, *23*:171-177.

Lalumera GM, Calamari D, Galli P, Castiglioni S, Crosa G, and Fanelli R. "Preliminary investigation on the environmental occurrence and effects of antibiotics used in aquaculture in Italy," *Chemosphere* **2004**, *54*(5):661-668. http://www.sciencedirect.com/science/article/B6V74-49NVDP6-1/2/32f5c3580688299a96016e7fd85d9d6e.

Lam MW, and Mabury SA. "Photodegradation of the pharmaceuticals atorvastatin, carbamazepine, levofloxacin, and sulfamethoxazole in natural waters," *Aqua Sci* **2005**, *67*(2):177-188.

Lam MW, Tantuco K, and Mabury SA. "PhotoFate: A New Approach in Accounting for the Contribution of Indirect Photolysis of Pesticides and Pharmaceuticals in Surface Waters," *Environ Sci Technol* **2003**, *37*(5):899-907. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es025902+.

Lam MW, Young CJ, Brain RA, Johnson DJ, Hanson MA, Wilson CJ, et al. "Aquatic persistence of eight pharmaceuticals in a microcosm study," *Environ Toxicol Chem* **2004**, *23*(6):1431-1440.

Lam MW, Young CJ, and Mabury SA. "Aqueous Photochemical Reaction Kinetics and Transformations of Fluoxetine," *Environ Sci Technol* **2005**, *39*(2):513-522. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0494757.

Lamb J, Crawford ED, Peck D, Modell JW, Blat IC, Wrobel MJ, et al. "The connectivity map: using gene-expression signatures to connect small molecules, genes, and disease," *Science* **2006**, *313*(29 September):1929-1935.

Lambropoulou DA, Giokas DL, Sakkas VA, Albanis TA, and Karayannis MI. "Gas chromatographic determination of 2-hydroxy-4-methoxybenzophenone and octyldimethyl-p-aminobenzoic acid sunscreen agents in swimming pool and bathing waters by solid-phase microextraction," *J Chromatogr A* **2002**, *967*(2):243-253. http://www.sciencedirect.com/science/article/B6TG8-469GJCK-7/2/e86b0446da379cdbdac1e14fbd7ef0ef.

Lamshöft M, Sukul P, Zühlke S, and Spiteller M. "Metabolism of 14C-labelled and non-labelled sulfadiazine after administration to pigs," *Anal Bioanal Chem* **2007**, *388*(8):1733-1745. http://dx.doi.org/10.1007/s00216-007-1368-y.

Lange A, Katsu Y, Ichikawa R, Paull GC, Chidgey LL, Coe TS, et al. "Altered sexual development in roach (Rutilus rutilus) exposed to environmental concentrations of the pharmaceutical 17aethinylestradiol and associated expression dynamics of aromatases and estrogen receptor," **2008**, *In press* http://toxsci.oxfordjournals.org/cgi/reprint/kfn151v1.

Lange F, Cornelissen S, Kubac D, Sein MM, von Sonntag J, Hannich CB, et al. "Degradation of macrolide antibiotics by ozone: A mechanistic case study with clarithromycin," *Chemosphere* **2006**, *65*(1):17-23. http://www.sciencedirect.com/science/article/B6V74-4JVTC5K-6/2/17127f981657d0a4510527d40de17b0f.

Lange IG, Daxenberger A, Schiffer B, Witters H, Ibarreta D, and Meyer HHD. "Sex hormones originating from different livestock production systems: fate and potential disrupting activity in the environment," *Anal Chimica Acta* **2002**, *473*(1-2):27-37. http://www.sciencedirect.com/science/article/B6TF4-46MK6N9-1/2/cc0679b371c4208a4ed19444ac8ad482.

Lange R, and Dietrich D. "Environmental risk assessment of pharmaceutical drug substances-conceptual considerations," *Toxicol Lett* **2002**, *131*(1-2):97-104. http://www.sciencedirect.com/science/article/B6TCR-45BHHP3-1/2/abcbe0d2a5318ee602a235ac794f2162.

Lange R, Hutchinson TH, Croudace CP, Siegmund F, Schweinfurth H, Hampe P, et al. "Effects of the synthetic estrogen 17α-ethinylestradiol on the life-cycle of the fathead minnow (pimephales

promelas)," *Environ Toxicol Chem* **2001**, *20*(6):1216-1227. http://dx.doi.org/10.1897%2F1551-5028%282001%29020%3C1216%3AEOTSEE%3E2.0.CO%3B2.

Langer R, "Improving drug delivery," The Scientist September 13, 2004.

Langley C, Marriott J, Mackridge A, and Daniszewski R. "An Analysis of Returned Medicines in Primary Care," *Pharm World Sci* **2005**, *27*(4):296-299. http://www.springerlink.com/content/ph077q44363k6463/.

Langston WJ, Burt GR, and Chesman BS. "Feminisation of male clams Scrobicularia plana from estuaries in Southwest UK and its induction by endocrine-disrupting chemicals," *Mar Ecol - Progress Series* **2007**, *333*:173-184.

Langston WJ, Burt GR, Chesman BS, and Vane CH. "Partitioning, bioavailability and effects of oestrogens and xeno-oestrogens in the aquatic environment," *J Marine Biol Assoc United Kingdom* **2005**, *85*(1):1-31.

Langworthy NG, Renz A, Mackenstedt U, Henkle-Duhrsen K, Bronsvoort MBD, Tanya VN, et al. "Macrofilaricidal activity of tetracycline against the filarial nematode Onchocerca ochengi: elimination of Wolbachia precedes worm death and suggests a dependent relationship," *Proc Royal Soc London Series B - Biolog Sci* **2000**, 267:1063-1069.

Lanzky PF, and Halting-Sorensen B. "The toxic effect of the antibiotic metronidazole on aquatic organisms," *Chemosphere* **1997**, *35*(11):2553-2561. http://www.sciencedirect.com/science/article/B6V74-3T7DWSF-B/2/e700e353b35af45021ea7a7a6017b7d3.

Lapen DR, Topp E, Metcalfe CD, Li H, Edwards M, Gottschall N, et al. "Pharmaceutical and personal care products in tile drainage following land application of municipal biosolids," *Sci Total Environ* **2008**, *399*(1-3):50-65. http://www.sciencedirect.com/science/article/B6V78-4SF9C4R-1/1/d8ff02c05c8b3eedc2a78403f0a9786d.

Lappin-Scott HM, Holt G, and Bull AT. "Microbial transformation of 1,6-dichloro-1,6-dideoxy- β -D-fructofuranosyl-4-chloro-4-deoxy- α -D-galactopyranoside (TGS) by soil populations," *Mircen J* **1987**, *3*(2):95-102. http://www.springerlink.com/content/t0j21nr2805066t7/.

Lardot C, Steward W, Van Glabbeke M, and Armand JP. "Scientific review of EORTC trials: the functioning of the New Treatment Committee and Protocol Review Committee," *European J Cancer* **2002**, *38*:S24-S30.

Larkin P, Villeneuve DL, Knoebl I, Miracle AL, Carter BJ, Liu L, et al. "Development and validation of a 2,000-gene microarray for the fathead minnow (Pimephales Promelas)," *Environ Toxicol Chem* **2007**, *26*(7):1497-1506.

Larsbo M, Fenner K, Stoob K, Burkhardt M, Abbaspour K, and Stamm C. "Simulating Sulfadimidine Transport in Surface Runoff and Soil at the Microplot and Field Scale," *J Environ Qual* **2008**, *37*(3):788-797. http://jeq.scijournals.org/cgi/content/abstract/joenq;37/3/788.

Larsen M, Hansen K, Henriksen P, and Baatrup E. "Male zebrafish (Danio rerio) courtship behaviour resists the feminising effects of 17α-ethinyloestradiol - morphological sexual characteristics do not," *Aqua Toxicol* **2008**, *87*(4):234-244. http://www.ncbi.nlm.nih.gov/pubmed/18359522.

Larsen TA, Lienert J, Joss A, and Siegrist H. "How to avoid pharmaceuticals in the aquatic environment," *J Biotechnol* **2004**, *113*(1-3):295-304.

Larsen TA, Peters I, Alder A, Maurer REM, and Muncke J. "Re-engineering the toilet for sustainable wastewater management," *Environ Sci Technol* **2001**, *35*(9):192A-197A. http://pubs.acs.org/subscribe/journals/esthag-a/35/special/larsen/09larsen.html.

Larsson DGJ, Adolfsson-Erici M, Parkkonen J, Pettersson M, Berg AH, Olsson PE, et al. "Ethinyloestradiol - an undesired fish contraceptive?," *Aqua Toxicol* **1999**, *45*(2-3):91-97.

Larsson DGJ, de Pedro C, and Paxeus N. "Effluent from drug manufactures contains extremely high levels of pharmaceuticals," *J Hazardous Mat* **2007**, *148*(3):751-755. http://www.sciencedirect.com/science/article/B6TGF-4P4FV8H-6/2/06a734d63896d46030defc6da689c1cb.

Larsson DGJ, Fredriksson S, Sandblom E, Paxeus N, and Axelsson M. "Is heart rate in fish a sensitive indicator to evaluate acute effects of [beta]-blockers in surface water?," *Environ Toxicol Pharmacol* **2006**, *22*(3):338-340. http://www.sciencedirect.com/science/article/B6T6D-4K6CPS6-1/2/a536181da7ae3284ede3011899206b36.

Larsson J, Norrgren L, and Forlin L. "Hormones and endocrine-disrupting substances in the environment," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 6, 84-102. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Lasky T, Sun W, Kadry A, and Hoffman MK. "Mean total arsenic concentrations in chicken 1989-2000 and estimated exposures for consumers of chicken," *Environ Health Perspect* **2004**, *12*(1):18-21.

Laszlo JA, Compton DL, Eller FJ, Taylor SL, and Isbell TA. "Packed-bed bioreactor synthesis of feruloylated monoacyl- and diacylglycerols: Clean production of a "green" sunscreen," *Green Chem* **2003**, *5*(4):382-386.

Latch DE. "Environmental photochemistry: studies on the degradation of pharmaceutical pollutants and the michroheterogeneous distribution of singlet oxygen," Doctoral Dissertation, University of Minnesota, Minneapolis/St. Paul, Minnesota 2005. 256 pp.

Latch DE, and McNeill K. "Microheterogeneity of singlet oxygen distributions in irradiated humic acid solutions," *Science* **2006**, *311*(5768):1743-1747.

Latch DE, Packer JL, Arnold WA, and McNeill K. "Photochemical conversion of triclosan to 2,8dichlorodibenzo-p-dioxin in aqueous solution," *J Photochem Photobiol A: Chem* **2003**, *158*(1):63-66. Latch DE, Packer JL, Stender BL, VanOverbeke J, Arnold WA, and McNeill K. "Aqueous photochemistry of triclosan: Formation of 2,4-dichlorophenol, 2,8-dichlorodibenzo-p-dioxin, and oligomerization products," *Environ Toxicol Chem* **2005**, *24*(3):517-525.

Latch DE, Stender BL, Packer JL, Arnold WA, and McNeill K. "Photochemical Fate of Pharmaceuticals in the Environment: Cimetidine and Ranitidine," *Environ Sci Technol* **2003**, *37*(15):3342-3350. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0340782.

Lathers CM. "Endocrine disruptors: A new scientific role for clinical pharmacologists? Impact on human health, wildlife, and the environment," *J Clin Pharmacol* **2002**, *42*(1):7-23.

Lau HYK, and Mak KL. "A unified framework for the development of automated manufacturing systems supervisory software for the pharmaceutical industry," *Internat J Computer Integrated Manufacturing* **1999**, *12*:193-210.

Lave LB. "Hormesis: policy implications," *J Appl Toxicol* **2000**, *20*(2):141-145. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<141::AID-JAT645>3.0.CO;2-0.

Lave LB. "Hormesis: Implications for public policy regarding toxicants," *Ann Rev Public Health* **2001**, 22:63-68.

Laville N, Aït-Aïssa S, Casellas C, and Porcher J-M. "Application of in vitro models for studying pharmaceuticals hazard in fish," *Environment, Risques & Sante* **2006**, *5*(4):284-289. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/00/resume.md?type=text.html.

Laville N, Ait-Aissa S, Gomez E, Casellas C, and Porcher JM. "Effects of human pharmaceuticals on cytotoxicity, EROD activity and ROS production in fish hepatocytes," *Toxicology* **2004**, *196*(1-2):41-55. http://www.sciencedirect.com/science/article/B6TCN-4B724P9-4/2/05414ec5b7efeae60ff7b97cee45967c.

Lawler DM, Petts GE, Foster IDL, and Harper S. "Turbidity dynamics during spring storm events in an urban headwater river system: The Upper Tame, West Midlands, UK," *Sci Total Environ* **2006**, *360*(1-3):109-126. http://www.sciencedirect.com/science/article/B6V78-4J6246J-1/1/386737046612ea40112109699ddd88a5.

Lawrence J, Zhu B, Swerhone G, Topp E, Roy J, Wassenaar L, et al. "Community-level assessment of the effects of the broad-spectrum antimicrobial chlorhexidine on the outcome of river microbial biofilm development," *Appl Environ Microbiol* **2008**, *74*(11):3541-3550. http://aem.asm.org/cgi/content/abstract/74/11/3541.

Lawrence JR, Swerhone GDW, Topp E, Korber DR, Neu TR, and Wassenaar LI. "Structural and functional responses of river biofilm communities to the nonsteroidal anti-inflammatory diclofenac," *Environ Toxicol Chem* **2007**, *26*(4):573-583. http://www.ncbi.nlm.nih.gov/pubmed/17447540.

Lawrence JR, Swerhone GDW, Wassenaar LI, and Neu TR. "Effects of selected pharmaceuticals on riverine biofilm communities," *Canadian J Microbiol* **2000**, *51*(8):655-669.

Laxminarayan R, and Brown GM. "Economics of Antibiotic Resistance: A Theory of Optimal Use," *J Environ Econ Management* **2001**, *42*(2):183-206.

http://www.sciencedirect.com/science/article/B6WJ6-458179H-F/2/184e0ce57367b6731ea8d49d10a07272.

Layton AC, Gregory BW, Seward JR, Schultz TW, and Sayler GS. "Mineralization of steroidal hormones by biosolids in wastewater treatment systems in Tennessee USA," *Environ Sci Technol* **2000**, *34*(18):3925-3931.

Lazarou J, Pomeranz BH, and Corey PN. "Incidence of Adverse Drug Reactions in Hospitalized Patients: A Meta-analysis of Prospective Studies," *J Am Med Assoc* **1998**, *279*(15):1200-1205. http://jama.ama-assn.org/cgi/content/abstract/279/15/1200.

Le Bris H, and Pouliquen H. "Experimental study on the bioaccumulation of oxytetracycline and oxolinic acid by the blue mussel (Mytilus edulis). An evaluation of its ability to bio-monitor antibiotics in the marine environment," *Mar Pollut Bull* **2004**, *48*(5-6):434-440. http://www.sciencedirect.com/science/article/B6V6N-49M6M9J-4/2/a25de1a7293bf454e9f9f153a2d4ddbc.

Le Bris H, Pouliquen H, Debernardi JM, Buchet V, and Pinault L. "Preliminary-Study on the Kinetics of Oxytetracycline in Shellfish Exposed to An Effluent of A Land-Based Fish Farm - Experimental Approach," *Mar Environ Res* **1995**, *40*(2):171-180.

Le Noir M, Guieysse B, and Mattiasson B. "Removal of trace contaminants using molecularly imprinted polymers," *Wat Sci Technol* **2006**, *53*(11):205-212.

Le Noir M, Lepeuple A-S, Guieysse B, and Mattiasson B. "Selective removal of 17[beta]-estradiol at trace concentration using a molecularly imprinted polymer," *Wat Res* **2007**, *41*(12):2825-2831. http://www.sciencedirect.com/science/article/B6V73-4NM5S37-3/2/21d6204475f5405b2f7391dd31a2a85c.

Le Noir M, Plieva F, Hey T, Guieysse B, and Mattiasson B. "Macroporous molecularly imprinted polymer/cryogel composite systems for the removal of endocrine disrupting trace contaminants," *J Chromatogr A* **2007**, *1154*(1-2):158-164. http://www.sciencedirect.com/science/article/B6TG8-4N9P4N9-4/2/1737bf80bd40d433f11aa7a0b7d785dc.

Le Page Y, Scholze M, Kah O, and Pakdel F. "Assessment of Xenoestrogens Using Three Distinct Estrogen Receptors and the Zebrafish Brain Aromatase Gene in a Highly Responsive Glial Cell System," *Environ Health Perspect* **2006**, *114*(5):752-758. http://www.ehponline.org/docs/2005/8141/abstract.html.

Le TX, and Munekage Y. "Residues of selected antibiotics in water and mud from shrimp ponds in mangrove areas in Viet Nam," *Mar Pollut Bull* **2004**, *49*(11-12):922-929. http://www.sciencedirect.com/science/article/B6V6N-4D2FH4Y-2/2/f76372f137976da4e6db71f8a1437644.

Le TX, Munekage Y, and Kato S-i. "Antibiotic resistance in bacteria from shrimp farming in mangrove areas," *Sci Total Environ* **2005**, *349*(1-3):95-105. http://www.sciencedirect.com/science/article/B6V78-4FNDRY1-4/2/c708d174380987b3396d386db6805db8. Leaños-Castañeda O, and Van Der Kraak G. "Functional characterization of estrogen receptor subtypes, ER[alpha] and ER[beta], mediating vitellogenin production in the liver of rainbow trout," *Toxicol Appl Pharmacol* **2007**, *224*(2):116-125. http://www.sciencedirect.com/science/article/B6WXH-4P4295B-3/1/9bac45f3485328f25b605bb3a69cd0d9.

Lear JC, Maillard JY, Dettmar PW, Goddard PA, and Russell AD. "Chloroxylenol- and triclosantolerant bacteria from industrial sources--susceptibility to antibiotics and other biocides," *Internat Biodeterior Biodegrad* **2006**, *57*(1):51-56. http://www.sciencedirect.com/science/article/B6VG6-4HSXVV7-1/2/e72e1b9e18f045d790167849e8d52c0c.

Learn S. "Sewage tradeoff: Add overflow, help tributaries," The Oregonian, Thursday 22 April 1999 http://www.oregonlive.com/news/99/04/st042215.html.

Lebaron P, Servais P, Troussellier M, Courties C, Muyzer G, Bernard L, et al. "Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: Changes in abundances, activity and composition," *FEM Microbiol Ecol* **2001**, *34*:255-266.

Lebkowska M, and Zaleska-Radziwill M. "Endocrine disruptors - Ecotoxicological assays," *Arch Environ Protect* **2007**, *33*(3):81-88.

LeBlanc DA. "Applicability of the "Threshold of toxicological concern" concept to residue limits for cleaning validation," *Am Pharm Rev* **2008**, *11*(1):93-97.

LeBlanc GA, Mu X, and Rider CV. "Embryotoxicity of the alkylphenol degradation product 4nonylphenol to the crustacean Daphnia magna," *Environ Health Perspect* **2000**, *108*(12):1133-1138. http://www.ncbi.nlm.nih.gov/pubmed/11133392?dopt=Citation.

LeCluyse EL. "Pregnane X receptor: Molecular basis for species differences in CYP3A induction by xenobiotics," *Chemico - Biolog Interactions* **2001**, *134*:283-289.

Lecouturier D, Rochex A, and Lebeault J. "The mineralization of 5-amino-2,4,6-triiodoisophthalic acid by a two-stage fixed-bed reactor," *Wat Res* **2008**, *42*(10-11):2491-2498. http://www.ncbi.nlm.nih.gov/entrez/utils/fref.fcgi?PrId=3048&itool=AbstractPlus-def&uid=18342906&db=pubmed&url=http://linkinghub.elsevier.com/retrieve/pii/S0043-1354(08)00069-9.

Lecouturier D, Rochex A, and Lebeault JM. "Enrichment and properties of an anaerobic mixed culture that reductively deiodinates 5-amino-2,4,6-triiodoisophthalic acid, an X-ray contrast agent precursor," *Appl Microbiol Biotech* **2003**, *63*(5-6):550-556.

Ledford H. "The farmyard drug store," *Nature* 2006, 443(107):16-17.

Lee C, Hwan Jeon S, Gyun Na J, and Park K. "Sequence analysis of choriogenin h gene of medaka (oryzias latipes) and mRNA expression," *Environ Toxicol Chem* **2002**, *21*(8):1709-1714. http://dx.doi.org/10.1897%2F1551-5028%282002%29021%3C1709%3ASAOCHG%3E2.0.CO%3B2.

Lee C, Jeon SH, Na J-G, Choi Y-J, and Park K. "Sensitivities of mRNA Expression of Vitellogenin, Choriogenin and Estrogen Receptor by Estrogenic Chemicals in Medaka, Oryzias latipes," *J Health Sci* **2002**, *48*(5):441-445. http://sciencelinks.jp/j-east/article/200222/000020022202A0805646.php.

Lee CJ, and Rasmussen TJ. "Occurrence of organic wastewater compounds in effluent-dominated streams in Northeastern Kansas," *Sci Total Environ* **2006**, *371*(1-3):258-269. http://www.sciencedirect.com/science/article/B6V78-4KRY3KF-1/2/ceea51744416649b085f78c6e53a01ef.

Lee HB, and Peart TE. "Organic contaminants in Canadian municipal sewage sludge. Part I. Toxic or endocrine-disrupting phenolic compounds," *Wat Qual Res J Canada* **2002**, *37*(4):681-696.

Lee H-B, and Liu D. "Degradation of 17 beta-estradiol and its metabolites by sewage bacteria," *Wat Air Soil Pollut* **2002**, *134*(1-4):353-368.

Lee H-B, Peart TE, Chan J, and Gris G. "Occurrence of endocrine-disrupting chemicals in sewage and sludge samples in Toronto, Canada," *Wat Qual Res J Canada* **2004**, *39*(1):57-63.

Lee H-B, Peart TE, and Sarafin K. "Occurrence of polycyclic and nitro musk compounds in Canadian sludge and wastewater samples," *Wat Qual Res J Canada* **2003**, *38*(4):683-702.

Lee H-B, Peart TE, and Svoboda ML. "Determination of endocrine-disrupting phenols, acidic pharmaceuticals, and personal-care products in sewage by solid-phase extraction and gas chromatography-mass spectrometry," *J Chromatogr A* **2005**, *1094*(1-2):122-129. http://www.sciencedirect.com/science/article/B6TG8-4H8761G-9/2/297317e7eb1a6e35509a885482654572.

Lee H-B, Peart TE, and Svoboda ML. "Determination of ofloxacin, norfloxacin, and ciprofloxacin in sewage by selective solid-phase extraction, liquid chromatography with fluorescence detection, and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2007**, *1139*(1):45-52. http://www.sciencedirect.com/science/article/B6TG8-4MHPHP9-1/2/b1b796c3598b645a35ccd188cb2a2694.

Lee H-B, Sarafin K, and Peart TE. "Determination of [beta]-blockers and [beta]2-agonists in sewage by solid-phase extraction and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2007**, *1148*(2):158-167. http://www.sciencedirect.com/science/article/B6TG8-4N8M88C-9/2/68a6570fc0b4e0c762abda51b1935abc.

Lee J, Lee BC, Ra JS, Cho J, Kim IS, Chang NI, et al. "Comparison of the removal efficiency of endocrine disrupting compounds in pilot scale sewage treatment processes," *Chemosphere* **2008**, *71*(8):1582-1592. http://www.sciencedirect.com/science/article/B6V74-4RFD3MF-1/2/ba88b35cb8450d56717b8c3006a5c732.

Lee J-H, and Landrum PF. "Development of a multi-component damage assessment model (MDAM) for time-dependent mixture toxicity with toxicokinetic interactions," *Environ Sci Technol* **2006**, *40*(4):1341-1349.

Lee LS, Carmosini N, Sassman SA, Dion HM, and Sepulveda MS. "Agricultural contributions of antimicrobials and hormones on soil and water quality," *USAA Advances in Agronomy* **2007**, *93*(1):1-68.

Lee LS, Strock TJ, Sarmah AK, and Rao PSC. "Sorption and dissipation of testosterone, estrogens, and their primary transformation products in soils and sediment," *Environ Sci Technol* **2003**, *37*(18):4098-4105.

Lee M-R, Lin C-Y, Li Z-G, and Tsai T-F. "Simultaneous analysis of antioxidants and preservatives in cosmetics by supercritical fluid extraction combined with liquid chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1120*(1-2):244-251. http://www.sciencedirect.com/science/article/B6TG8-4JCCJTC-1/2/b3ed823a8e02d87a1ec4a54e52c98e4e.

Lee RB, Sarafin K, Peart TE, and Svoboda ML. "Acidic pharmaceuticals in sewage - Methodology, stability test, occurrence, and removal from Ontario samples," *Wat Qual Res J Canada* **2003**, *38*(4):667-682.

Lee RF. "Annelid cytochrome P-450," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **1998**, *121*:173-179. http://www.ingentaconnect.com/content/els/07428413/1998/00000121/00000001/art10037

http://dx.doi.org/10.1016/S0742-8413(98)10037-3.

Lee S-B, and Choi J. "Effects of bisphenol A and ethynyl estradiol exposure on enzyme activities, growth and development in the fourth instar larvae of Chironomus riparius (Diptera, Chironomidae)," *Ecotoxicol Environ Safety* **2007**, *68*(1):84-90. http://www.sciencedirect.com/science/article/B6WDM-4M57H6N-1/1/a6d6e93e26ca92bdc31fcf8aeab0e2ec.

Lee S-M, Lee S-B, Park C-H, and Choi J. "Expression of heat shock protein and hemoglobin genes in Chironomus tentans (Diptera, chironomidae) larvae exposed to various environmental pollutants: A potential biomarker of freshwater monitoring," *Chemosphere* **2006**, *65*(6):1074-1081. http://www.sciencedirect.com/science/article/B6V74-4JS1MRP-1/1/7c4824822e247472e6f2723e23c5a4c5.

Lee W, Li Z-H, Vakulenko S, and Mobashery S. "A light-inactivated antibiotic," *J Med Chem* **2000**, *43*(1):128-132. https://pubs.acs.org/secure/login?url=http%3A%2F%2Fpubs.acs.org%2Fcgi-bin%2Farticle.cgi%2Fjmcmar%2F2000%2F43%2Fi01%2Fpdf%2Fjm980648a.pdf.

Lee WY. "Copepods and Ichthyoplankton: Laboratory Studies of Pharmaceutical Waste Toxicity," in *Wastes in the Ocean*, John Wiley and Sons; New York, N.Y., 1983, 235-250. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707408&q=+pha rmaceutical+disposal&uid=790088066&setcookie=yes.

Lee Y, Yoon J, and vonGunten U. "Kinetics of the Oxidation of Phenols and Phenolic Endocrine Disruptors during Water Treatment with Ferrate (Fe(VI))," *Environ Sci Technol* **2005**, *39*(22):8978-8984. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es051198w.

Lee YH, Jung WS, Choi YR, Oh JS, Jang SD, Son YG, et al. "Application of Pulsed Corona Induced Plasma Chemical Process to an Industrial Incinerator," *Environ Sci Technol* **2003**, *37*(11):2563-2567. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0261123.

Lee Y-J, Lee S-E, Lee DS, and Kim Y-H. "Risk assessment of human antibiotics in Korean aquatic environment," *Environ Toxicol Pharmacol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T6D-4S73RDT-1/1/f93d07b97fc4b9f92c05f1f0c4c1961c.

Lee YM, Oleszkiewicz JA, Cicek N, and Londry KL. "Endocrine disrupting compounds (EDC) in municipal wastewater treatment: A need for mass balance," *Environ Technol* **2004**, *25*(6):635-645.

Legrand M, Lam R, SousaPassos CJ, Mergler D, Salin ED, and Chan HM. "Analysis of Mercury in Sequential Micrometer Segments of Single Hair Strands of Fish-Eaters," *Environ Sci Technol* **2007**, *41*(2):593-598. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es061823c.

Lehman-McKeeman LD, Caudill D, Vassallo JD, Pearce RE, Madan A, and Parkinson A. "Effects of musk xylene and musk ketone on rat hepatic cytochrome P450 enzymes," *Toxicol Lett* **1999**, *111*(1-2):105-115. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-9/2/294f65c53f5d085f8bb93397e22d2ccd.

Lehmann RG, Varaprath S, and Frye CL. "Degradation of silicone polymers in soil," *Environ Toxicol Chem* **1994**, *13*(7):1061-1064.

Lei H, and Snyder SA. "3D QSPR models for the removal of trace organic contaminants by ozone and free chlorine," *Wat Res* **2007**, *41*(18):4051-4060. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17588635.

Lemini C, Hernandez A, Jaimez R, Franco Y, Avila ME, and Castell A. "Morphometric analysis of mice uteri treated with the preservatives methyl, ethyl, propyl, and butylparaben," *Toxicol Industrial Health* **2004**, *20*(6-10):123-132.

Lemini C, Jaimez R, Avila ME, Franco Y, Larrea F, and Lemus AE. "In vivo and in vitro estrogen bioactivities of alkyl parabens," *Toxicol Industrial Health* **2003**, *19*(2-6):69-79.

Lemmen SW, Hafner H, Reinert RR, Zolldann D, Kummerer K, and Lutticken R. "Comparison of serum bactericidal activity of ceftazidime, ciprofloxacin and meropenem against Stenotrophomonas maltophilia," *J Antimicrob Chemo* **2001**, *47*(1):118-120. http://jac.oxfordjournals.org.

Lemonick MD, "In our streams: Prozac and pesticides," *Time* Aug 25, 2003, 51-. http://www.time.com/time/magazine/article/0,9171,1005488,00.html.

Lemus JA, Blanco G, Grande J, Arroyo B, Garcia-Montijano M, and Martinez F. "Antibiotics threaten wildlife: circulating quinolone residues and disease in Avian scavengers," *PLoS Med* **2008**, *16*(3(1)):e1444. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2186382.

Lenz K, Koellensperger G, Hann S, Weissenbacher N, Mahnik SN, and Fuerhacker M. "Fate of cancerostatic platinum compounds in biological wastewater treatment of hospital effluents," *Chemosphere* **2007**, *69*(11):1765-1774. http://www.sciencedirect.com/science/article/B6V74-4P59RRF-3/1/7efec48f5b4e06c1d2d2029460396d54.

Leon A, Teh SJ, Hall LC, and Teh FC. "Androgen disruption of early development in Qurt strain medaka (Oryzias latipes)," *Aqua Toxicol* **2007**, *82*(3):195-203. http://www.sciencedirect.com/science/article/B6T4G-4N43RJ5-6/2/4733726174dba525f24dca13dcc0528b.

Leon D. "Innovation and the workplace," Drug Discovery Today 1999, 4:181-185.

Leon Z, Balaguer A, Chisvert A, Salvador A, Herraez M, and Diez O. "A reversed-phase ioninteraction chromatographic method for in-vitro estimation of the percutaneous absorption of watersoluble UV filters," *Anal Bioanal Chem* **2008**, *391*(3):859-866. http://www.springerlink.com/content/u118281m42n70167/.

Lerner DT, Björnsson BT, and Mccormick SD. "Larval exposure to 4-nonphenol and 17β -estradiol affects physiological and behavioral development of seawater adaptation in atlantic salmon smolts," *Environ Sci Technol* **2007**, *41*(12):4479-4485.

Leskinen P, Michelini E, Picard D, Karp M, and Virta M. "Bioluminescent yeast assays for detecting estrogenic and androgenic activity in different matrices," *Chemosphere* **2005**, *61*(2):259-266. http://www.sciencedirect.com/science/article/B6V74-4FNDRXS-6/2/a827ab5c45fc487e3a19920b5ab662b6.

Leslie EM, Deeley RG, and Cole SPC. "Toxicological relevance of the multidrug resistance protein 1, MRP1 (ABCC1) and related transporters," *Toxicology* **2001**, *167*(1):3-23. http://www.sciencedirect.com/science/article/B6TCN-43XF451-2/1/86aa49c66ed84d3c28b7a3d74669a1c5.

Leslie HA, Kraak MH, and Hermens JL. "Chronic toxicity and body residues of the nonpolar narcotic 1,2,3,4-tetrachlorobenzene in Chironomus riparius," *Environ Toxicol Chem* **2004**, *23*(8):2022-2028. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15352493.

Lesney MS. "More than just the sugar in the pill," Today's Chemist at Work 2001, (January):38-43.

Lesney MS. "Farming for pharmaceuticals," Today's Chemist at Work 2004:25-27.

Lessenger JE, and Feinberg SD. "Abuse of Prescription and Over-the-Counter Medications," *J Am Board Fam Med* **2008**, *21*(1):45-54. http://www.jabfm.org/cgi/content/abstract/21/1/45 http://www.jabfp.com/cgi/reprint/21/1/45.

Letzel M, Kaul U, Forstner S, Schussler W, Metzner G, Knopp D, et al. "Arzneimittel im Gewässer – Bilanzierung der Belastung am Beispiel des Schmerzmittels Diclofenac (in German)," *Mitt Umweltchem Okotox* 2007, *1*:3-6. http://www.oekochemie.tu-bs.de/ak-umweltchemie/mblatt/2007/b1h107.pdf.

Leung H-W. "Ecotoxicology of Glutaraldehyde: Review of Environmental Fate and Effects Studies," *Ecotoxicol Environ Safety* **2001**, *49*(1):26-39. http://www.sciencedirect.com/science/article/B6WDM-458W5C7-13/2/ef722ac9a4d487496a44e60c043bafb7.

Leusch FDL, Chapman HF, Kay GW, Gooneratne SR, and L.A. T. "Anal fin morphology and gonadal histopathology in mosquitofish (Gambusia holbrooki) exposed to treated municipal sewage effluent," *Arch Environ Contam Toxicol* **2006**, *50*(4):562-574.

Leusch FDL, Chapman HF, Korner W, Gooneratne SR, and Tremblay LA. "Efficacy of an advanced sewage treatment plant in southeast Queensland, Australia, to remove estrogenic chemicals," *Environ Sci Technol* **2005**, *39*(15):5781-5786. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i15/abs/es0484303.html.

Leusch FDL, Chapman HF, van den Heuvel MR, Tan BLL, Gooneratne SR, and Tremblay LA. "Bioassay-derived androgenic and estrogenic activity in municipal sewage in Australia and New Zealand," *Ecotoxicol Environ Safety* **2006**, *65*(3):403-411. http://www.sciencedirect.com/science/article/B6WDM-4H3Y9SW-1/2/efad3d41f76e567b152e539de99590f9.

Leveque C, Hougard JM, Resh V, Statzner B, and Yameogo L. "Freshwater ecology and biodiversity in the tropics: what did we learn from 30 years of onchocerciasis control and the associated biomonitoring of West African rivers?," *Hydrobiologia* **2003**, *500*:23-49.

Lévi Y. "Antibiotics and antibiotic-resistant bacteria in water: Something to worry about?," *Environment, Risques & Sante* **2006**, *5*(4):261-265. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/FB/resume.md?type=text.html.

Levi Y, and Cargouet M. "New micropollutants in waters and new health risks," *Actualite Chimique* **2004**, *277*(78):49-56.

Levin RB, Epstein PR, Ford TE, Harrington W, Olson E, and Reichard EG. "U.S. drinking water challenges in the twenty-first century," *Environ Health Perspect* **2002**, *110*(1):43-52.

Levine AD, and Asano T. "Recovering sustainable water from wastewater," *Environ Sci Technol* **2004**, *38*(11):201A-208A.

Levine AD, Meyer MT, and Kish G. "Evaluation of the persistence of micropollutants through pureoxygen activated sludge nitrification and denitrification," *Wat Environ Res* **2006**, *78*(11):2276-2285.

Levy CW, Roujeinikova A, Sedelnikova S, Baker PJ, Stuitje AR, Slabas AR, et al. "Molecular basis of triclosan activity," *Nature* **1999**, *398*(6726):383-384. http://dx.doi.org/10.1038/18803.

Levy S. "Has the time come for a third class of drugs?," *Drug Topics* **2008**, http://drugtopics.modernmedicine.com/drugtopics/article/articleDetail.jsp?id=522781.

Lewis K. "In search of natural substrates and inhibitors of MDR pumps," *J Molecular Microbiol Biotechnol* **2001**, *3*(2):247-254.

Lewis S, Handy RD, Cordi B, Billinghurst Z, and Depledge MH. "Stress proteins (HSP's): Methods of Detection and Their Use as an Environmental Biomarker," *Ecotoxicology* **1999**, *8*(5):351-368. http://dx.doi.org/10.1023/A:1008982421299. Li BX, Zhang ZJ, Zhao LX, and Xu CL. "Chemiluminescence flow-through sensor for pipemidic acid using solid sodium bismuthate as an oxidant," *Anal Chimica Acta* **2002**, *459*:19-24.

Li C-T. "Application of Caplillary Electrophoresis to Separate Enantiomeric Pharmaceutical Drugs," Masters Dissertation, Chemistry, 2007. pp. http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=952203047.

Li D, Yang M, Hu J, Ren L, Zhang Y, and Li K. "Determination and fate of oxytetracycline and related compounds in oxytetracycline production wastewater and the receiving river," *Environ Toxicol Chem* **2008**, 27(1):80-86. http://www.ncbi.nlm.nih.gov/pubmed/18092864.

Li D, Yang M, Hu J, Zhang Y, Chang H, and Jin F. "Determination of penicillin G and its degradation products in a penicillin production wastewater treatment plant and the receiving river," *Wat Res* **2008**, *42*(1-2):307-317. http://www.sciencedirect.com/science/article/B6V73-4P7FS78-3/1/dec37e36fa36177966abfca3731152c7.

Li FM, and Yu LN. "Determination of trimebutine maleate in rat plasma and tissues by using capillary zone electrophoresis," *Biomedical Chromatogr* **2001**, *15*:248-251.

Li H, Kijak PJ, Turnipseed SB, and Cui W. "Analysis of veterinary drug residues in shrimp: A multiclass method by liquid chromatography-quadrupole ion trap mass spectrometry," *J Chromatogr B: Biomed Sci Applications* **2006**, *836*(1-2):22-38. http://www.sciencedirect.com/science/article/B6X0P-4JMVHV4-5/2/6f8fe7d698c631b174c37cc4eb207ab5.

Li JD, Cai YQ, Shi YL, Mou SF, and Jiang GB. "Determination of sulfonamide compounds in sewage and river by mixed hemimicelles solid-phase extraction prior to liquid chromatography-spectrophotometry," *J Chromatogr A* **2007**, *1139*(2):178-184.

Li K, Yediler A, Yang M, Schulte-Hostede S, and Wong MH. "Ozonation of oxytetracycline and toxicological assessment of its oxidation by-products," *Chemosphere* **2008**, *72*(3):473-478. http://www.sciencedirect.com/science/article/B6V74-4S38BV4-2/2/a7835eaa79f0ba32153be3614294a5ba.

Li QQ, Loganath A, Chong YS, Tan J, and Obbard JP. "Persistent organic pollutants and adverse health effects in humans," *J Toxicol Environ Health - Part A - Current Issues* **2006**, *69*:1987-2005.

Li S, Bejan D, McDowell M, and Bunce N. "Mixed first and zero order kinetics in the electrooxidation of sulfamethoxazole at a boron-doped diamond (BDD) anode," *J Appl Electrochem* **2008**, *38*(2):151-159. http://dx.doi.org/10.1007/s10800-007-9413-2.

Li W, Ma Y, Guo C, Hu W, Liu K, Wang Y, et al. "Occurrence and behavior of four of the most used sunscreen UV filters in a wastewater reclamation plant," *Wat Res* **2007**, *41*(15):3506-3512. http://www.sciencedirect.com/science/article/B6V73-4NVT9R0-1/2/c0ecb47aa44c760f485bbf56ac783b82.

Li W, Seifert M, Xu Y, and Hock B. "Comparative study of estrogenic potencies of estradiol, tamoxifen, bisphenol-A and resveratrol with two in vitro bioassays," *Environ Internat* **2004**, *30*(3):329-335. http://www.sciencedirect.com/science/article/B6V7X-49FR424-1/1/14883a7e139bb03e8dcf127157078460.

Li Y, George EJ, Hansen EM, and Thoma JJ. "Analysis of Natural and Synthetic Estrogens in Water Using ESI/LC/MS Coupled With SPE," American Water Works Association: Water Quality Technology Conference Proceedings, Nov 11-15, 2001.

Li YH, and Lu JR. "Chemiluminescence flow-injection analysis of beta-lactam antibiotics using the luminol-permanganate reaction," *LUMINESCENCE* **2006**, *21*:251-255.

Li YS, Sleigh AC, Ross AGP, Williams GM, Tanner M, and McManus DP. "Epidemiology of Schistosoma japonicum in China: morbidity and strategies for control in the Dongting Lake region," *Internat J Parasitol* **2000**, *30*(3):273-281. http://www.sciencedirect.com/science/article/B6T7F-3YSXPC2-8/2/db47bb8d1890f00c46613dfca85ab7b1.

Li Z, Wang S, Alice Lee N, Allan RD, and Kennedy IR. "Development of a solid-phase extraction-enzyme-linked immunosorbent assay method for the determination of estrone in water," *Anal Chimica Acta* **2004**, *503*(2):171-177. http://www.sciencedirect.com/science/article/B6TF4-4B3JSV3-7/2/8ea13f4aceb67500521ff269fd3e6c17.

Liang Y, Denton MB, and Bates RB. "Stability studies of tetracycline in methanol solution," *J Chromatogr A* **1998**, 827(1):45-55. http://www.sciencedirect.com/science/article/B6TG8-3V8MXJC-6/1/3ff4d7b52bd6675725d713691f5e21c1.

Liawruangrath S, Makchit J, and Liawruangrath B. "A simple flow injection spectrophotometric procedure for the determination of diazepam in pharmaceutical formulation," *Anal Sciences* **2006**, *22*:127-130.

Licea-Perez H, Wang S, Bowen CL, and Yang E. "A semi-automated 96-well plate method for the simultaneous determination of oral contraceptives concentrations in human plasma using ultra performance liquid chromatography coupled with tandem mass spectrometry," *J Chromatogr B: Biomed Sci Applications* **2007**, *852*(1-2):69-76. http://www.sciencedirect.com/science/article/B6X0P-4MTC6K0-5/2/24ea0bee9b7d7e525f2c93b49732ef54.

Licking E, (Editor), "Developments to watch - innovations," Business Week October 11, 1999, 73.

Liebig M, Egeler P, Oehlmann J, and Knacker T. "Bioaccumulation of ¹⁴C-17α-ethinylestradiol by the aquatic oligochaete Lumbriculus variegatus in spiked artificial sediment," *Chemosphere* **2005**, *59*(2):271-280. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4F01173-4&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=da532ce999586f0171f74a01f8134286.

Liebig M, Moltmann JF, and Knacker T. "Evaluation of measured and predicted environmental concentrations of selected human pharmaceuticals and personal care products " *Environ Sci Pollut Res* **2006**, *13*(2):110-119. http://www.springerlink.com/content/55103rn527374684/.

Liebl B, and Ehrenstorfer S. "Nitro musks in human milk," *Chemosphere* **1993**, *27*(11):2253-2260. http://www.sciencedirect.com/science/article/B6V74-4888HS4-167/2/2e9bacf9818ea29f8a5046390fbc510a. Liebl B, Mayer R, Ommer S, Sonnichsen C, and Koletzko B. "Transition of nitro musks and polycyclic musks into human milk," *Landesuntersuchungsamt Gesundheitswesen Sudbayern* **2000**, *478*:289-305.

Liekens S, De Clercq E, and Neyts J. "Angiogenesis: regulators and clinical applications," *Biochem Pharmacol* **2001**, *61*(3):253-270. http://www.sciencedirect.com/science/article/B6T4P-42992JY-1/1/481859c20f7c26a3c94e60fff7c087b9.

Lienert J, Burki T, and Escher BI. "Reducing micropollutants with source control: substance flow analysis of 212 pharmaceuticals in faeces and urine," *Wat Sci Technol* **2007**, *56*(5):87-96. http://www.ncbi.nlm.nih.gov/pubmed/17881841.

Lienert J, Gudel K, and Escher BI. "Screening Method for Ecotoxicological Hazard Assessment of 42 Pharmaceuticals Considering Human Metabolism and Excretory Routes," *Environ Sci Technol* **2007**, *41*(12):4471-4478. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0627693.

Lienert J, and Larsen TA. "Considering User Attitude in Early Development of Environmentally Friendly Technology: A Case Study of NoMix Toilets," *Environ Sci Technol* **2006**, *40*(16):4838-4844. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0600750.

Lietz AC, and Meyer MT. "Evaluation of emerging contaminants of concern at the South District Wastewater Treatment Plant based on seasonal sampling events, Miami-Dade County, Florida, 2004," 2006, 38 pp. http://pubs.usgs.gov/sir/2006/5240/pdf/sir2006-5240.pdf.

LIF. "Pharmaceuticals in the Environment: Current Research and Regulatory Aspects," Symposium Proceedings, Richard Bergström (Managing Director, The Swedish Association of the Pharmaceutical Industry, LIF), Stockholm, Sweden, 2004, 14 pp. http://www.lif.se/pdf/Pharm_environment.pdf.

LIF. "Swedish environmental classification of pharmaceuticals," Swedish Association of the Pharmaceutical Industry (LIF), 200804, AB LSATSAotPI, Ed., Stockholm, Sweden, 2008, 12 pp pp. http://www.lif.se/cs/Publik%20webb/Sidinnehall/Publik_Dokument/Verksamheter/Milj%C3%B6/Swe dish%20environmental%20classification%20of%20pharmaceuticals.pdf.

LIF TSAotPI "Swedish environmental classification of pharmaceuticals database." 2008. http://www.fass.se/LIF/miljo_splash/index_en.jsp http://www.fass.se/LIF/produktfakta/fakta_lakare_artikel.jsp?articleID=84645&UserTypeID=0

Lilius H, Hästbacka T, and Isomaa B. "A comparison of the toxicity of 30 reference chemicals to Daphnia magna and Daphnia pulex," *Environ Toxicol* **1995**, *14*(12):2085-2088.

Lim M-H, Snyder SA, and Sedlak DL. "Use of biodegradable dissolved organic carbon (BDOC) to assess the potential for transformation of wastewater-derived contaminants in surface waters," *Wat Res* **2008**, *42*(12):2943-2952. http://www.sciencedirect.com/science/article/B6V73-4S4TNTR-3/1/69d491a66b6a4b787cdebb512cbc17ba.

Lima JLFC, Prior JAV, Reis BF, Santos JLM, and Zagatto EAG. "Automated spectrophotometric determination of clomipramine on a multicommutated flow system," *Anal Chimica Acta* **2002**, 467(1-

2):75-81. http://www.sciencedirect.com/science/article/B6TF4-45CW1TF-3/2/51632bdb009aa4ae6aaa4fc71d2ae067.

Lin AYC, Plumlee MH, and Reinhard M. "Natural attenuation of pharmaceuticals and alkylphenol polyethoxylate metabolites during river transport: Photochemical and biological transformation," *Environ Toxicol Chem* **2006**, *25*(6):1458-1464.

Lin AYC, and Reinhard M. "Photodegradation of common environmental pharmaceuticals and estrogens in river water," *Environ Toxicol Chem* **2005**, *24*(6):1303-1309.

Lin LL, and Janz DM. "Effects of binary mixtures of xenoestrogens on gonadal development and reproduction in zebrafish," *Aqua Toxicol* **2006**, *80*(4):382-395. http://www.sciencedirect.com/science/article/B6T4G-4M6935B-1/2/b3b432cb46770510f1f1f9ce18d1b153.

Lin W-C, Chen H-C, and Ding W-H. "Determination of pharmaceutical residues in waters by solidphase extraction and large-volume on-line derivatization with gas chromatography-mass spectrometry," *J Chromatogr A* **2005**, *1065*(2):279-285. http://www.sciencedirect.com/science/article/B6TG8-4F924FB-4/2/3fe2140507d17106f22ed6f7664ec523.

Lin WY, and Feng AS. "GABA is involved in spatial unmasking in the frog auditory midbrain," *J Neurosci* **2003**, *23*:8143-8151.

Lin YH, Chen CY, and Wang GS. "Analysis of steroid estrogens in water using liquid chromatography/tandem mass spectrometry with chemical derivatizations," *Rapid Commun Mass Sectrom* **2007**, *21*(13):1973-1983.

Lin YK, and Ho HO. "Investigations on the drug releasing mechanism from an asymmetric membranecoated capsule with an in situ formed delivery orifice," *J Controlled Release* **2003**, *89*:57-69.

Lindberg R, Jarnheimer P-A, Olsen B, Johansson M, and Tysklind M. "Determination of antibiotic substances in hospital sewage water using solid phase extraction and liquid chromatography/mass spectrometry and group analogue internal standards," *Chemosphere* **2004**, *57*(10):1479-1488. http://www.sciencedirect.com/science/article/B6V74-4DN8RHT-P/2/aadb85a9e00dff9ee7853ed31ac6f4a4.

Lindberg RH, Bjorklund K, Rendahl P, Johansson MI, Tysklind M, and Andersson BAV. "Environmental risk assessment of antibiotics in the Swedish environment with emphasis on sewage treatment plants," *Wat Res* **2007**, *41*(3):613-619. http://www.sciencedirect.com/science/article/B6V73-4MMFVKF-3/2/f002ab9acb72d603f3085f8ba9a27ef4.

Lindberg RH, Olofsson U, Rendahl P, Johansson MI, Tysklind M, and Andersson BAV. "Behavior of fluoroquinolones and trimethoprim during mechanical, chemical, and active sludge treatment of sewage water and digestion of sludge," *Environ Sci Technol* **2006**, *40*(3):1042-1048. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i03/abs/es0516211.html.

Lindberg RH, Wennberg P, Johansson MI, Tysklind M, and Andersson BAV. "Screening of Human Antibiotic Substances and Determination of Weekly Mass Flows in Five Sewage Treatment Plants in Sweden," *Environ Sci Technol* **2005**, *39*(10):3421-3429. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048143z.

Lindquist M. "The need for definitions in pharmacovigilance," *Drug Safety* **2007**, *30*(10):825-830. http://www.ingentaconnect.com/content/adis/dsf/2007/00000030/00000010/art00001;jsessionid=ehqh 6mof9imqf.alexandra.

Lindqvist N, Tuhkanen T, and Kronberg L. "Occurrence of acidic pharmaceuticals in raw and treated sewages and in receiving waters," *Wat Res* **2005**, *39*(11):2219-2228. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V73-4G9GN37-1&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=14684&md5=d9db4bff7444d0c424f7d2f8df549cbe.

Lindsey ME, Meyer MT, and Thurman EM. "Analysis of trace levels of sulfonamide and tetracycline antimicrobials in groundwater and surface water using solid-phase extraction and liquid chromatography/mass spectrometry," *Anal Chem* **2001**, *73*(19):4640-4646. http://toxics.usgs.gov/regional/Lindsey_AC_2001.pdf.

Lindstrom A, Buerge IJ, Poiger T, Bergqvist PA, Muller MD, and Buser HR. "Occurrence and environmental behavior of the bactericide triclosan and its methyl derivative in surface waters and in wastewater," *Environ Sci Technol* **2002**, *36*(11):2322-2329. http://www.ncbi.nlm.nih.gov/pubmed/12075785.

Liney KE, Hagger JA, Tyler CR, Depledge MH, Galloway TS, and Jobling S. "Health effects in fish of long-term exposure to effluents from wastewater treatment works," *Environ Health Perspect* **2006**, *114*(1):81-89. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1874182.

Link N, Weber W, and Fussenegger M. "A novel generic dipstick-based technology for rapid and precise detection of tetracycline, streptogramin and macrolide antibiotics in food samples," *J Biotechnol* **2007**, *128*(3):668-680.

Linninger AA, and Chakraborty A. "Pharmaceutical waste management under uncertainty," *Computers Chem Engineering* **2001**, 25:675-681.

Lintelmann J, Katayama A, Kurihara N, Shore L, and Wenzel A. "Endocrine disruptors in the environment - (IUPAC Technical Report)," *Pure Appl Chem* **2003**, *75*(5):631-681.

Lipinski C. "Poor aqueous solubility — an industry wide problem in drug discovery," *Am Pharm Rev* **2002**:82-85.

Lipinski C, and Hopkins AL. "Navigating chemical space for biology and medicine," *Nature* **2004**, *432*:855-861.

Lishman L, Smyth SA, Sarafin K, Kleywegt S, Toito J, Peart T, et al. "Occurrence and reductions of pharmaceuticals and personal care products and estrogens by municipal wastewater treatment plants in Ontario, Canada," *Sci Total Environ* **2006**, *367*(2-3):544-558. http://www.sciencedirect.com/science/article/B6V78-4JXY3M1-2/2/9294fe76c8c630315432a3c6fbf04ffd. Lissemore L, Hao C, Yang P, Sibley PK, Mabury S, and Solomon KR. "An exposure assessment for selected pharmaceuticals within a watershed in Southern Ontario," *Chemosphere* **2006**, *64*(5):717-729. http://www.sciencedirect.com/science/article/B6V74-4HYV02J-2/2/1217d37ecf2b49daa18df2746c4e5b23.

Little EE. "Behavioral measures of environmental " in *Biological Indicators of Aquatic Ecosystem Stress*, Adams SM, Ed., American Fisheries Society; Bethesda, MD, 2002, 431-472. www.afsbooks.org/ind.html.

Litz NT, Muller J, and Bohmer W. "Occurrence of polycyclic musks in sewage sludge and their behaviour in soils and plants - Part 2: Investigation of polycyclic musks in soil and plants," *J Soils Sediments* **2007**, *7*(1):36-44.

Liu B, and Liu X. "Direct photolysis of estrogens in aqueous solutions," *Sci Total Environ* **2004**, *320*(2-3):269-274. http://www.sciencedirect.com/science/article/B6V78-49RCH2M-2/2/2f5cb611dbfaacbdb8b752150172e210.

Liu F, Ying G-G, Yang L-H, and Zhou Q-X. "Terrestrial ecotoxicological effects of the antimicrobial agent triclosan," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4T72K06-2/2/872f47a376ca678695929c4b827cede0.

Liu H, Zhang GP, and Liu CQ. "Determination of chloramphenicol and three tetracyclines by solid phase extraction and high performance liquid chromatography-ultraviolet detection," *Chinese J Anal Chem* **2007**, *35*(3):315-319.

Liu J, Carr S, Rinaldi K, and Chandler W. "Screening estrogenic oxidized by-products by combining ER binding and ultrafiltration," *Environ Toxicol Pharmacol* **2005**, *20*(2):269-278. http://www.sciencedirect.com/science/article/B6T6D-4FSCV9T-2/2/3cfdc10374682deddfe767de8f804392.

Liu JF, Liang X, Jiang GB, Cail YQ, Zhou QX, and Liu GG. "High performance liquid chromatography determination of 4-nonylphenol, 4-tert-octylphenol, and their short ethoxyl chain polyethoxylates in water samples using a microporous membrane liquid-liquid extraction sample pretreatment technique," *J Separation Sci* **2003**, *26*:823-828.

Liu QT, and Williams HE. "Kinetics and degradation products for direct photolysis of beta-blockers in water," *Environ Sci Technol* **2007**, *41*(3):803-810.

Liu R, Wilding A, Hibberd A, and Zhou JL. "Partition of endocrine-disrupting chemicals between colloids and dissolved phase as determined by cross-flow ultrafiltration," *Environ Sci Technol* **2005**, *39*(8):2753-2761.

Liu R, Zhou JL, and Wilding A. "Microwave-assisted extraction followed by gas chromatographymass spectrometry for the determination of endocrine disrupting chemicals in river sediments," *J Chromatogr A* **2004**, *1038*(1-2):19-26. http://www.sciencedirect.com/science/article/B6TG8-4C5HSRP-1/2/7f4675906eea006b25e49f93982afdc3. Liu Y, and Danielsson B. "Rapid fluorometric screening of antibiotics in seafood," *Microchimica Acta* **2006**, *153*(3-4):133-137.

Liu Y, and Jia L. "Analysis of estrogens in water by magnetic octadecylsilane particles extraction and sweeping micellar electrokinetic chromatography," *Microchem J* 2008, *89*(1):72-76. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W6H-4RDS1Y7-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1& urlVersion=0& userid=6729288&md5=12dabd135f75ca0a21e16a6d2f60902c.

Llompart M, Garcia-Jares C, Salgado C, Polo M, and Cela R. "Determination of musk compounds in sewage treatment plant sludge samples by solid-phase microextraction," *J Chromatogr A* **2003**, *999*(1-2):185-193. http://www.sciencedirect.com/science/article/B6TG8-48D3B1K-7/2/42b206c1b250854119726e551f883b30.

Lodovici M, Aiolli S, Monserrat C, Dolara P, Medica A, and Di Simplicio P. "Effect of a mixture of 15 commonly used pesticides on DNA levels of 8-hydroxy-2-deoxyguanosine and xenobiotic metabolizing enzymes in rat liver," *J Environ Pathol Toxicol Oncol* **1994**, *13*(3):163-168. http://www.ncbi.nlm.nih.gov/pubmed/7722883.

Löffler D, Meller M, Ternes T, and Römbke J. "Behaviour of selcted human and veterinary pharmaceuticals in aquatic compartments and soil," September 15, 2004, 148 pp. <u>http://www.norman-network.com/public/library/docs/ternes_pharmaceutical_veterinary_behaviour.pdf</u>.

Loffler D, Rombke J, Meller M, and Ternes TA. "Environmental Fate of Pharmaceuticals in Water/Sediment Systems," *Environ Sci Technol* **2005**, *39*(14):5209-5218. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0484146.

Loffler D, and Ternes TA. "Analytical method for the determination of the aminoglycoside gentamicin in hospital wastewater via liquid chromatography-electrospray-tandem mass spectrometry," *J Chromatogr A* **2003**, *1000*(1-2):583-588. http://www.sciencedirect.com/science/article/B6TG8-47XSXVR-1/2/cfe3b289ac280e798de354ec9c60fdbc.

Loffler D, and Ternes TA. "Determination of acidic pharmaceuticals, antibiotics and ivermectin in river sediment using liquid chromatography-tandem mass spectrometry," *J Chromatogr A* 2003, *1021*(1-2):133-144. http://www.sciencedirect.com/science/article/B6TG8-49S7YS5-1/2/4fe3aa9d14db281f0ad086399739e846.

Loftin KA, Adams CD, Meyer MT, and Surampalli R. "Effects of ionic strength, temperature, and pH on degradation of selected antibiotics," *J Environ Qual* **2008**, *37*(2):378-386. http://jeq.scijournals.org/cgi/content/abstract/37/2/378.

Loftin KA, Henny C, Adams CD, Surampali R, and Mormile MR. "Inhibition of microbial metabolism in anaerobic lagoons by selected sulfonamides, tetracyclines, lincomycin, and tylosin tartrate," *Environ Toxicol Chem* **2005**, *24*(4):782-788.

Loke M-L, Ingerslev F, Halling-Sorensen B, and Tjornelund J. "Stability of Tylosin A in manure containing test systems determined by high performance liquid chromatography," *Chemosphere* **2000**, *40*(7):759-765. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-36/2/f07c3544a0621fd828c6453253537289.

Loke M-L, Jespersen S, Vreeken R, Halling-Sorensen B, and Tjornelund J. "Determination of oxytetracycline and its degradation products by high-performance liquid chromatography-tandem mass spectrometry in manure-containing anaerobic test systems," *J Chromatogr B: Biomed Sci Applications* **2003**, 783(1):11-23. http://www.sciencedirect.com/science/article/B6X0P-469PNVF-2/2/8ee56b61a80919483f69636f92a6a52b.

Loke M-L, and Tjørnelund H-S, B. "Determination of the distribution of coefficient (logKd) of oxytetracycline, tylosin A, olaquindox and metronidazole in manure," *Chemosphere* **2002**, *48*(3):351-361.

Loke M-L, Tjornelund J, and Halling-Sorensen B. "Determination of the distribution coefficient (logKd) of oxytetracycline, tylosin A, olaquindox and metronidazole in manure," *Chemosphere* **2002**, *48*(3):351-361. http://www.sciencedirect.com/science/article/B6V74-45CN7M3-3/2/740d62504addfdd6f04a0860ec50e358.

Lokhnauth JK, and Snow NH. "Determination of parabens in pharmaceutical formulations by solid-phase microextraction-ion mobility spectrometry," *Anal Chem* **2005**, *77*(18):5938-5946.

Lomovskaya O, and Watkins W. "Inhibition of efflux pumps as a novel approach to combat drug resistance in bacteria," *J Mol Microbiol Biotechnol* **2001**, *3*(2):225-236. http://www.ncbi.nlm.nih.gov/pubmed/11321578.

Long C, and Crane M. "Environmental risk assessment of veterinary pharmaceuticals in the EU: Reply to Montforts and de Knecht," *Toxicol Lett* **2003**, *142*(3):219-225. http://www.sciencedirect.com/science/article/B6TCR-47YPPWY-4/2/16dde5433383flce6f9d63430c5305cc.

Longmore RB, Sundereland VB, and Sansom LN. "Analysis of a "Medidump" campaign in Australia," *Int J Pharm Pract* **1995**, *3*:186-191.

Loos R, Hanke G, and Eisenreich SJ. "Multi-component analysis of polar water pollutants using sequential solid-phase extraction followed by LC-ESI-MS," *J Environ Monit* **2003**, *5*(3):384-394. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b300440f.

Loos R, Wollgast J, Huber T, and Hanke G. "Polar herbicides, pharmaceutical products, perfluorooctanesulfonate (PFOS), perfluorooctanoate (PFOA), and nonylphenol and its carboxylates and ethoxylates in surface and tap waters around Lake Maggiore in Northern Italy," *Anal Bioanal Chem* **2007**, *387*(4):1469-1478.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17200857.

Lopez A, Bozzi A, Mascolo G, and Kiwi J. "Kinetic investigation on UV and UV/H2O2 degradations of pharmaceutical intermediates in aqueous solution," *J Photochem Photobiol A: Chem* **2003**, *156*(1-3):121-126. http://www.sciencedirect.com/science/article/B6TGY-47S6RM9-1/2/5132ab7c7402d0c29170bda121cb21ba.

Lopez CM, Sassone AH, Girault MER, Lenzken CS, Lepori ECV, and Roses OE. "Quantification of cotinine in plasma and urine by HPLC-UV detection," *J Liquid Chromatogr Related Technol* **2004**, 27:2371-2379.

Lopez de Alda MJ, and Barcelo D. "Determination of steroid sex hormones and related synthetic compounds considered as endocrine disrupters in water by liquid chromatography-diode array detection-mass spectrometry," *J Chromatogr A* **2000**, *892*(1-2):391-406. http://www.sciencedirect.com/science/article/B6TG8-4177HG6-X/2/0328342f58626ee81a5b24f23f053b23.

López de Alda MJ, and Barceló D. "Determination of steroid sex hormones and related synthetic compounds considered as endocrine disrupters in water by fully automated on-line solid-phase extraction-liquid chromatography-diode array detection," *J Chromatogr A* **2001**, *911*(2):203-210. http://www.sciencedirect.com/science/article/B6TG8-42D2BM5-6/2/4e65ce84bcda5e0cc3f4630a4edcb31a.

Lopez de Alda MJ, Díaz-Cruz S, Petrovic M, and Barceló D. "Liquid chromatography-(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment," *J Chromatogr A* **2003**, *1000*(1-2):503-526. http://www.sciencedirect.com/science/article/B6TG8-48V1GJ4-B/1/ab289b7acb07f38ffea46c406c9ed4dc.

López-Gonzálvez A, Ruiz MA, and Barbas C. "Validated flow-injection method for rapid aluminium determination in anti-perspirants," *J Pharm Biomed Anal* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6TGX-4RMNYG2-2/1/8d130ffda046f5d7e3ff16ec21efc1b4.

Loraine GA, and Pettigrove ME. "Seasonal Variations in Concentrations of Pharmaceuticals and Personal Care Products in Drinking Water and Reclaimed Wastewater in Southern California," *Environ Sci Technol* **2006**, *40*(3):687-695. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es051380x.

Lorenzen A, Burnison K, Servos M, and Topp E. "Persistence of endocrine disrupting chemicals in agricultural soils," *J Environ Eng Sci* **2006**, *5*(3):211-219.

Lorenzen A, Chapman R, Hendel JG, and Topp E. "Persistence and Pathways of Testosterone Dissipation in Agricultural Soil," *J Environ Qual* **2005**, *34*(3):854-860. http://jeq.scijournals.org/cgi/content/abstract/joenq;34/3/854.

Lorenzen A, Hendel JG, Conn KL, Bittman S, Kwabiah AB, Lazarovitz G, et al. "Survey of hormone activities in municipal biosolids and animal manures," *Environ Toxicol* **2004**, *19*(3):216-225. http://dx.doi.org/10.1002/tox.20014.

Lorenzen S, Chapman R, Hendel JG, and Topp E. "Persistence and pathways of testosterone dissipation in agricultural soilJ. Environ. Qual. 2005, 34(3), 854-860," *J Environ Qual* 2005, 34(3):854-860.

Lores M, Llompart M, Sanchez-Prado L, Garcia-Jares C, and Cela R. "Confirmation of the formation of dichlorodibenzo-p-dioxin in the photodegradation of triclosan by photo-SPME," *Anal Bioanal Chem* **2005**, *381*(6):1294-1298. http://www.springerlink.com/content/c34ctx6j3apdedw3/.

Loretz L, Api AM, Barraj L, Burdick J, Davis DA, Dressler W, et al. "Exposure data for personal care products: Hairspray, spray perfume, liquid foundation, shampoo, body wash, and solid antiperspirant," *Food Chem Toxicol* **2006**, *44*(12):2008-2018. http://www.sciencedirect.com/science/article/B6T6P-4KF74SB-1/2/ae85857c57dc41144239c7adcc4d99ab.

Lorphensri O, Intravijit J, Sabatini DA, Kibbey TCG, Osathaphan K, and Saiwan C. "Sorption of acetaminophen, 17[alpha]-ethynyl estradiol, nalidixic acid, and norfloxacin to silica, alumina, and a hydrophobic medium," *Wat Res* **2006**, *40*(7):1481-1491. http://www.sciencedirect.com/science/article/B6V73-4JJ87NH-1/2/ed94f16981d344593fb4714f67dfbe69.

Lorphensri O, Sabatini DA, Kibbey TCG, Osathaphan K, and Saiwan C. "Sorption and transport of acetaminophen, 17[alpha]-ethynyl estradiol, nalidixic acid with low organic content aquifer sand," *Wat Res* **2007**, *41*(10):2180-2188. http://www.sciencedirect.com/science/article/B6V73-4NCK265-2/2/ad6bcadbd1aa3350fcb5be8e7ea5ca36.

Lotti M, and Nicotera P. "Toxicology: A risky business," *Nature* **2002**, *416*(6880):481-481. http://dx.doi.org/10.1038/416481a.

Lu J. "Fundamental studies of the halogenation of phenolic compounds during water chlorination " University of Washington, 2007. 157 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2231211 ,FM=9,SEARCH=MD.GenericSearch.

Lubick N. "Composting industrial waste," Sci News 2006.

Lubick N. "Artificial sweetener persists in the environment," Environ Sci Technol 2008, 42(9):3125.

Lubick N. "Genes help predict drugs' environmental impacts," *Environ Sci Technol* **2008**, *In Press* http://pubs.acs.org/cgi-bin/sample.cgi/esthag/asap/html/es801614k.html.

Lubick N. "Cocaine from drains in Spain," *Environ Sci Technol* **2008**, *In press* http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es8020606.

Lucas SD, and Jones DL. "Biodegradation of estrone and 17β-estradiol in grassland soils amended with animal wastes," *Soil Biol Biochem* **2006**, *38*(9):2803-2815. http://www.sciencedirect.com/science/article/B6TC7-4K0FDNR-1/2/0ec25932dcd2a5319e383c15b3a73a67.

Luckenbach T, Corsi I, and Epel D. "Fatal attraction: Synthetic musk fragrances compromise multixenobiotic defense systems in mussels," *Mar Environ Res* **2004**, *58*(2-5):215-219. http://www.sciencedirect.com/science/article/B6V7H-4CCNVFW-1/2/9a161baff90c45462b7d59e77cde48d4. Luckenbach T, and Epel D. "Nitromusk and polycyclic musk compounds as long-term inhibitors of cellular xenobiotic defense systems mediated by multidrug transporters," *Environ Health Perspect* **2005**, *113*(1):17-24. http://ehp.niehs.nih.gov/docs/2004/7301/abstract.pdf.

Lumaret JP, Alvinerie M, Hempel H, Schallinass HJ, Claret D, and Rombke J. "New screening test to predict the potential impact of ivermectin-contaminated cattle dung on dung beetles," *Vet Res* **2007**, *38*(1):15-24.

Lundgren A. "Assessment in the chemicals control of environmental hazards and risks," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 7, 104-114. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Lunestad BT, Samuelsen OB, Fjelde S, and Ervik A. "Photostability of eight antibacterial agents in seawater," *Aquaculture* **1995**, *134*(3):217-225. http://www.ingentaconnect.com/content/els/00448486/1995/00000134/0000003/art00065 http://dx.doi.org/10.1016/0044-8486(95)00065-A.

Lunn G. "Capillary electrophoresis methods for pharmaceutical analysis." New York, NY, Wileyinterscience, 2000, xxii + 1544 pp. http://www.ingentaconnect.com/content/els/00399140/2001/00000054/0000006/art00355.

Lunn G, and Sansone EB. "Reductive destruction of dacarbazine, procarbazine hydrochloride, isoniazid, and iproniazid," *Am J Health Syst Pharm* **1987**, *44*(11):2519-2524. http://www.ajhp.org/cgi/content/abstract/44/11/2519 http://www.ncbi.nlm.nih.gov/pubmed/3687991?dopt=Abstract.

Lunn G, Sansone EB, Andrews AW, and Hellwig LC. "Degradation and disposal of some antineoplastic drugs," *J Pharma Sci* **1989**, *78*(8):652-659. http://dx.doi.org/10.1002/jps.2600780811.

Lurling M, Sargant E, and Roessink I. "Life-history consequences for Daphnia pulex exposed to pharmaceutical carbamazepine," *Environ Toxicol* **2006**, *21*(2):172-180. <Go to ISI>://CCC:000236650900011.

Lusk JL, Norwood FB, and Pruitt JR. "Consumer Demand for a Ban on Antibiotic Drug Use in Pork Production," *Am J Agri Economics* **2006**, 88:1015-1033. http://www.ingentaconnect.com/content/bpl/ajae/2006/00000088/00000004/art00016 http://dx.doi.org/10.1111/j.1467-8276.2006.00913.x.

Lutz F, and Alber J. "Valuation of drug residues in solid manure from veterinarian complex hospitals. A literature study," *Tierarztliche Praxis Ausgabe Grosstiere Nutztiere* **2004**, *32*(4):180-190.

Lutz I, and Kloas W. "Amphibians as a model to study endocrine disruptors: I. Environmental pollution and estrogen receptor binding," *Sci Total Environ* **1999**, *225*(1-2):49-57. http://www.sciencedirect.com/science/article/B6V78-49G03VK-3/2/8dcf07fb3a0ac402bfa9c4e8d824a40d. Lützhøft HCH, Halling-Sørensen B, and Jørgensen SE. "Algal Toxicity of Antibacterial Agents Applied in Danish Fish Farming," *Arch Environ Contam Toxicol* **1999**, *36*(1):1-6. http://dx.doi.org/10.1007/s002449900435.

Lutzhoft H-CH, Vaes WHJ, Freidig AP, Halling-Sorensen B, and Hermens JLM. "1-Octanol/water distribution coefficient of oxolinic acid: influence of pH and its relation to the interaction with dissolved organic carbon," *Chemosphere* **2000**, *40*(7):711-714. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-30/2/769773bdea6969f1ba5f690a304589b3.

Lv X, Shao J, Song M, Zhou Q, and Jiang G. "Vitellogenic effects of 17[beta]-estradiol in male Chinese loach (Misgurnus anguillicaudatus)," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2006**, *143*(1):127-133. http://www.sciencedirect.com/science/article/B6W89-4J9VMX8-1/2/15a44c79a5bcfb44380c94df08449012.

Lv X, Zhou Q, Song M, Jiang G, and Shao J. "Vitellogenic responses of 17β-estradiol and bisphenol A in male Chinese loach (Misgurnus anguillicaudatus)," *Environ Toxicol Pharmacol* **2007**, *24*(2):155-159. http://www.sciencedirect.com/science/article/B6T6D-4NKJ0GK-3/2/9aa3be5258d4a2e2561a57e8797c96f0.

Lyberatos G, and Andreozzi R. "Special issue - Pharmaceuticals in the environment – Foreword," *J Hazardous Mat* **2005**, *122*(3):193.

Lyle-Fritch LP, Romero-Beltran E, and Paez-Osuna F. "A survey on use of the chemical and biological products for shrimp farming in Sinaloa (NW Mexico)," *Aqua Eng* **2006**, *35*(2):135-146. http://www.sciencedirect.com/science/article/B6T4C-4HDP75N-1/2/0d133814913e4760e25236f2b7f06260.

Lynch JC, and McCullough T. "The Collection and Disposal of Waste Medications," *US Pharm* **2008**, *33*(6):HS-20-HS-24. http://www.uspharmacist.com/index.asp?show=article&page=8_2302.htm.

Lynn RK, Smith RG, Thompson RM, Deinzer ML, Griffin D, and Gerber N. "Characterization of glucuronide metabolites of carbamazepine in human urine by gas chromatography and mass spectrometry," *Drug Metabolism Disposition* **1978**, 6:494-501.

Lynn SE, Egar JM, Walker BG, Sperry TS, and Ramenofsky M. "Fish on Prozac: a simple, noninvasive physiology laboratory investigating the mechanisms of aggressive behavior in Betta splendens," *Advanced Physiol Edu* **2007**, *31*(4):358-363. http://advan.physiology.org/cgi/content/abstract/31/4/358.

Lyssimachou A, and Arukwe A. "Alteration of Brain and Interrenal StAR Protein, P450scc, and Cyp11β mRNA Levels in Atlantic Salmon after Nominal Waterborne Exposure to the Synthetic Pharmaceutical Estrogen Ethynylestradiol," *J Toxicol Environ Health Part A* **2007**, *70*(7):606 - 613. http://www.informaworld.com/10.1080/10937400600882905.

Lyssimachou A, Jenssen BM, and Arukwe A. "Brain cytochrome P450 aromatase gene isoforms and activity levels in atlantic salmon after waterborne exposure to nominal environmental concentrations of the pharmaceutical ethynylestradiol and antifoulant tributyltin," *Toxicol Sci* **2006**, *91*(1):82-92. http://www.ingentaconnect.com/content/oup/toxsci/2006/00000091/00000001/art00082.

M C, N K, B S, O G, and H K. "The solids retention time-a suitable design parameter to evaluate the capacity of wastewater treatment plants to remove micropollutants," *Wat Res* **2005**, *39*(1):97-106.

Ma M, Rao K, and Wang Z. "Occurrence of estrogenic effects in sewage and industrial wastewaters in Beijing, China," *Environ Pollut* **2007**, *147*(2):331-336. http://www.sciencedirect.com/science/article/B6VB5-4KGPPMH-2/2/26b2c8b34a77074f5c50f0a7aea5f1d8.

Ma M, Zhang H-S, Xiao L-Y, Xiao L, Peng W, Cui H-R, et al. "Quaternary ammonium chitosan derivative dynamic coating for the separation of veterinary sulfonamide residues by CE with field-amplified sample injection," *ELECTROPHORESIS* **2007**, *28*(22):4091-4100. http://dx.doi.org/10.1002/elps.200700317.

Ma T, Wang Z, and Gong S. "Comparative sensitivity in Chinese rare minnow (Gobiocypris rarus) and Japanese Medaka (Oryzias latipes) exposed to ethinylestradiol," *J Environ Sci Health Part A - Toxic/Haz Sub Environ Eng* **2007**, *42*(7):889-894. http://www.ncbi.nlm.nih.gov/pubmed/17558769.

Ma W, Yang M, Wang J, Qi R, and Ren L. "Treatment of Antibiotics Wastewater Utilizing Successive Hydrolysis, Denitrification and Nitrification.," *Environ Technol* **2002**, *22*(6):685-694.

Maack G, and Segner H. "Life-stage-dependent sensitivity of zebrafish (Danio rerio) to estrogen exposure," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2004**, *139*(1-3):47-55.

Macarthur D. "Any old drugs? Two schemes for the disposal of unwanted medicines in Europe," *The Pharmaceutical J* **2000**, 264(7082):223-224. http://www.pjonline.com/editorial/20000205/articles/olddrugs.html.

Macauley JJ, Qiang Z, Adams CD, Surampalli R, and Mormile MR. "Disinfection of swine wastewater using chlorine, ultraviolet light and ozone," *Wat Res* **2006**, *40*(10):2017-2026. http://www.sciencedirect.com/science/article/B6V73-4JWFGS3-2/2/d4716fff9ffcce6f120eb21e9b226cdd.

Macià A, Borrull F, Aguilar C, and Calull M. "Improving sensitivity by large-volume sample stacking using the electroosmotic flow pump to analyze some nonsteroidal anti-inflammatory drugs by capillary electrophoresis in water samples," *ELECTROPHORESIS* **2003**, *24*(16):2779-2787. http://dx.doi.org/10.1002/elps.200305542.

Macia A, Borrull F, Calull M, and Aguilar C. "Determination of some acidic drugs in surface and sewage treatment plant waters by capillary electrophoresis-electrospray ionization-mass spectrometry," *ELECTROPHORESIS* **2004**, *25*(20):3441-3449.

Macià A, Borrull F, Calull M, and Aguilar C. "Analysis of Nonsteroidal Anti-inflammatory Drugs in Water Samples Using Microemulsion Electrokinetic Capillary Chromatography Under pH-Suppressed Electroosmotic Flow with an On-Column Preconcentration Technique," *Chromatographia* **2006**, *63*(3):149-154. http://dx.doi.org/10.1365/s10337-006-0723-z.

Mackay DW, Holmes PJ, and Redshaw CJ. "The application of bioassay techniques to water pollution problems — The United Kingdom experience," *Hydrobiologia* **1989**, *188-189*(1):77-86. http://dx.doi.org/10.1007/BF00027773.

MacKenzie CA, Berrill M, Metcalfe C, and Pauli BD. "Gonadal differentiation in frogs exposed to estrogenic and antiestrogenic compounds," *Environ Toxicol Chem* **2003**, *22*(10):2466-2475. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-173.

Mackie RI, Koike S, Krapac I, Chee-Sanford J, Maxwell S, and Aminov RI. "Tetracycline residues and tetracycline resistance genes in groundwater impacted by swine production facilities," *Animal Biotech* **2006**, *17*(2):157-176.

Mackridge AJ, and Marriott JF. "Returned medicines: waste or a wasted opportunity?," *J Public Health (Oxford England)* **2007**, *29*(3):258-262.

MacLatchy D, Cushnie W, Rendell J, and Currie S. "Ethinylestradiol depresses gonadal steroidogenesis downstream of the rate-limiting step in mumnichog (Fundulus heteroclitus)," *Comp Biochem Physiol- Part A: Mol Integrative Physiol* **2007**, *146*(4, Supplement 1):S176. http://www.sciencedirect.com/science/article/B6VNH-4NGKDXR-BC/1/95172a1a9368f41f22ed1df827a13755.

Macleod SL, McClure EL, and Wong CS. "Laboratory calibration and field deployment of the polar organic chemical integrative sampler for pharmaceuticals and personal care products in wastewater and surface water," *Environ Toxicol Chem* **2007**, *26*(12):2517-2529. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18020693.

MacLeod SL, Sudhir P, and Wong CS. "Stereoisomer analysis of wastewater-derived beta-blockers, selective serotonin re-uptake inhibitors, and salbutamol by high-performance liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2007**, *1170*(1-2):23-33. http://www.ncbi.nlm.nih.gov/pubmed/17915230.

Magee AM, and Quinn JP. "Antibiotic resistance in the bacteria of a remote upland river catchment," *Lett Appl Microbiol* **1991**, *13*(3):145-149. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1472-765X.1991.tb00593.x.

Mahedero Garcia MC, Diez NM, Gil DB, and Lopez FS. "Determination of sulphathiazole and sulphanilamide by photochemically induced fluorescence and first-derivative fluorescence," *J Pharmaceutical Biomed Anal* **2005**, *38*(2):349-354. http://www.sciencedirect.com/science/article/B6TGX-4FFGJY1-3/2/522a9ad19e3ca39fcc606c7636178658.

Mahnik SN, Lenz K, Weissenbacher N, Mader RM, and Fuerhacker M. "Fate of 5-fluorouracil, doxorubicin, epirubicin, and daunorubicin in hospital wastewater and their elimination by activated sludge and treatment in a membrane-bio-reactor system," *Chemosphere* **2007**, *66*(1):30-37. http://www.sciencedirect.com/science/article/B6V74-4KCXJ8W-2/2/5826a7e00b797483a7d51cb712e2ed78.

Mahnik SN, Rizovski B, Fuerhacker M, and Mader RM. "Development of an analytical method for the determination of anthracyclines in hospital effluents," *Chemosphere* **2006**, *65*(8):1419-1425. http://www.sciencedirect.com/science/article/B6V74-4K0FMN1-1/2/f7566898e69802b364411eaebe64d3df.

Maier DE. "Concerns over pharmaceutical traits in grains and oilseeds," Purdue University - Grain Quality Task Force, July 2, 2002, 4 pp.

Maier DE. "Grain Quality Task Force: Concerns over pharmaceutical traits in grains and oilseeds," Purdue University, 31 July, 2002, pp.

Maillard E. "Analyse du risque écotoxicologique d'insecticides et de médicaments dans l'environnement aquatique " Masters Dissertation, Ecole Polytechnique Federale de Lausanne, Section Sciences et Ingenierie de l'Environnement SSIE-EPFL, Lausanne, Switzerland, 2006. 134 pp. http://www.unil.ch/webdav/site/ipteh/shared/Recherche/Master_06/Master_Emmanuel_Maillard.pdf.

Majewski AR, Blanchfield PJ, Palace VP, and Wautier KG. "Waterborne 17α-ethynylestradiol affects aggressive behaviour of male fathead minnows (Pimephales promelas) under artificial spawning conditions," *Wat Qual Res J Canada* **2002**, *37*(4):697-710.

Majima K, Fukui T, Yuan J, Wang G, and Matsumoto K. "Quantitative Measurement of 17 Beta-Estradiol and Estriol in River Water by Time-Resolved Fluoroimmunoassay," *Anal Sci - The Internat J Japan Soc Anal Chem* **2002**, *18*(8):869-874.

Majumdar S, Bhaumik D, and Sirkar KK. "Performance of commercial-size plasmapolymerized PDMS-coated hollow fiber modules in removing VOCs from N2/air," *J Membrane Sci* 2003, *214*(2):323-330. http://www.sciencedirect.com/science/article/B6TGK-47HS7TP-2/2/0c24b73d1df6a21233316a25dadac20d.

Makarewicz JC, Damaske E, Lewis TW, and Merner M. "Trend analysis reveals a recent reduction in mirex concentrations in coho (Oncorhynchus kisutch) and chinook (O-tshawytscha) salmon from Lake Ontario," *Environ Sci Technol* **2003**, *37*:1521-1527.

Makoto Y, Arata H, Koya K, and Yutaka S. "Sorption Characteristics of the Human Antibiotics to Activated Sludge," *Environ Eng Res* **2006**, *43*:95-104. http://sciencelinks.jp/j-east/article/200704/000020070407A0046064.php.

Malathum K, and Murray BE. "Vancomycin-resistant enterococci: recent advances in genetics, epidemiology and therapeutic options," *Drug Resistance Updates* **1999**, *2*(4):224-243. http://www.sciencedirect.com/science/article/B6WDK-45GWDD9-R/2/a8bfaea7209f8cd75fb36361fd047bee.

Malintan NT, and Mohd MA. "Determination of sulfonamides in selected Malaysian swine wastewater by high-performance liquid chromatography," *J Chromatogr A* **2006**, *1127*(1-2):154-160. http://www.sciencedirect.com/science/article/B6TG8-4K8SBY9-B/2/1492552d255f292f210d50ab1e28aea9.

Mallett SR, Danta RC, Benson JR, Corey AD, Davidner AA, and Regla P. "Method for sorting discarded and spent pharmaceutical items " **2008**, (11/417869)

http://66.102.1.104/scholar?hl=en&lr=&q=cache:GMmlxL3VOpMJ:www.freepatentsonline.com/7318 529.html+pharmaceutical+sewage+-elsevier.

Managaki S, Murata A, Takada H, Tuyen BC, and Chiem NH. "Distribution of Macrolides, Sulfonamides, and Trimethoprim in Tropical Waters: Ubiquitous Occurrence of Veterinary Antibiotics in the Mekong Delta," *Environ Sci Technol* **2007**, *41*(23):8004-8010. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0709021.

Managaki S, Takada H, Kim D-M, Horiguchi T, and Shiraishi H. "Three-dimensional distributions of sewage markers in Tokyo Bay water--fluorescent whitening agents (FWAs)," *Mar Pollut Bull* **2006**, *52*(3):281-292. http://www.sciencedirect.com/science/article/B6V6N-4H98NVY-1/2/c73be885cc1427b313993e08a749b343.

Maniatis T, and Reed R. "An extensive network of coupling among gene expression machines," *Nature* **2002**, *416*(6880):499-506. http://dx.doi.org/10.1038/416499a.

Mankes RF, and Lee L. "A vital step in managing pharmaceutical waste," Vestara, 2006, 16 pp.

Mansell BL, and Drewes JE. "Fate of steroidal hormones during soil-aquifer treatment," *Ground Wat Monit Remediation* **2004**, *24*(2):94-101.

Mansell J, Drewes JE, and Rauch T. "Removal mechanisms of endocrine disrupting compounds (steroids) during soil aquifer treatment," *Wat Sci Technol* **2004**, *50*(2):229-237.

Maran E, Novic M, Barbieri P, and Zupan J. "Application of counterpropagation artificial neural network for modelling properties of fish antibiotics," *SAR QSAR Environ Res* **2004**, *15*(5-6):469-480.

Marchant GE. "Genomics and environmental regulation scenarios and implications," Foresight and Governance Project, 2002, 30 pp.

Marchese S, Gentili A, Perret D, D'Ascenzo G, and Pastori F. "Quadrupole time-of-flight versus triplequadrupole mass spectrometry for the determination of non-steroidal antiinflammatory drugs in surface water by liquid chromatography/tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2003**, *17*(9):879-886.

Marchese S, Perret D, Gentili A, Curini R, and Pastori F. "Determination of non-steroidal antiinflammatory drugs in surface water and wastewater by liquid chromatography-tandem mass spectrometry," *Chromatographia* **2003**, *58*(5-6):263-269.

Marciocha D, Felis E, and Surmacz-Gorska J. "Paramaters of pretreating wastewater polluted with chemicals based on modified Fenton's reaction," *Environment Protection Engineering* **2007**, *33*(2):165-173. http://direct.bl.uk/bld/PlaceOrder.do?UIN=213051464&ETOC=RN&from=searchengine.

Margret Schlumpf SD, Oliver Faass, Colin Ehnes, Michaela Fuetsch, Catherine Gaille, Manuel Henseler, Luke Hofkamp, Kirsten Maerkel, Sasha Reolon, Barry Timms, Jesus A. F. Tresguerres, Walter Lichtensteiger, "Developmental toxicity of UV filters and environmental exposure: a review," *Internat J Androl* **2008**, *31*(2):144-151. http://dx.doi.org/10.1111/j.1365-2605.2007.00856.x.

Marinkovic N, Vitale K, Holcer NJ, Dzakula A, and Pavic T. "Management of hazardous medical waste in Croatia," *Waste Management* **2008**, *28*(6):1049-1056. http://www.sciencedirect.com/science/article/B6VFR-4NJP3KY-2/1/8d1c072c9a121ca66ac7641fee83af46.

Marinovich M, Ghilardi F, and Galli CL. "Effect of pesticide mixtures on in vitro nervous cells: comparison with single pesticides," *Toxicology* **1996**, *108*(3):201-206. http://www.ncbi.nlm.nih.gov/pubmed/8658539.

Markandya A, Taylor T, Longo A, Murty MN, Murty S, and Dhavala K. "Counting the cost of vulture decline--An appraisal of the human health and other benefits of vultures in India," *Ecological Economics* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6VDY-4T3KP96-1/2/af820759fb0a335173aa3685ea71ba0c.

Marking LL, Howe GE, and Crowther JR. "Toxicity of Erythromycin, Oxytetracycline, and Tetracycline Administered to Lake Trout in Water Baths, by Injection, or by Feeding," *The Progressive Fish-Culturist* **1988**, *50*(4):197-201. http://dx.doi.org/10.1577%2F1548-8640%281988%29050%3C0197%3ATOEOAT%3E2.3.CO%3B2.

Markman S, Leitner S, Catchpole C, Barnsley S, Muller CT, Pascoe D, et al. "Pollutants Increase Song Complexity and the Volume of the Brain Area HVC in a Songbird," *PLoS ONE* **2008**, *3*(2):e1674. http://dx.doi.org/10.1371%2Fjournal.pone.0001674.

Marques CR, Abrantes N, and Goncalves F. "Life-history traits of standard and autochthonous cladocerans: I. Acute and chronic effects of acetylsalicylic acid," *Environ Toxicol* **2004**, *19*(5):518-526.

Marques CR, Abrantes N, and Goncalves F. "Life-history traits of standard and autochthonous cladocerans: II. Acute and chronic effects of acetylsalicylic acid metabolites," *Environ Toxicol* **2004**, *19*(5):527-540.

Marques MA, Pereira HM, Padilha MC, and de Aquino Neto FR. "Analysis of synthetic 19-norsteroids trenbolone, tetrahydrogestrinone and gestrinone by gas chromatography-mass spectrometry," *J Chromatogr A* **2007**, *1150*(1-2):215-225.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16963059.

Marrazza G, Chianella I, and Mascini M. "Disposable DNA electrochemical biosensors for environmental monitoring," *Anal Chimica Acta* **1999**, *387*(297-307).

Marsalek J. "Pharmaceuticals And Personal Care Products (Ppcp) In Canadian Urban Waters: A Management Perspective," in *Dangerous Pollutants (Xenobiotics) in Urban Water Cycle*, Hlavinek P, Bonacci O, Marsalek J and Mahrikova I, Eds., Springer Netherlands, 2008, 117-130. http://dx.doi.org/10.1007/978-1-4020-6795-2_12 http://www.springerlink.com/content/xu140474814q2655/.

Marshall J. "Disposal of household special wastes," *EnviroStats* **2008**, *2*(1):3-7. http://www.statcan.ca/english/freepub/16-002-XIE/2008001/10539-en.htm.

Marshall J. "Disposal of household special wastes," Statistics Canada, Ottawa, Ontario, Canada, 2008. http://www.statcan.ca/english/freepub/16-002-XIE/2008001/10539-en.htm.

Martin C, Moeder M, Daniel X, Krauss G, and Schlosser D. "Biotransformation of the polycyclic musks HHCB and AHTN and metabolite formation by fungi occurring in freshwater environments," *Environ Sci Technol* **2007**, *41*(15):5395-5402.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17822108.

Martin MJ, Pablos F, and Gonzalez AG. "Simultaneous determination of caffeine and non-steroidal anti-inflammatory drugs in pharmaceutical formulations and blood plasma by reversed-phase HPLC from linear gradient elution," *Talanta* **1999**, *49*(2):453-459. http://www.sciencedirect.com/science/article/B6THP-3WN6W67-X/2/4f2a376d3c6304ea010b72437fd2ed50.

Martin SJL, Bilotas K, Cameron J, Carr DS, Earle WM, Gressitt S, et al. "Final report of the Maine Drug Return Implementation Group," State of Maine 121st Legislature 2005, 34 pp. http://www.maine.gov/legis/opla/reports2.htm.

Martindale. "The Complete Drug Reference." Great Britain, England, Pharmaceutical Press, 2007, 35th ed., 3322 pp. http://www.medicinescomplete.com/mc/martindale/current/contents.htm.

Martinez Bueno MJ, Aguera A, Gomez MJ, Hernando MD, Garcia-Reyes JF, and Fernandez-Alba AR. "Application of Liquid Chromatography/Quadrupole-Linear Ion Trap Mass Spectrometry and Timeof-Flight Mass Spectrometry to the Determination of Pharmaceuticals and Related Contaminants in Wastewater," *Anal Chem* **2007**, *79*(24):9372-9384. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac0715672.

Martinez JL. "Antibiotics and Antibiotic Resistance Genes in Natural Environments," *Science* **2008**, *321*(5887):365-367. http://www.sciencemag.org/cgi/content/abstract/321/5887/365.

Martinez M, Amidon G, Clarke L, Jones WW, Mitra A, and Riviere J. "Applying the biopharmaceutics classification system to veterinary pharmaceutical products: Part II. Physiological considerations," *Advanced Drug Delivery Rev* **2002**, *54*(6):825-850. http://www.sciencedirect.com/science/article/B6T3R-46RVCWW-6/1/2e115373f7a4ac56b45fa8d76ee4c3ed.

Martinez-Carballo E, Gonzalez-Barreiro C, Scharf S, and Gans O. "Environmental monitoring study of selected veterinary antibiotics in animal manure and soils in Austria," *Environ Pollut* **2007**, *148*(2):570-579. http://www.sciencedirect.com/science/article/B6VB5-4N0XNSH-4/2/83a18e17c1cba5ed3c9284589ba7080f.

Martinovic D, Denny JS, Schmieder PK, Ankley GT, and Sorensen PW. "Temporal Variation in the Estrogenicity of a Sewage Treatment Plant Effluent and Its Biological Significance," *Environ Sci Technol* **2007**, *42*(9):3421-3427. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es0708013.

Martinovic D, Hogarth WT, Jones RE, and Sorensen PW. "Environmental estrogens suppress hormones, behavior, and reproductive fitness in male fathead minnows," *Environ Toxicol Chem* 2007,

26(2):271-278. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17713215.

Martins da Costa P, Vaz-Pires P, and Bernardo F. "Antimicrobial resistance in Enterococcus spp. isolated in inflow, effluent and sludge from municipal sewage water treatment plants," *Wat Res* **2006**, *40*(8):1735-1740. http://www.sciencedirect.com/science/article/B6V73-4JRKCT4-5/2/4489ab16bf447626f370686315c39b12.

Martyniuk CJ, Gerrie ER, Popesku JT, Ekker M, and Trudeau VL. "Microarray analysis in the zebrafish (Danio rerio) liver and telencephalon after exposure to low concentration of 17alphaethinylestradiol," *Aqua Toxicol* **2007**, *84*(1):38-49. http://www.sciencedirect.com/science/article/B6T4G-4NTJGVY-3/1/07ea96de2878dd8aecc29d0d6a1f7abb.

Martyniuk CJ, Xiong HL, Crump K, Chiu S, Sardana R, Nadler A, et al. "Gene expression profiling in the neuroendocrine brain of male goldfish (Carassius auratus) exposed to 17 alpha-ethinylestradiol," *Physiological Genomics* **2006**, *27*(3):328-336.

Marvier M. "Pharmaceutical crops have a mixed outlook in California," *California Agric* **2007**, (April-June):59-66.

Masciangioli T, and Zhang W-X. "Environmental technologies at the nanoscale," *Environ Sci Technol* **2003**, *37*(5):102A-108A.

Maskaoui K, Hibberd A, and Zhou JL. "Assessment of the Interaction between Aquatic Colloids and Pharmaceuticals Facilitated by Cross-Flow Ultrafiltration," *Environ Sci Technol* **2007**, *41*(23):8038-8043. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es071507d.

Mason DS, Schafer F, Shick JM, and Dunlap WC. "Ultraviolet radiation-absorbing mycosporine-like amino acids (MAAs) are acquired from their diet by medaka fish (Oryzias latipes) but not by SKH-1 hairless mice," *Comp Biochem Physiol Part A - Molecular Integrative Physiol* **1998**, *120*(4):587-598. http://www.sciencedirect.com/science/article/B6VNH-3VPJBVR-4/2/3f6f58b92fdc2c47714c2a91448908c0.

Massey RC, and Peacock SJ. "Antibiotic-resistant sub-populations of the pathogenic bacterium Staphylococcus aureus confer population-wide resistance," *Current Biol* **2002**, *12*(20):R686-R687. http://www.sciencedirect.com/science/article/B6VRT-472RVSH-6/2/b9dadd566534d3eee58bd0338f02e3fc.

Massmann G, Dünnbier U, Heberer T, and Taute T. "Behaviour and redox sensitivity of pharmaceutical residues during bank filtration - Investigation of residues of phenazone-type analgesics," *Chemosphere* **2008**, *71*(8):1476-1485. http://www.sciencedirect.com/science/article/B6V74-4RV1JKK-5/1/60e26c196d2d20887f200532bca0d01e.

Massmann G, Greskowiak J, Dunnbier U, Zuehlke S, Knappe A, and Pekdeger A. "The impact of variable temperatures on the redox conditions and the behaviour of pharmaceutical residues during artificial recharge," *J Hydrol* **2006**, *328*(1-2):141-156.

http://www.sciencedirect.com/science/article/B6V6C-4J91NPN-5/2/34f6a3c3184d0291f58409c9baf8e1dc.

Massmann G, Sültenfuß J, Dünnbier U, Knappe A, Taute T, and Pekdeger A. "Investigation of groundwater residence times during bank filtration in Berlin: a multi-tracer approach," *Hydrolog Processes* **2008**, 22(6):788-801. http://dx.doi.org/10.1002/hyp.6649 http://www3.interscience.wiley.com/journal/114279053/abstract.

Masters RW. "Pharmaceuticals and Endocrine Disruptors in Rivers and On Tap," *J Contemporary Wat Res Education* **2001**, *120*:1-3. http://www.ucowr.siu.edu/updates/pdfn/V120_A1.pdf.

Masters RW, Verstraeten IM, and Heberer T. "Fate and transport of pharmaceuticals and endocrine disrupting compounds during ground water recharge," *Ground Wat Monit Remediation* **2004**, *24*(2):54-57.

Mastrocco F. "Pharmaceuticals In The Environment (PIE): Assessing Risk to Human Health," 14 June 2005. http://www.asph.org/UserFiles/EOH05Mastrocco.ppt#256,1,Pharmaceuticals

Mastrup M, Schafer AI, and Khan SJ. "Predicting fate of the contraceptive pill in wastewater treatment and discharge," *Wat Sci Technol* **2005**, *52*(8):279-286.

Matamoros V, and Bayona JM. "Elimination of Pharmaceuticals and Personal Care Products in Subsurface Flow Constructed Wetlands," *Environ Sci Technol* **2006**, *40*(18):5811-5816. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0607741.

Matamoros V, Caselles-Osorio A, Garcia J, and Bayona JM. "Behaviour of pharmaceutical products and biodegradation intermediates in horizontal subsurface flow constructed wetland. A microcosm experiment," *Sci Total Environ* **2008**, *394*(1):171-176. http://www.sciencedirect.com/science/article/B6V78-4RWB0SG-3/2/14c3b54d8b6b259092546933409ab99a.

Matamoros V, Garcia J, and Bayona JM. "Behavior of Selected Pharmaceuticals in Subsurface Flow Constructed Wetlands: A Pilot-Scale Study," *Environ Sci Technol* **2005**, *39*(14):5449-5454. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es050022r.

Matamoros V, Garcia J, and Bayona JM. "Organic micropollutant removal in a full-scale surface flow constructed wetland fed with secondary effluent," *Wat Res* **2008**, *42*(3):653-660. http://www.sciencedirect.com/science/article/B6V73-4PGY4N8-2/2/85f6f12c303e8af0ff8c9a733127564f.

Matamoros V, xed, ctor, Arias C, Brix H, and Bayona JM. "Removal of Pharmaceuticals and Personal Care Products (PPCPs) from Urban Wastewater in a Pilot Vertical Flow Constructed Wetland and a Sand Filter," *Environ Sci Technol* **2007**, *41*(23):8171-8177. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es071594+.

Matejicek D, Houserova P, and Kuban V. "Combined isolation and purification procedures prior to the high-performance liquid chromatographic-ion-trap tandem mass spectrometric determination of estrogens and their conjugates in river sediments," *J Chromatogr A* **2007**, *1171*(1-2):80-89. http://www.ncbi.nlm.nih.gov/pubmed/17927994. Matejicek D, and Kuban V. "High performance liquid chromatography/ion-trap mass spectrometry for separation and simultaneous determination of ethynylestradiol, gestodene, levonorgestrel, cyproterone acetate and desogestrel," *Anal Chimica Acta* **2007**, *588*(2):304-315. http://www.sciencedirect.com/science/article/B6TF4-4N3GFN7-2/2/924f337426074b28e889a108940a6020.

Matovu E, Stewart ML, Geiser F, Brun R, Maser P, Wallace LJM, et al. "Mechanisms of arsenical and diamidine uptake and resistance in Trypanosoma brucei," *Eukaryotic Cell* **2003**, *2*(5):1003-1008.

Matozzo V, Gagné F, Marin MG, Ricciardi F, and Blaise C. "Vitellogenin as a biomarker of exposure to estrogenic compounds in aquatic invertebrates: A review," *Environment International* **2008**, *34*(4):531-545. http://www.sciencedirect.com/science/article/B6V7X-4R113NY-1/1/60783115b06616de4890f97cf638f418.

Matozzo V, and Marin MG. "Can 17-beta estradiol induce vitellogenin-like proteins in the clam Tapes philippinarum?," *Environmental Toxicology and Pharmacology* **2008**, *26*(1):38-44.

Matsui Y, Ozu T, Inoue T, and Matsushita T. "Occurrence of a veterinary antibiotic in streams in a small catchment area with livestock farms," *Desalination* **2008**, *226*(1-3):215-221. http://www.sciencedirect.com/science/article/B6TFX-4S50V3Y-Y/1/06502c33672a8a8445fd4b62e06c78d4.

Matsumoto FE, and Colus IMS. "Micronucleus frequencies in Astyanax bimaculatus (Characidae) treated with cyclophosphamide or vinblastine sulfate," *Genet Molec Biol* **2000**, *23*(2):489-492.

Matsuura K. "Nestmate recognition mediated by intestinal bacteria in a termite, Reticulitermes speratus," *OIKOS* **2001**, *92*(1):20-26.

Matthews RA, Landis WG, and Mathews GB. "The community conditioning hypothesis and its application to environmental toxicology," *Environ Toxicol Chem* **1996**, *15*(4):597-603.

Matthiessen P, Arnold D, Johnson AC, Pepper TJ, Pottinger TG, and Pulman KGT. "Contamination of headwater streams in the United Kingdom by oestrogenic hormones from livestock farms," *Sci Total Environ* **2006**, *367*(2-3):616-630. http://www.sciencedirect.com/science/article/B6V78-4JHMRRK-3/2/67ab1201ac00329dfbca841c6fff7bde.

Matthiessen P, and Sumpter JP. "Effects of estrogenic substances in the aquatic environment," *Fish Ecotoxicol* **1998**, 86:319-335.

Mattson B. "A voluntary environmental classification system for pharmaceutical substances," *Drug Information J* 2007, *41*(2):187-191. http://cat.inist.fr/?aModele=afficheN&cpsidt=18628560.

Mattson M, and Calbrese E. "When a little poison is good for you," *New Scientist* **2008**, *199*(2668):36-39. http://www.newscientist.com/channel/health/mg19926681.700-when-a-little-poison-is-good-for-you.html.

Mattsson JL. "Mixtures in the real world: The importance of plant self-defense toxicants, mycotoxins, and the human diet," *Toxicol Appl Pharmacol* **2007**, *223*(2):125-132.

http://www.sciencedirect.com/science/article/B6WXH-4MR86FG-5/2/c9062f92756133d2e67bd8bcd8f2456b.

Maul JD, Schuler LJ, Belden JB, Whiles MR, and Lydy MJ. "Effects of the antibiotic ciprofloxacin on stream microbial communities and detritivorous macroinvertebrates," *Environ Toxicol Chem* **2006**, *25*(6):1598-1606.

Maunder RJ, Matthiessen P, Sumpter JP, and Pottinger TG. "Rapid bioconcentration of steroids in the plasma of three-spined stickleback Gasterosteus aculeatus exposed to waterborne testosterone and 17 beta-oestradiol," *J Fish Biol* **2007**, *70*(3):678-690.

Maurer HH, Bickeboeller-Friedrich J, Kraemer T, and Peters FT. "Toxicokinetics and analytical toxicology of amphetamine-derived designer drugs ('Ecstasy')," *Toxicol Lett* **2000**, *112-113*:133-142. http://www.sciencedirect.com/science/article/B6TCR-3YSXYSR-M/2/693a488ead28399350b58803412de183.

Maurer M, Escher BI, Richle P, Schaffner C, and Alder AC. "Elimination of [beta]-blockers in sewage treatment plants," *Wat Res* **2007**, *41*(7):1614-1622. http://www.sciencedirect.com/science/article/B6V73-4N2D5WN-4/2/43b5c79d11c247c2622394fca26e8e25.

Mayeno AN, Yang RSH, and Reisfeld B. "Biochemical Reaction Network Modeling: Predicting Metabolism of Organic Chemical Mixtures," *Environ Sci Technol* **2005**, *39*(14):5363-5371. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0479991.

Mayer P, Tolls J, Hermens JL, and Mackay D. "Equilibrium sampling devices," *Environ Sci Technol* **2003**, *37*(9):184A-191A.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12775037.

Mayon N, Bertrand A, Leroy D, Malbrouck C, Mandiki SNM, Silvestre F, et al. "Multiscale approach of fish responses to different types of environmental contaminations: A case study," *Sci Total Environ* **2006**, *367*(2-3):715-731. http://www.sciencedirect.com/science/article/B6V78-4K428HG-1/1/d9f6fd006c1f923a75311cde6c1d0cf9.

McArdell CS, Molnar E, Nipales NS, and Giger W. "Occurrence of macrolide and sulfonamide antibiotics in the aquatic environment," *Sci Total Environ* **1999**, 225:109-118.

McArdell CS, Molnar E, Suter MJF, and Giger W. "Occurrence and fate of macrolide antibiotics in wastewater treatment plants and in the Glatt Valley Watershed, Switzerland," *Environ Sci Technol* **2003**, *37*(24):5479-5486. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i24/abs/es034368i.html.

McAvoy DC, Schatowitz B, Jacob M, Hauk A, and Eckhoff WS. "Measurement of triclosan in wastewater treatment systems," *Environ Toxicol Chem* **2002**, *21*(7):1323-1329.

McBain AJ, and Gilbert P. "Biocide tolerance and the harbingers of doom," *Internat Biodeterior Biodegrad* **2001**, *47*(2):55-61. http://www.sciencedirect.com/science/article/B6VG6-42SXF0W-2/1/d3351198beb9dfab267cdf15753c82fa.

McBride M, and Wyckoff J. "Emerging Liabilities from Pharmaceuticals and Personal Care Products," *Environ Claims J* **2002**, *14*(2):175-189. http://www.howrey.com/docs/liabilitiespharmaceuticals20020401.pdf.

McCallum EA, Hyung H, Do TA, Huang C-H, and Kim J-H. "Adsorption, desorption, and steady-state removal of 17[beta]-estradiol by nanofiltration membranes," *Journal of Membrane Science* **2008**, *319*(1-2):38-43. http://www.sciencedirect.com/science/article/B6TGK-4S32NMC-1/1/89e933569d979d36e005952213082be0.

McClure EL, and Wong CS. "Solid phase microextraction of macrolide, trimethoprim, and sulfonamide antibiotics in wastewaters," *J Chromatogr A* **2007**, *1169*(1-2):53-62. http://www.sciencedirect.com/science/article/B6TG8-4PJM9M7-3/1/404e24d9d7206aec201e02695561a825.

McCracken DI. "The potential for avermectins to affect wildlife," *Vet Parasitol* **1993**, *48*(1-4):273-280. http://www.ncbi.nlm.nih.gov/pubmed/8346640.

McDowell DC, Huber MM, Wagner M, Von Gunten U, and Ternes TA. "Ozonation of carbamazepine in drinking water: Identification and kinetic study of major oxidation products," *Environ Sci Technol* **2005**, *39*(20):8014-8022.

McFadzen I, Eufemia N, Heath C, Epel D, Moore M, and Lowe D. "Multidrug resistance in the embryos and larvae of the mussel Mytilus edulis," *Mar Environ Res* **2000**, *50*(1-5):319-323. http://www.sciencedirect.com/science/article/B6V7H-41MJ1C2-41/2/501a34767ce71f01aec0c3207df61f7f.

McGlinchey TA, Rafter PA, Regan F, and McMahon GP. "A review of analytical methods for the determination of aminoglycoside and macrolide residues in food matrices," *Analytica Chimica Acta* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TF4-4SMF01S-2/1/675e12d7a753668ddf1823a791965776.

McGovern EM, Tennant S, Mackay C, and Glasgow Pharmacy Audit Programme. "Audit of returned medicines to community pharmacy in Anniesland/Bearsden/Milingavie LHCC," *Pharm World Sci* **2002**, *24*(3):A11-12.

McGovern SL, Caselli E, Grigorieff N, and Shoichet BK. "A common mechanism underlying promiscuous inhibitors from virtual and high-throughput screening," *J Med Chem* **2002**, *45*(8):1712-1722.

McGowan E. "Comment on 'antibiotic resistance genes as emerging contaminants: Studies in Northern Colorado," *Environ Sci Technol* **2007**, *41*(8):2651-2652.

McGregor E, Solomon K, and Hanson M. "Monensin Is Not Toxic to Aquatic Macrophytes at Environmentally Relevant Concentrations," *Arch Environ Contam Toxicol* **2007**, *53*(4):541-551. http://dx.doi.org/10.1007/s00244-007-0002-5.

McKee G. "Keeping drugs out of the toilet: The need for federal action to allow consumer drug donation," *10 Quinnipiac Health L J* **2006**, *45*:76.

http://heinonline.org/HOL/Page?collection=journals&handle=hein.journals/qhlj10&div=6&size=2&rot=0&type=image.

McKeegan KS, Borges-Walmsley MI, and Walmsley AR. "Structural understanding of effluxmediated drug resistance: potential routes to efflux inhibition," *Current Opinion in Pharmacol* **2004**, *4*(5):479-486. http://www.sciencedirect.com/science/article/B6W7F-4D39Y8J-3/2/c001bdaad8d229a249817d187e199fb9.

McKellar QA. "Ecotoxicology and residues of anthelmintic compounds," *Vet Parasitol* **1997**, 72(3-4):413-435. http://www.sciencedirect.com/science/article/B6TD7-3S53W11-C/1/70da47d6acba7b18b5e387f3071c7955.

McKeon DM, Calabrese JP, and Bissonnette GK. "Antibiotic resistant gram-negative bacteria in rural groundwater supplies," *Wat Res* **1995**, *29*(8):1902-1908. http://www.ingentaconnect.com/content/els/00431354/1995/00000029/0000008/art00013 http://dx.doi.org/10.1016/0043-1354(95)00013-B.

McLachlan JA. "Complete list of publications," http://e.hormone.tulane.edu/elabs/Media-EELab/JMcLachlanMedia/John_McLachlan_CV.pdf.

McLachlan JA. "Synergistic Effect of Environmental Estrogens: Report Withdrawn," *Science* **1997**, 277(5325):459d-463. http://www.sciencemag.org.

McLachlan JA, Simpson E, and Martin M. "Endocrine disrupters and female reproductive health," *Best Practice Res Clinical Endocrinol Metabolism* **2006**, *20*(1):63-75. http://www.sciencedirect.com/science/article/B6WBD-4JDTJ3H-6/2/10e5eaa8f30d1f070f8d0354f4a87c49.

McLaren A. "Too late for the midwife toad: stress, variability and Hsp90," *Trends Genetics* **1999**, *15*(5):169-171. http://www.sciencedirect.com/science/article/B6TCY-3WRB4CK-1Y/1/541b17fe378994a271748c6cbe5ace7d.

McMurry LM, Oethinger M, and Levy SB. "Triclosan targets lipid synthesis," *Nature* **1998**, *394*(6693):531-532.

McNulty CA, Boyle P, Nichols T, Clappison DP, and Davey P. "Antimicrobial drugs in the home, United Kingdom," *Emerg Infect Dis* **2006**, *12*(10):1523-1526. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17176566.

McRandle PW. "What Happens to Pharmaceuticals in Wastewater?," *Wat Wastes Digest* **2007**, *122* http://www.wwdmag.com/What-Happens-to-Pharmaceuticals-in-Wastewater--newsPiece14619.

Meatherall R. "Rapid GC-MS Confirmation of urinary amphetamine and methamphetamine as their propylchloroformate derivatives," *J Anal Toxicol* **1996**, *19*:316-322.

Medeiros ID, Siebert MN, de Toledo e Silva G, Moraes MO, Freire Marques MR, and Dias Bainy AC. "Differential gene expression in oyster exposed to sewage," *Mar Environ Res* **2008**, *66*(1):156-157.

http://www.sciencedirect.com/science/article/B6V7H-4RXJYR7-1T/2/87d6b411329f6e410d49f8b9c799741e.

Medical Products Agency. "Environmental effects of pharmaceuticals, cosmetics and hygiene products," Swedish Medical Products Agency, Sweden, August, 2004, 60 pp. http://www.noharm.org/details.cfm?type=document&id=1026.

Medical Website "Online medical terminology dictionary," http://medical.webends.com/.

Medina AR, de Cordova MLF, and Diaz AM. "Sensitive determination of adrenaline by means of a flow-through solid phase UV spectrophotometric sensing device," *Microchimica Acta* **2000**, *134*:101-105.

Mehendale HM. "Amplified interactive toxicity of chemicals at nontoxic levels: mechanistic considerations and implications to public health," *Environ Health Perspect* **1994**, *102*(Suppl 9):139-149. http://www.ncbi.nlm.nih.gov/pubmed/7535226?dopt=Citation.

MEIC Multicentre Evaluation of In Vitro Cytotoxicity. "Milticentre Evaluation of In Vitro Cytotoxicity," pp. http://www.cctoxconsulting.a.se/meic.htm.

Meinerling M, and Daniels M. "A validated method for the determination of traces of UV filters in fish using LC-MS/MS," *Anal Bioanal Chem* **2006**, *386*(5):1465-1473.

Meinertz JR, Greseth SL, Gaikowski MP, and Schmidt LJ. "Chronic toxicity of hydrogen peroxide to Daphnia magna in a continuous exposure, flow-through test system," *Sci Total Environ* **2008**, *392*(2-3):225-232. http://www.sciencedirect.com/science/article/B6V78-4RR2XMV-3/2/3cd7b0098617a22ecca7856717f01b6c.

Melbourne L, and LaiHing K. "Extraction and detection of pharmaceuticals and personal care products in north Alabama water using gas chromatograph-mass spectrometry analysis," *Abstracts of Papers of the Amer Chem Soc* **2003**, *225*(1 March):U372-372.

Melbourne L, Warren A, Asomugha C, and LaiHing K. "Extraction and detection of pharmaceuticals and personal care products in North Alabama waters using gas chromatography-mass spectrometry analysis," *Abstracts of Papers of the Amer Chem Soc* **2002**, *223*(1 April 7):U228-U228.

Melgert BN, Weert B, Schellekens H, Meijer DKF, and Poelstra K. "The pharmacokinetic and biological activity profile of dexamethasone targeted to sinusoidal endothelial and Kupffer cells," *J Drug Targeting* **2003**, *11*:1-10.

Melikhova EV, Kalmykova EN, Eremin SA, and Ermolaeva TN. "Using a piezoelectric flow immunosensor for determining sulfamethoxazole in environmental samples," *J Anal Chem* **2006**, *61*(7):687-693.

Melnick R, Lucier G, Wolfe M, Hall R, Stancel G, Prins G, et al. "Summary of the National Toxicology Program's report of the endocrine disruptors low-dose peer review," *Environ Health Perspect* **2002**, *110*(4):427-431.

Melnick RL. "Is peroxisome proliferation an obligatory precursor step in the carcinogenicity of di(2-ethylhexyl)phthalate (DEHP)," *Environ Health Perspect* **2001**, *109*(5):437-442.

Melo SAS, Bautitz IR, and Nogueira RFP. "Monitoring Pharmaceuticals Photo-Fenton Degradation Process by Using Solid Phase Extraction and Liquid Chromatography," *Anal Lett* **2008**, *41*:1682-1690.

Menapace HM, Diaz N, and Weiss S. "Electrochemical treatment of pharmaceutical wastewater by combining anodic oxidation with ozonation," *J Environ Sci Health Part A* **2008**, *43*:961-968. http://www.ncbi.nlm.nih.gov/pubmed/18569309.

Méndez-Arriaga F, Esplugas S, and Giménez J. "Photocatalytic degradation of non-steroidal antiinflammatory drugs with TiO2 and simulated solar irradiation," *Wat Res* **2008**, *42*(3):585-594. http://www.sciencedirect.com/science/article/B6V73-4PC3SBM-8/1/228d880883a94734ac96f60ea3b22ca9.

Méndez-Arriaga F, Torres-Palma RA, Pétrier C, Esplugas S, Gimenez J, and Pulgarin C. "Ultrasonic treatment of water contaminated with ibuprofen," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4SWN0KJ-2/1/58811d88afa74ffdc97cd4085a3e2404.

Mendoza M, Mijares A, Rojas H, Ramos M, and DiPolo R. "Trypanosoma evansi: A convenient model for studying intracellular Ca2+ homeostasis using fluorometric ratio imaging from single parasites," *Experimental Parasitology* **2001**, *99*:213-219.

Meng Z, Chen W, and Mulchandani A. ".Removal of estrogenic pollutants from contaminated water using molecularly imprinted polymers," *Environ Sci Technol* **2005**, *39*(22):8958-8962. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i22/abs/es0505292.html.

Menshikov V, and Savelieva T. "Risk assessment of organic xenobiotics in the environment," in *Pharmaceuticals in the environment: Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 20, 251-268.

Mensink BJWG, and Montforts MHMM. "The ecological risks of antibiotic resistance in aquatic environments: a literature review," 2007, 60 pp. http://library.wur.nl/WebQuery/catalog/lang/1866681.

Merck. "The Merck Index," Merck Publishing, 2006, 14th ed., 1889 pp. http://www.merckbooks.com/mindex/.

Merkel W. "Pharmaceuticals in the aquatic environment: A new challenge in wastewater and drinking water treatment," *Gas- und WasserfachWasser, Abwasser* **2004**, *145*(5):326-335.

Mersch-Sundermann V, Reinhardt A, and Emig M. "Examination of mutagenicity, genotoxicity, and cogenotoxicity of nitro musks in the environment," *Zentralblatt fur Hygiene und Umweltmedizin* **1996**, *198*(5):429-442.

Mersch-Sundermann V, Schneider H, Freywald C, Jenter C, Parzefall W, and Knasmuller S. "Musk ketone enhances benzo(a)pyrene induced mutagenicity in human derived Hep G2 cells," *Mutation Research/Genetic Toxicology and Environ Mutagenesis* **2001**, *495*:89-96.

Mersch-Sundermanno V, Kevekordeso S, and Jentero C. "Lack of Mutagenicity of Polycyclic Musk Fragrances in Salmonella typhimurium," *Toxicol in Vitro* **1998**, *12*(4):389-393. http://www.sciencedirect.com/science/article/B6TCP-3TXDH5B-7/2/1b80a43e324296c3391ede56fc2db392.

Mersmann P, Scheytt T, and Heberer T. "Column experiments on the transport behavior of pharmaceutically active compounds in the saturated zone," *Acta Hydrochim Hydrobiol* **2003**, *30*(5-6):275-284.

Mes de TZ, Urmenyi AM, Poot AA, Wessling M, Mulder MH, and Zeeman G. "Oestrogen removal from biological pre-treated wastewater within decentralised sanitation and re-use concepts," *Wat Sci Technol* **2006**, *53*(9):141-150.

http://library.wur.nl/sfx_local?sid=WUR%3AWURPUBS&spage=141&epage=150&auinit=TZD&aul ast=Mes%20de&issn=0273-

1223&date=2006&genre=article&volume=53&issue=9&title=Water%20Science%20and%20Technol ogy&atitle=Oestrogen%20removal%20from%20biological%20pre-treated%20wastewater%20within%20decentralised%20sanitation%20and%20re-use%20concepts.

Mestre AS, Pires J, Nogueira JMF, and Carvalho AP. "Activated carbons for the adsorption of ibuprofen," *Carbon* **2007**, *45*(10):1979-1988. http://www.sciencedirect.com/science/article/B6TWD-4NYD8TR-2/2/ba096219c1c4ac21ce4efd04d9184d8e.

Metcalfe CD, Boxall A, Fenner K, Kolpin D, Servos M, Silberhorn E, et al. "Exposure assessment of veterinary medicines in aquatic systems," in *Veterinary medicines in the environment*, Crane M, Barrett K and Boxall ABA, Eds., SETAC Press; Pensacola, FL, 2008, 240.

Metcalfe CD, Koenig BG, Bennie DT, Servos M, Ternes TA, and Hirsch R. "Occurrence of neutral and acidic drugs in the effluents of Canadian sewage treatment plants," *Environ Toxicol Chem* **2003**, *22*(12):2872-2880. <Go to ISI>://CCC:000186959100006.

Metcalfe CD, Metcalfe TL, Kiparissis Y, Koenig BG, Khan C, Hughes RJ, et al. "Estrogenic potency of chemicals detected in sewage treatment plant effluents as determined by in vivo assays with Japanese medaka (Oryzias latipes)," *Environ Toxicol Chem* **2001**, *20*(2):297-308. http://cat.inist.fr/?aModele=afficheN&cpsidt=916295.

Metcalfe CD, Miao XS, Koenig BG, and Struger J. "Distribution of acidic and neutral drugs in surface waters near sewage treatment plants in the lower Great Lakes, Canada," *Environ Toxicol Chem* **2003**, *22*(12):2881-2889. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-627.

Meteyer CU, Rideout BA, Gilbert M, Shivaprasad HL, and Oaks JL. "Pathology and proposed pathophysiology of diclofenac poisoning in free-living and experimentally exposed oriental white-backed vultures (Gyps bengalensis)," *J Wildlife Diseases* **2005**, *41*:707-716.

Metzger JW. "Drugs in municpal landfills and landfill leachates," in *Pharmaceuticals in the environment: sources, fate, effects and risks*, Kummerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 10, 133-137. http://books.google.com/books?id=A3GQsHZCmdsC&pg=RA1-PA133&lpg=RA1-

PA133&dq=Drugs+in+municpal+landfills+and+landfill+leachates&source=web&ots=IrmkhbGTVw &sig=HJFetkzmjYMc1LL0YD6dD-wrJnk&hl=en&sa=X&oi=book_result&resnum=1&ct=result.

Meulenberg EP, Peelen GOH, Lukkien E, and Koopal K. "Immunochemical detection methods for bioactive pollutants," *Internat J Environ Anal Chem* **2005**, *85*(12-13):861-870.

Meyer M. "Incineration of old drugs?," *Med Monatsschr Pharm* **1991**, *14*(12):370. http://www.ncbi.nlm.nih.gov/pubmed/1784265.

Meyer MT. "Use and Environmental Occurrence of Veterinary Pharmaceuticals in the United States," in *Pharmaceuticals in the Environment: Sources, Fate, Effects, and Risks*, Kummerer K, Ed., Springer; Berlin, Germany, 2004.

Meyer MT, Bumgarner JE, Varns JL, Daughtridge JV, Thurman EM, and Hostetler KA. "Use of radioimmunoassay as a screen for antibiotics in confined animal feeding operations and confirmation by liquid chromatography/mass spectrometry," *Sci Total Environ* **2000**, *248*(2-3):181-187. http://www.sciencedirect.com/science/article/B6V78-4007P8H-D/2/ffd4a93285782adac0c3ce67a44a64d2.

Meyrowitsch DW, Toan ND, Hao HT, Dan NT, and Michael E. "A review of the present status of lymphatic filariasis in Vietnam," *Acta Tropica* **1998**, *70*:335-347.

Mezcua M, Gomez MJ, Ferrer I, Aguera A, Hernando MD, and Fernandez-Alba AR. "Evidence of 2,7/2,8-dibenzodichloro-p-dioxin as a photodegradation product of triclosan in water and wastewater samples," *Anal Chimica Acta* **2004**, *524*(1-2):241-247. http://www.sciencedirect.com/science/article/B6TF4-4CYNW6K-5/2/9c1a952ba290d94ab81a5bfb2c3c58e5.

Mezrioui N, and Baleux B. "Resistance patterns of E. coli strains isolated from domestic sewage before and after treatment in both aerobic lagoon and activated sludge," *Wat Res* **1994**, *28*(11):2399-2406. http://cat.inist.fr/?aModele=afficheN&cpsidt=4245214.

Mezyk SP, Neubauer TJ, Cooper WJ, and Peller JR. "Free-Radical-Induced Oxidative and Reductive Degradation of Sulfa Drugs in Water: Absolute Kinetics and Efficiencies of Hydroxyl Radical and Hydrated Electron Reactions," *J Phys Chem A* **2007**, *111*(37):9019-9024. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jp073990k.

Miao XS, and Metcalfe CD. "Determination of carbamazepine and its metabolites in aqueous samples using liquid chromatography-electrospray tandem mass spectrometry," *Anal Chem* **2003**, *75*(15):3731-3738.

Miao XS, Yang JJ, and Metcalfe CD. "Carbamazepine and Its Metabolites in Wastewater and in Biosolids in a Municipal Wastewater Treatment Plant," *Environ Sci Technol* **2005**, *39*(19):7469-7475. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es050261e.

Miao X-S, Bishay F, Chen M, and Metcalfe CD. "Occurrence of antimicrobials in the final effluents of wastewater treatment plants in Canada," *Environ Sci Technol* **2004**, *38*(13):3533-3541. http://cat.inist.fr/?aModele=afficheN&cpsidt=15918726. Miao X-S, Koenig BG, and Metcalfe CD. "Analysis of acidic drugs in the effluents of sewage treatment plants using liquid chromatography-electrospray ionization tandem mass spectrometry," *J Chromatogr A* **2002**, *952*(1-2):139-147. http://www.sciencedirect.com/science/article/B6TG8-453NNV1-4/1/bf21f687538a35613b9352bdb46405b8.

Miao X-S, and Metcalf CD. "Determination of carbamazepine and its metabolites in aqueous samples using liquid chromatography–electrospray tandem mass spectrometry," *Anal Chem* **2003**, *75*(15):3731-3738.

Miao X-S, and Metcalfe CD. "Determination of cholesterol-lowering statin drugs in aqueous samples using liquid chromatography-electrospray ionization tandem mass spectrometry," *J Chromatogr A* **2003**, *998*(1-2):133-141. http://www.sciencedirect.com/science/article/B6TG8-48R1GG2- 8/2/087a160ff89bd026ca54bf1212ba8850.

Miao X-S, and Metcalfe CD. "Determination of pharmaceuticals in aqueous samples using positive and negative voltage switching microbore liquid chromatography/electrospray ionization tandem mass spectrometry," *J Mass Spectrom* **2003**, *38*(1):27-34.

Miao X-S, and Metcalfe CD. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of neutral and acidic pharamaceuticals by liquid chromatography mass spectrometry," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 2.3, 133-156.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Micael J, Reis-Henriques MA, Carvalho AP, and Santos MM. "Genotoxic effects of binary mixtures of xenoandrogens (tributyltin, triphenyltin) and a xenoestrogen (ethinylestradiol) in a partial life-cycle test with Zebrafish (Danio rerio)," *Environ Internat* **2007**, *33*(8):1035-1039. http://www.sciencedirect.com/science/article/B6V7X-4P5RVW7-1/1/c00e19f5089854a18921aef573f2d406.

Michelini E, Mirasoli M, Karp M, Virta M, and Roda A. "Development of a Bioluminescence Resonance Energy-Transfer Assay for Estrogen-Like Compound in Vivo Monitoring," *Anal Chem* **2004**, *76*(23):7069-7076. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac048914h.

Midtvedt T. "The ECO-SHADOW concept - A new way of following environmental impacts of antimicrobials," in *Pharmaceuticals in the environment: Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 23, 311-316.

Midtvedt T, and Norin E. "Antibiotika och ekologi (Antibiotics and ecology)," Lövens Läkemedel, Malmö, 1997, pp.

Miege C, Choubert JM, Ribeiro L, Eusebe M, and Coquery M. "Removal efficiency of pharmaceuticals and personal care products with varying wastewater treatment processes and operating conditions - conception of a database and first results," *Water Sci Technol* **2008**, *57*(1):49-56.

Miege C, Favier M, Brosse C, Canler J-P, and Coquery M. "Occurrence of betablockers in effluents of wastewater treatment plants from the Lyon area (France) and risk assessment for the downstream

rivers," *Talanta* **2006**, *70*(4):739-744. http://www.sciencedirect.com/science/article/B6THP-4KNKBN5-1/2/51077edda68b6bd13f0937c6ff049ed8.

Mifflin AL, Konek CT, and Geiger FM. "Tracking oxytetracyline mobility across environmental interfaces by second harmonic generation," *J Physical Chem* **2006**, *110*(45):22577-22585.

Migliore L, Alessi E, Mattei D, Mancini L, Pierdominici E, and Thaller MC. "Incidence of antibiotic resistance in the microbial community of the Tiber river (Rome)," *Fres Environ Bull* **2006**, *15*(9A, SI):1037-1040.

Migliore L, Brambilla G, Casoria P, Civitareale C, Cozzolino S, and Gaudio L. "Effect of sulphadimethoxine contamination on barley (Hordeum distichum L., Poaceae, Liliposida)," *Agric Ecosystems Environ* **1996**, *60*(2-3):121-128. http://www.sciencedirect.com/science/article/B6T3Y-3W31B8V-4/2/1b03b23b0f2a7b18ea4941f6b4ba24e7.

Migliore L, Civitareale C, Brambilla G, and Delupis GDD. "Toxicity of several important agricultural antibiotics to Artemia," *Wat Res* **1997**, *31*(7):1801-1806. http://www.sciencedirect.com/science/article/B6V73-3T7J092-3T/2/e16aa3ec60aca1ff0ab342d0a1d9ecaa.

Migliore L, Civitareale C, Cozzolino S, Casoria P, Brambilla G, and Gaudio L. "Laboratory models to evaluate phytotoxicity of sulphadimethoxine on terrestrial plants," *Chemosphere* **1998**, *37*(14-15):2957-2961. http://www.sciencedirect.com/science/article/B6V74-3VNHNVS-T/2/60fb88031dedbbf463607c240faf0ccd.

Migliore L, Cozzolino S, and Fiori M. "Phytotoxicity to and uptake of flumequine used in intensive aquaculture on the aquatic weed, Lythrum salicaria L," *Chemosphere* **2000**, *40*(7):741-750. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-34/2/f9e4c979221823b543f0d8a38fa04275.

Migliore L, Cozzolino S, and Fiori M. "Phytotoxicity to and uptake of enrofloxacin in crop plants," *Chemosphere* **2003**, *52*(7):1233-1244. http://www.sciencedirect.com/science/article/B6V74-48GDVT6-5/2/838092c5a6d9d74cecc94915559ce55.

migliore L, Dojmi de Delupis G, Cappellaro H, and Brambilla G. "Drugs in aquaculture monitoring of cantamination and proposal for its reduction by the use of Artemia salina (L) in lakes and reservoirs," International Conference on the Conservation and Management of Lakes "Strategies for Lake Ecosystems beyond 2000, May 17-21, 1993, 291-294. http://dspace.iss.it/dspace/handle/2198/-2012?mode=full&submit_simple=Show+full+item+record.

Mihaich EM, Borgert CJ, Brighty GC, Kortenkamp A, Laenge R, Snyder SA, et al. "Evaluating simple and complex mixtures containing pharamaceuticals in the environment," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 7, 239-267.

Mikula P, Dobsikova R, and Svobodova Z. "The evaluation of xenoestrogenic potential of propylparaben in zebrafish (Danio rerio)," *Toxicol Lett* **2006**, *164*(Supplement 1):S169. http://www.sciencedirect.com/science/article/B6TCR-4KMYM5B-D8/2/291808cfb9c736f9b7ce38e1af28c2ed.

Milius S. "Fish nature: Sometimes shy, sometimes bold," Sci News 1998, 154:263 pp.

Milius S. "Dogs and cats in their dotage," *Sci News* **1998**, *154*(16):252. http://www.sciencenews.org/pages/pdfs/data/1998/154-16/15416-16.pdf.

Milius S. "Prozac works on clams and mussels," *Sci News* **1998**, *153*(4):63. http://findarticles.com/p/articles/mi_m1200/is_n4_v153/ai_20212410.

Millar J, MacKinnon W, Struthers MV, and Vass C. "A pilot study to investigate the use of installment dispensing as a method of reducing drug wastage owing to adverse drug reactions," *Br J Gen Pract* **2003**, *53*(492):550-552.

Miller C. "Drug Free Water Act of 2008," **2008**, *H.R.* 6451:3. <u>http://www.macombcountymi.gov/publichealth/index.htm</u>.

Miller G. "Drug Tarteting: Breaking down barriers," Science 2002, 297:1116-1118.

Miller MA, and Schram ST. "Growth and contaminant dynamics of Lake Superior lake trout," *J Great Lakes Res* 2000, (26):102-111.

Miller MR, Wentz E, and Ong SK. "Acetaminophen alters estrogenic responses in vitro: inhibition of estrogen-dependent vitellogenin production in trout liver cells," *Toxicol Sci* **1999**, *48*(1):30-37. http://toxsci.oxfordjournals.org/cgi/content/abstract/48/1/30.

Miller RA, Walker RD, Baya A, Clemens K, Coles M, Hawke JP, et al. "Antimicrobial susceptibility testing of aquatic bacteria: Quality control disk diffusion ranges for Escherichia coli ATCC 25922 and Aeromonas salmonicida subsp salmonicida ATCC 33658 at 22 and 28C," *J Clin Microbio* **2003**, *41*(9):4318-4323.

Miller RA, Walker RD, Carson J, Coles M, Coyne R, Dalsgaard I, et al. "Standardization of a broth microdilution usceptibility testing method to determine minimum inhibitory concentrations of aquatic bacteria," *Diseases Aquatic Organisms* **2005**, *64*(3):211-222.

Miller TR, Heidler J, Chillrud SN, DeLaquil A, Ritchie JC, Mihalic JN, et al. "Fate of Triclosan and Evidence for Reductive Dechlorination of Triclocarban in Estuarine Sediments," *Environ Sci Technol* **2008**, *42*(12):4570-4576. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702882g.

Mills GA, Vrana B, Allan I, Alvarez DA, Huckins JN, and Greenwood R. "Trends in monitoring pharmaceuticals and personal-care products in the aquatic environment by use of passive sampling devices," *Anal Bioanal Chem* **2007**, *387*(4):1153-1157. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17077970.

Mills LJ, and Chichester C. "Review of evidence: Are endocrine-disrupting chemicals in the aquatic environment impacting fish populations?," *Sci Total Environ* **2005**, *343*(1-3):1-34. http://www.sciencedirect.com/science/article/B6V78-4FNDRY1-1/2/eda8c8029097a2eb21bebee7662add85. Milstein M. "Park sewage systems on the verge of failure, internal report states," *Billingsgazettecom* **1999**, (8 March) http://www.billingsgazette.com/wyoming/990308_wyo015.html.

Mimeault C, Trudeau VL, and Moon TW. "Waterborne gemfibrozil challenges the hepatic antioxidant defense system and down-regulates peroxisome proliferator-activated receptor beta (PPARβ) mRNA levels in male goldfish (Carassius auratus)," *Toxicology* **2006**, *228*(2-3):140-150. http://www.sciencedirect.com/science/article/B6TCN-4KRFV4Y-1/2/2ffd52c6723a2ac0e9b3fbd056e9a980.

Mimeault C, Woodhouse AJ, Miao XS, Metcalfe CD, Moon TW, and Trudeau VL. "The human lipid regulator, gemfibrozil bioconcentrates and reduces testosterone in the goldfish, Carassius auratus," *Aqua Toxicol* **2005**, *73*(1):44-54. http://www.sciencedirect.com/science/article/B6T4G-4G0DDTY-1/2/259b2139c2668c86c677abdbd0a370e5.

Minagh E, Hernan R, O'Rourke K, Lyng FM, and Davoren M. "Aquatic ecotoxicity of the selective serotonin reuptake inhibitor sertraline hydrochloride in a battery of freshwater test species," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6WDM-4ST45W7-4/1/44565fbc70fd8ef2021a70f56b772c82.

Minier C, Borghi V, Moore MN, and Porte C. "Seasonal variation of MXR and stress proteins in the common mussel, Mytilus galloprovincialis," *Aqua Toxicol* **2000**, *50*(3):167-176. http://www.sciencedirect.com/science/article/B6T4G-41189TD-2/2/fc150586d21e7159334945c2a2d87619.

Ministry for the Environment and Nature Conservations Agriculture and Consumer Protection of the State of North Rhine Westphalia. "Untersuchungen zum eintrag und zur elimination von gefhrlichen stoffen in kommunalen klaranlagen," STP Cologne Stammheim, Dusseldorf, Germany, 2004, pp.

Minnesota Pollution Control Agency. "Endocrine Disrupting Compounds: A Report to the Minnesota Legislature," January 15, 2008, pp. http://archive.leg.state.mn.us/docs/2008/mandated/080064.pdf.

Mintzer J. "Anticholinergic Side-effects of drugs in elderly people," *J Royal Soc Med* **2000**, *93*:457-462.

Miracle A, Ankley G, and Lattier D. "Expression of two vitellogenin genes (vg1 and vg3) in fathead minnow (Pimephales promelas) liver in response to exposure to steroidal estrogens and androgens," *Ecotoxicol Environ Safety* **2006**, *63*(3):337-342. http://www.sciencedirect.com/science/article/B6WDM-4J6X3RR-3/2/42e9e248ee363175549ad6ff7058964e.

Miralto A, Barone G, Romano G, Poulet SA, Ianora A, Russo GL, et al. "The insidious effect of diatoms on copepod reproduction," *Nature* **1999**, *402*(6758):173-176. http://dx.doi.org/10.1038/46023 http://www.nature.com/nature/journal/v402/n6758/suppinfo/402173a0 S1.html.

Miranda CD, and Zemelman R. "Antibiotic Resistant Bacteria in Fish from the Concepción Bay, Chile," *Mar PollutBull* **2001**, *42*(11):1096-1102. http://www.sciencedirect.com/science/article/B6V6N-44J1C0B-S/2/9492396e8bca3f10a110ca569dfde7c4. Mispagel J, and Gray JT. "Antibiotic resistance from wastewater oxidation ponds," *Wat Environ Res* **2005**, *77*(7):2996-3002.

MISTRA "MistraPharma," MISTRA, the foundation for strategic environmental research http://www.mistra.org/mistra/english/researchresults/researchprogrammes/activeprogrammes/mistraph arma.4.744b7eb1172d57470a80006763.html.

Mistry P, Stewart AJ, Dangerfield W, Okiji S, Liddle C, Bootle D, et al. "In Vitro and in Vivo Reversal of P-Glycoprotein-mediated Multidrug Resistance by a Novel Potent Modulator, XR9576," *Cancer Res* **2001**, *61*(2):749-758. http://cancerres.aacrjournals.org/cgi/content/abstract/61/2/749.

Mitani K, Fujioka M, and Kataoka H. "Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2005**, *1081*(2):218-224. http://www.sciencedirect.com/science/article/B6TG8-4GCXJMG-7/2/6d217894dabfc7d88d4b32521c3cacc9.

Mitani K, and Kataoka H. "Determination of fluoroquinolones in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry," *Anal Chimica Acta* **2006**, *562*(1):16-22. http://www.sciencedirect.com/science/article/B6TF4-4J9X33R-8/2/663973e1df325e8adf538158dd5857e3.

Mitjans D, and Ventura F. "Determination of musks and other fragrance compounds at ng/L levels using CLSA (closed loop stripping analysis) and GC/MS detection," *Wat Sci Technol* **2004**, *50*(5):119-123.

Mitjans D, and Ventura F. "Determination of fragrances at ng/L levels using CLSA and GC/MS detection," *Wat Sci Technol* **2005**, *52*(10-11):145-150.

Mitsui N, Tooi O, and Kawahara A. "Vitellogenin-inducing activities of natural, synthetic, and environmental estrogens in primary cultured Xenopus laevis hepatocytes," *Comp Biochem Physiol C Toxicol Pharmacol* **2007**, *146*(4):581-587. http://www.ncbi.nlm.nih.gov/pubmed/17707135.

Mittal A, Kaur D, and Mittal J. "Batch and Bulk Removal of a Triarymethane Dye - Fast Green FCF, from Wastewater by Adsorption over Waste Materials," *Journal of Hazardous Materials* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SY6W8X-9/1/544b0676752daaed9ed5de14d80b7d94.

Mlot C. "Antidotes for antibiotic use on the farm," Bioscience 2000, 50(11):955-960.

Moeder M, and Langez F. "Membrane-assisted liquid-liquid extraction trace analysis of pharmaceutical compounds in aquatic environments," *LC GC Europe* **2007**, *20*(2):97-103.

Moeder M, Schrader S, Winkler M, and Popp P. "Solid-phase microextraction-gas chromatographymass spectrometry of biologically active substances in water samples," *J Chromatogr A* **2000**, *873*(1):95-106. http://www.sciencedirect.com/science/article/B6TG8-3YRVDCX-B/2/f01c0adde6310bf33eff4e905fa91799. Moeller N, Mueller-Seitz E, Scholz O, Hillen W, Bergwerff AA, and Petz M. "A new strategy for the analysis of tetracycline residues in foodstuffs by a surface plasmon resonance biosensor," *European Food Res Technol* **2007**, *224*(3):285-292. http://dx.doi.org/10.1007/s00217-006-0392-z.

Moens LN, Smolders R, van der Ven K, van Remortel P, Del-Favero J, and De Coen WM. "Effluent impact assessment using micro array-based analysis in common carp: A systems toxicology approach," *Chemosphere* **2007**, *67*(11):2293-2304.

Moens LN, van der Ven K, Van Remortel P, Del-Favero J, and De Coen WM. "Expression profiling of endocrine-disrupting compounds using a customized cyprinus carpio cDNA microarray," *Toxicol Sci* **2006**, *93*(2):298-310.

Moffatt AC, Osselton MD, and Widdop B. "Clarke's Analysis of Drugs and Poisons," The Pharmaceutical Press, 2004, 3rd ed., pp. http://www.medicinescomplete.com/mc/clarke/current/toc.htm.

Moffitt CM, and Kiryu Y. "Acute and chronic toxicity following parenteral application of erythromycin to maturing spring Chinook salmon held at two water temperatures," *J Aquatic Animal Health* **2001**, *13*:8-19.

Mogensen BB, Pritzl G, Rastogi S, Glesne O, Hedlund B, Hirvi J-P, et al. "Musk compounds in the Nordic environment," TemaNord 2004:503, 2004, 69 pp. <u>http://www.ust.is/ness/docs/Musk-publication2004.pdf</u>.

Mohan D, Singh KP, and Ghosh D. "Removal of α -Picoline, β -Picoline, and γ -Picoline from Synthetic Wastewater Using Low Cost Activated Carbons Derived from Coconut Shell Fibers," *Environ Sci Technol* **2005**, *39*(13):5076-5086. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048282g.

Mohan SV, Prakasham RS, Satyavathi B, Annapurna J, and Ramakrishna SV. "Biotreatability studies of pharmaceutical wastewater using an anaerobic suspended film contact reactor," *Water Sci Technol* **2001**, *43*(2):271-276.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =11380190.

Mohle E, Kempter C, Kern A, and Metzger JW. "Examination of the degradation of drugs in municipal sewage plants using liquid chromatography-electrospray mass spectrometry," *Acta Hydrochim Hydrobiol* **1999**, 27(6):430-436. http://cat.inist.fr/?aModele=afficheN&cpsidt=1278305.

Mohle E, and Metzger JW. "Drugs in municipal sewage effluents: screening and biodegradation studies," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series, 2001, Chapter 11, 192-205.

Moideen SVK, Houghton PJ, Rock P, Croft SL, and Aboagye-Nyame F. "Activity of extracts and naphthoquinones from Kigelia pinnata against Trypanosorna brucei brucei and Trypanosoma brucei rhodesiense," *Planta Medica* **1999**, *65*:536-540.

Moldovan Z. "Occurrences of pharmaceutical and personal care products as micropollutants in rivers from Romania," *Chemosphere* **2006**, *64*(11):1808-1817. http://www.sciencedirect.com/science/article/B6V74-4JGJJ1T-4/2/f4091b67e0923a00d1a2e6b24e027f3e.

Moldovan Z, Schmutzer G, Tusa F, Calin R, and Alder AC. "An overview of pharmaceuticals and personal care products contamination along the river Somes watershed, Romania," *J Environ Monit* **2007**, *9*(9):986-993.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17726560.

Molina-Molina J-M, Escande A, Pillon A, Gomez E, Pakdel F, Cavaillès V, et al. "Profiling of benzophenone derivatives using fish and human estrogen receptor-specific in vitro bioassays," *Toxicol Appl Pharmacol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6WXH-4T3DCRS-1/1/cf699cbf3dcbd22fc68edfaf81492099.

Molinari R, Argurio P, Poerio T, and Bonaddio F. "Photo assisted fenton in a batch and a membrane reactor for degradation of drugs in water," *Sep Sci Technol* **2007**, *42*(7):1597-1611.

Molinari R, Argurio P, Poerio T, and Caruso A. "Stagnant sandwich and supported liquid membrane systems for removal of pharmaceuticals in water," *Desalination* **2006**, *199*(1-3):529-531. http://www.sciencedirect.com/science/article/B6TFX-4KKPCMX-75/2/c2b97b4dd106bdbc507c722ee5b2c85c.

Molinari R, Caruso A, Argurio P, and Poerio T. "Diclofenac Transport through Stagnant Sandwich and Supported Liquid Membrane Systems," *Ind Eng Chem Res* **2006**, *45*(26):9115-9121. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ie0607088.

Molinari R, Caruso A, Argurio P, and Poerio T. "Degradation of the drugs Gemfibrozil and Tamoxifen in pressurized and de-pressurized membrane photoreactors using suspended polycrystalline TiO₂ as catalyst," *J Membrane Sci* **2008**, *319*(1-2):54-63. http://www.sciencedirect.com/science/article/B6TGK-4S575TM-1/1/23b597c6ae30e352277c25449bbdaf02.

Molinari R, Pirillo F, Loddo V, and Palmisano L. "Heterogeneous photocatalytic degradation of pharmaceuticals in water by using polycrystalline TiO2 and a nanofiltration membrane reactor," *Catalysis Today* **2006**, *118*(1-2):205-213.

Moller P, Morteani G, and Dulski P. "Anomalous gadolinium, cerium, and yttrium contents in the Adige and Isarco river waters and in the water of their tributaries (Provinces Trento and Bolzano/Bozen, NE Italy)," *Acta Hydrochim Hydrobiol* **2003**, *31*(3):225-239.

Moller P, Paces T, Dulski P, and Morteani G. "Anthropogenic Gd in surface water, drainage system, and the water supply of the city of Prague, Czech Republic," *Environ Sci Technol* **2002**, *36*(11):2387-2394. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i11/abs/es010235q.html.

Molyneux DH. "Vectorborne parasitic diseases - an overview of recent changes," *Internat J Parasitol* **1998**, 28:927-934.

Mondragon A, Wilkinson SR, Taylor MC, and Kelly JM. "Optimization of conditions for growth of wild-type and genetically transformed Trypanosoma cruzi on agarose plates," *Parasitol* **1999**, *118*:461-467.

Monika Möder PBFLSSWL. "Determination of Endocrine Disrupting Compounds and Acidic Drugs in Water by Coupling of Derivatization, Gas Chromatography and Negative-Chemical Ionization Mass Spectrometry," *CLEAN - Soil, Air, Water* **2007**, *35*(5):444-451. http://dx.doi.org/10.1002/clen.200720001.

Monosson E. "Chemical mixtures: considering the evolution of toxicology and chemical assessment," *Environ Health Perspect* **2005**, *113*(4):383.

Mons MN, Van Genderen J, and Van Dijk-Looijard AM. "Inventory of the presence of pharmaceuticals in Dutch water," Abschlussbericht des Projektes von Vewin, RIWA und KIWA Nieuwegein, Niederlande, 2000, pp.

Montague P, "Drugs in the water," *Rachel's Environ Health Weekly* 3 September, 1998, http://www.rachel.org/bulletin/index.cfm?St=4 [select back issue #614].

Montague P. "Emptying our medicine cabinets into our waters," Earth Island J 1999, 14(1):30.

Montague P, "Pay dirt from the human genome," *Rachel's Environ Health Weekly* 6 July, 2000, http://www.rachel.org/bulletin/index.cfm?St=4 [select back issue #702].

Montforts M, Spindler P, Taylor D, and Williams R. "Joint DIA/HESI/SAPS Conference on Environmental Risk Assessment of Human Medicines," Stockholm Upplands Vasby, Sweden, May 22-23, 2006.

Montforts MHMM. "Environmental Risk Assessment for Veterinary Medicinal Products Part 1. Nonimmunological drug substances. Second update," 18 Feb, 2004, 88 pp. http://hdl.handle.net/10029/8891.

Montforts MHMM. "Validation of the EU environmental risk assessment for veterinary medicines," Doctoral Dissertation, Bilthoven, The Netherlands, 2005. 173 pp.

Montforts MHMM. "Validation of the exposure assessment for veterinary medicinal products," *Sci Total Environ* **2006**, *358*(1-3):121-136. http://www.sciencedirect.com/science/article/B6V78-4G7DXYD-3/2/e559b26038ddc1eda7ac2cc9f27abcaa.

Montforts MHMM. "The trigger values in the environmental risk assessment for (veterinary) medicines in the European Union: a critical appraisal; De drempelwaarden in de milieurisicobeoordeling voor (dier)geneesmiddelen in de Europese Unie: een kritische beschouwing," 6 Dec, 2007, 45 pp. http://hdl.handle.net/10029/7379 http://rivm.openrepository.com/rivm/handle/10029/7379.

Montforts MHMM, Brandt I, and Hutchinson TH. "Summary of workshop on environmental assessment of human medicines: Development and use of aquatic toxicity data," *Drug Information J* **2007**, *41*(2):203-209.

Montforts MHMM, and de Knecht JA. "European medicines and feed additives regulation are not in compliance with environmental legislation and policy," *Toxicol Lett* **2002**, *131*(1-2):125-136. http://www.sciencedirect.com/science/article/B6TCR-45C1T7R-5/2/441569e4085d55e6275120687880d9b5.

Montforts MHMM, Kalf DF, van Vlaardingen PLA, and Linders JBHJ. "The exposure assessment for veterinary medicinal products," *The Science of The Total Environment* **1999**, *225*(1-2):119-133. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-D/1/2bbbff8ff4bacb27e026740a61cd2837.

Montforts MHMM, van Rijswick HFMW, and Udo de Haes HA. "Legal constraints in EU product labelling to mitigate the environmental risk of veterinary medicines at use," *Reg Toxicol Pharmacol* **2004**, *40*(3):327-335. http://www.sciencedirect.com/science/article/B6WPT-4DSW68X-4/2/0aded4b5cd235272a66b7af39df2fd20.

Montiel A. "Drug residues and treatment of hospital effluent," *Environment, Risques & Sante* **2006**, *5*(4):296-300. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/02/resume.md?type=text.html.

Moore DRJ, and Caux P-Y. "Estimating low toxic effects," *Environ Toxicol Chem* **1997**, *16*(4):794-801. http://dx.doi.org/10.1897%2F1551-5028%281997%29016%3C0794%3AELTE%3E2.3.CO%3B2.

Moore MN. "Do nanoparticles present ecotoxicological risks for the health of the aquatic environment?," *Environ Internat* **2006**, *32*(8):967-976. http://www.sciencedirect.com/science/article/B6V7X-4KFV3DR-1/2/3279168735d8394cdfdadbe6e8af348f.

Moore MR, and Shaw G. "Aquatic Toxicology," Therapeut Drug Monit 2000, 22(1):58-60.

Moore MT, Greenway SL, Farris JL, and Guerra B. "Assessing caffeine as an emerging environmental concern using conventional approaches," *Arch Environ Contam Toxicol* **2008**, *54*(1):31-35.

Moosvi S, and Madamwar D. "An integrated process for the treatment of CETP wastewater using coagulation, anaerobic and aerobic process," *Bioresource Technol* **2007**, *98*(17):3384-3392. http://www.sciencedirect.com/science/article/B6V24-4NX2VKP-1/2/5b45648327b8bfd05b748c1271ac259b.

Morales S, Canosa P, Rodriguez I, Rubi E, and Cela R. "Microwave assisted extraction followed by gas chromatography with tandem mass spectrometry for the determination of triclosan and two related chlorophenols in sludge and sediments," *J Chromatogr A* **2005**, *1082*(2):128-135. http://www.sciencedirect.com/science/article/B6TG8-4GDBTDF-6/2/f94e4b36ccb9f3e3a4cd39cbd4cef139.

Morales-Munoz S, Luque-Garcia JL, and Luque de Castro MD. "Continuous microwave-assisted extraction coupled with derivatization and fluorimetric monitoring for the determination of fluoroquinolone antibacterial agents from soil samples," *J Chromatogr A* **2004**, *1059*(1-2):25-31.

http://www.sciencedirect.com/science/article/B6TG8-4DTT6PN-3/2/5da278d670780bfaa2456ae4ecb0f59a.

Morales-Munoz S, Luque-Garcia JL, Ramos MJ, Fernandez-Alba A, and Luque de Castro MD. "Sequential superheated liquid extraction of pesticides, pharmaceutical and personal care products with different polarity from marine sediments followed by gas chromatography mass spectrometry detection," *Anal Chimica Acta* **2005**, *552*(1-2):50-59. http://www.sciencedirect.com/science/article/B6TF4-4H2PJR8-1/2/d92161768c4a666391e4bb8e708c4ab3.

Morales-Munoz S, Luque-Garcia JL, Ramos MJ, Martinez-Bueno MJ, and Luque de Castro MD. "Sequential automated focused microwave-assisted Soxhlet extraction of compounds with different polarity from marine sediments prior to gas chromatography mass spectrometry detection," *Chromatographia* **2005**, *62*(1-2):69-74.

Moreira AB, Dias ILT, Neto GO, Zagatto EAG, and Kubota LT. "Solid-phase fluorescence spectroscopy for the determination of acetylsalicylic acid in powdered pharmaceutical samples," *Anal Chimica Acta* **2004**, *523*(1):49-52. http://www.sciencedirect.com/science/article/B6TF4-4D2FM96-1/2/76965f19eed0fe4c48742a110cd5148b.

Moreira AB, Dias ILT, Neto GO, Zagatto EAG, and Kubota LT. "Simultaneous spectrofluorimetric determination of paracetamol and caffeine in pharmaceutical preparations in solid-phase using partial least squares multivariate calibration," *Anal Lett* **2006**, *39*:349-360.

Moreira PI, Custódio JBA, Nunes E, Moreno A, Seiça R, Oliveira CR, et al. "Estradiol affects liver mitochondrial function in ovariectomized and tamoxifen-treated ovariectomized female rats," *Toxicol Appl Pharmacol* **2007**, *221*(1):102-110. http://www.sciencedirect.com/science/article/B6WXH-4N43RMD-2/1/f707d152004c4bc26ef124e8b3f71ebd.

Moreno Galvez A, Garcia Mateo JV, and Martinez Calatayud J. "Study of various indicating redox systems on the indirect flow-injection biamperometric determination of pharmaceuticals," *Anal Chimica Acta* **1999**, *396*(2-3):161-170. http://www.sciencedirect.com/science/article/B6TF4-3XD3R8V-7/2/71fb6377c6c2a4d4bcabc2804667a191.

Moreno Galvez A, Garcia Mateo JVG, and Martinez Calatayud J. "Simultaneous dissolution profiles of two drugs in pharmaceutical formulations by an FIA manifold," *J Pharmaceutical Biomed Anal* **2002**, *27*(6):1027-1036. http://www.sciencedirect.com/science/article/B6TGX-452D6XB-G/2/9eb03c72c3986ae07ca6bc83f980641d.

Moreno-Caselles J, Prats D, Moral R, Perez-Murcia MD, Perez-Espinosa A, Paredes C, et al. "Effects of linear alkylbenzene sulphonates (LASs) on exogenous organic matter content and evolution in sewage sludge-amended soils," *Comm Soil Sci Plant Anal* **2006**, *37*(15-20):2615-2625.

Morgan ME, Liu K, and Anderson BD. "Microscale titrimetric and spectrophotometric methods for determination of ionization constants and partition coefficients of new drug candidates," *J Pharm Sci* **1998**, 87:238-245.

Morgan MJ. "Memory deficits associated with recreational use of 'ecstasy' (MDMA)," *Psychopharmacology* **1999**, *141*:30-36.

Morgan TM. "The economic impact of wasted prescription medication in an outpatient population of older adults," *J Fam Pract* **2001**, *50*(9):779-781. http://www.jfponline.com/Pages.asp?AID=2323&UID=.

Mori T, Iida M, Ishibashi H, Kohra S, Takao Y, Takemasa T, et al. "Hormonal activity of polycyclic musks evaluated by reporter gene assay," *Environ Sci* **2007**, *14*(4):195-202. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17762842.

Mori T, Morita F, Inokuchi A, Takao Y, Kohra S, Tominaga N, et al. "Ecotoxicological effect of polycyclic musks on Caenorhabditis elegans," *J Health Sci* **2006**, *52*(3):276-282.

Morinigo MA, Cornax R, Castro D, Jimenez-notaro M, Romero P, and Borrego JJ. "Antibiotic resistance of Salmonella strains isolated from natural polluted waters," *J Appl Microbiol* **1990**, *68*(3):297-302. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1365-2672.1990.tb02578.x.

Moriyama K, Matsufuji H, Chino M, and Takeda M. "Identification and behavior of reaction products formed by chlorination of ethynylestradiol," *Chemosphere* **2004**, *55*(6):839-847. http://www.sciencedirect.com/science/article/B6V74-4BG3HS8-4/2/16230c96b2375d3bd88d8da30b471fdd.

Morley MC, Snow DD, Fox A, and Youngblood D. "Emerging chemicals and analytical methods," *Wat Environ Res* **2004**, *76*(6):481-530.

Morohoshi K, Yamamoto H, Kamata R, Shiraishi F, Koda T, and Morita M. "Estrogenic activity of 37 components of commercial sunscreen lotions evaluated by in vitro assays," *Toxicol in Vitro* **2005**, *19*(4):457-469. http://www.sciencedirect.com/science/article/B6TCP-4FJTP0T-2/2/3c33297c700b0a119a59da1ee77fbeb2.

Morrall D, McAvoy D, Schatowitz B, Inauen J, Jacob M, Hauk A, et al. "A field study of triclosan loss rates in river water (Cibolo Creek, TX)," *Chemosphere* **2004**, *54*(5):653-660. http://www.sciencedirect.com/science/article/B6V74-49JX6WF-6/2/6555fef720bb638af020d8bc5c5526d8.

Morré J. "Chemical hormesis in cell growth: a molecular target at the cell surface," *J Appl Toxicol* **2000**, *20*:157-163.

Morris CE, Kinkel LL, Xiao K, Prior P, and Sands DC. "Surprising niche for the plant pathogen Pseudomonas syringae," *Infection, Genetics and Evolution* **2007**, *7*(1):84-92. http://www.sciencedirect.com/science/article/B6W8B-4K8SC1X-2/2/80ff9b27f1c1ed5b148b3971372e688f.

Morris JM, Jin S, and Cui K. "Removal of endocrine active compounds using layered double hydroxide material," *Chemical Engineering Journal* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TFJ-4SMNY13-1/1/94246de621781a06ce1e04d32a931183.

Morrison H, Olack G, and Xiao C. "Organic photochemistry. 93. Photochemical and photophysical studies of tetracycline," *J Am Chem Soc* **1991**, *113*(21):8110-8118. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/ja00021a041.

Morse A, and Jackson A. "Fate of amoxicillin in two water reclamation systems," *Wat Air Soil Pollut* **2004**, *157*(1-4):117-132.

Mort M. "Multiple modes of drug delivery," *Mod Drug Discov* **2000**, *3*(3):30-32, 34. http://pubs.acs.org/hotartcl/mdd/00/apr/mort.html.

Morteani G, Moller P, Fuganti A, and Paces T. "Input and fate of anthropogenic estrogens and gadolinium in surface water and sewage plants in the hydrological basin of Prague (Czech Republic)," *Environ Geochem Health* **2006**, *28*(3):257-264.

Mortensen AS, and Arukwe A. "Effects of 17α-ethynylestradiol on hormonal responses and xenobiotic biotransformation system of Atlantic salmon (Salmo salar)," *Aqua Toxicol* **2007**, *85*(2):113-123. http://www.sciencedirect.com/science/article/B6T4G-4PFDDHN-2/1/8de3c3dc6cd0f4151fb53317e7907bf3.

Mosca F, Tritto E, Muzzi A, Monaci E, Bagnoli F, Iavarone C, et al. "Molecular and cellular signatures of human vaccine adjuvants," *Proc Natl Acad Sci U S A* **2008**, *105*(30):10501-10506. http://hwmaint.pnas.org/cgi/content/full/105/30/10501.

Moss T, Howes D, and Williams FM. "Percutaneous penetration and dermal metabolism of triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether)," *Food Chem Toxicol* **2000**, *38*(4):361-370. http://www.sciencedirect.com/science/article/B6T6P-4165D93-7/1/e809373ca9d0c6ee9e8ad6e0a15f64c7.

Mottaleb M, Ramirez AJ, Usenko S, Brooks BW, and Chambliss CK. "Gas chromatography-mass spectrometry screening method for select UV filters, synthetic musks, alkylphenols, an antimicrobial agent, and an insect repellent in fish," *J Chromatograph A* **2008**, *In press, Accepted with revision*.

Mottaleb MA, Brumley WC, Curtis LR, and Sovocool GW. "Nitro musk adducts of trout hemoglobin: Dose-response and toxicokinetics determination by GC-NICI-MS for a sentinel species," *Am Biotechnol Lab* **2005**, *23*(7):24, 26-29.

Mottaleb MA, Brumley WC, Pyle SM, and Sovocool GW. "Determination of a bound musk xylene metabolite in carp hemoglobin as a biomarker of exposure by gas chromatography-mass spectrometry using selected ion monitoring," *J Anal Toxicol* **2004**, *28*(7):581-586.

Mottaleb MA, Brumley WC, and Sovocool GW. "Nitro musk metabolites bound to carp hemoglobin: Determination by GC with two MS detection modes: EIMS versus electron capture negative ion MS," *Internat J Environ Anal Chem* **2004**, *84*(14-15):1069-1078.

Mottaleb MA, and Karim MR. "Determination of hemoglobin adduct of a musk xylene metabolite in trout as biomarker of exposure by gas chromatography mass spectrometry," *J Environ Sci - China* **2005**, *17*(6):989-992.

Mottaleb MA, Moyz TW, and Zimmerman JH. "Biotransformation of musk xylene in trout haemoglobin: dose-response and toxicokinetics of musk xylene metabolites haemoglobin adducts by gas chromatography-mass spectrometry," *Internat J Environ Anal Chem* **2006**, *86*(10):743-756.

Mottaleb MA, Zhao X, Curtis LR, and Sovocool GW. "Formation of nitro musk adducts of rainbow trout hemoglobin for potential use as biomarkers of exposure," *Aqua Toxicol* **2004**, *67*:315-324. http://emt.oregonstate.edu/faculty/pdfs/curtis/curtisFormationofNitroMusk.pdf.

Mottaleb MA, Zimmerman JH, and Moy TW. "Biological transformation, kinetics and dose-response assessments of bound musk ketone hemoglobin adducts in rainbow trout as biomarkers of environmental exposure," *J Environ Sci* **2008**, *20*(7):878-884. http://www.sciencedirect.com/science/article/B8CX4-4T137T0-K/1/81dfb19c8da3a040f89cae6494cc3bd8.

Mouatassim-Souali A, Tamisier-Karolak SL, Perdiz D, Cargouet M, and Levi Y. "Validation of a quantitative assay using using GC/MS for trace determination of free and conjugated estrogens in environmental water samples," *J Separation Sci* **2003**, *26*(1-2):105-111.

MPR "MPR (Monthly Prescribing Reference)." Haymarket Media, Inc 2008. http://formulary.prescribingreference.com/.

Mu X, and LeBlanc GA. "Developmental toxicity of testosterone in the crustacean Daphnia magna involves anti-ecdysteroidal activity," *Gen Comp Endocrinol* **2002**, *129*(2):127-133. http://www.sciencedirect.com/science/article/B6WG0-4712JH8-7/1/3aec4c5c63eb23161c5c1db02a011ee7.

Mudryk ZJ. "Antibiotic resistance among bacteria inhabiting surface and subsurface water layers in estuarine lake Gardno," *Polish J Environ Studies* **2002**, *11*:401-406.

Mudryk ZJ. "Occurrence and distribution antibiotic resistance of heterotrophic bacteria isolated from a marine beach," *Mar Pollut Bull* **2005**, *50*(1):80-86. http://www.sciencedirect.com/science/article/B6V6N-4DW8W19-1/2/cff6e8beee9750aac8e80a63e4f90df7.

Muir DCG, and Howard PH. "Are There Other Persistent Organic Pollutants? A Challenge for Environmental Chemists," *Environ Sci Technol* **2006**, *40*(23):7157-7166. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061677a.

Muller J, Bohmer W, and Litz NT. "Occurrence of polycyclic musks in sewage sludge and their behaviour in soils and plants," *J Soils Sediments* **2006**, *6*(4):231-235.

Muller L, Mauthe RJ, Riley CM, Andino MM, Antonis DD, Beels C, et al. "A rationale for determining, testing, and controlling specific impurities in pharmaceuticals that possess potential for genotoxicity," *Reg Toxicol Pharmacol* **2006**, *44*(3):198-211. http://www.sciencedirect.com/science/article/B6WPT-4J2KY1G-1/2/d2ec89d7550a5e6c27a3b49893e5d234. Muller M, Rabenoelina F, Balaguer P, Patureau D, Lemenach K, Budzinski H, et al. "Chemical and biological analysis of endocrine disrupting hormones and estrogenic activity in an advanced sewage treatment plant," *Environ Toxicol Chem* **2008**, *27*(8):1649-1658. http://dx.doi.org/10.1897%2F07-519.

Müller R, Tang JYM, Thierb R, and Mueller JF. "Combining passive sampling and toxicity testing for evaluation of mixtures of polar organic chemicals in sewage treatment plant effluent," *J Environ Monit* **2007**, *9*(1):104-109.

Muller S, Moder M, Schrader S, and Popp P. "Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples," *J Chromatogr A* **2003**, *985*(1-2):99-106. http://www.sciencedirect.com/science/article/B6TG8-479KBXW-2/2/f14b52c26b1e033ea856db2857fa183b.

Muller S, Schmid P, and Schlatter C. "Occurrence of nitro and non-nitro benzenoid musk compounds in human adipose tissue," *Chemosphere* **1996**, *33*(1):17-28. http://www.sciencedirect.com/science/article/B6V74-3VWFTHF-2/2/a26ecbcde863f7f961e377e6ec7cb724.

Muncke J, and Eggen RIL. "Vitellogenin 1mRNA as an early molecular biomarker for endocrine disruption in developing zebrafish (Danio rerio)," *Environ Toxicol Chem* **2006**, *25*(10):2734-2741.

Muncke J, Junghans M, and Eggen RIL. "Testing estrogenicity of known and novel (xeno-) estrogens in the MolDarT using developing zebrafish (Danio rerio)," *Environ Toxicol* **2007**, *22*(2):185-193.

Mundy G, Garrett R, Harris S, Chan J, Chen D, Rossini G, et al. "Stimulation of Bone Formation in Vitro and in Rodents by Statins," *Science* **1999**, *286*(5446):1946-1949. http://www.sciencemag.org/cgi/content/abstract/286/5446/1946.

Munns WR. "Axes of Extrapolation in Risk Assessment," *Human Ecolog Risk Assess* **2002**, *8*(1):19-29. http://www.sciencedirect.com/science/article/B6WRP-451W119-4/2/b94fecb204316d1219332284032ece86.

Munns WR, and MacPhail R. "Extrapolation in Human Health and Ecological Risk Assessments: Proceedings of a Symposium," Human Ecolog Risk Assess, 2004, 8(1) 1-5. http://www.sciencedirect.com/science/article/B6WRP-451W119-2/2/a1689221250667ceeba87063cf21419d.

Munoz-Aguayo J, Lang KS, LaPara TM, Gonzalez G, and Singer RS. "Evaluating the Effects of Chlortetracycline on the Proliferation of Antibiotic-Resistant Bacteria in a Simulated River Water Ecosystem," *Appl Environ Microbiol* **2007**, *73*(17):5421-5425. http://aem.asm.org/cgi/content/abstract/73/17/5421.

Munoz-Bellido JL, Munoz-Criado S, and Garcia-Rodrìguez JA. "Antimicrobial activity of psychotropic drugs: Selective serotonin reuptake inhibitors," *Internat J Antimicrob Agents* **2000**, *14*(3):177-180. http://www.sciencedirect.com/science/article/B6T7H-402K6F0-4/1/4db747144661c4769a1ae17c576f2056.

Murdoch RW, and Hay AG. "Formation of catechols via removal of acid side chains from ibuprofen and related aromatic acids," *Appl Environ Microbiol* **2005**, *71*(10):6121-6125.

Murillo J, Alañón Molina A, Muñoz de la Peña A, Durán Merás I, and Jiménez Girón A. "Resolution of Ofloxacin–Ciprofloxacin and Ofloxacin–Norfloxacin Binary Mixtures by Flow-Injection Chemiluminescence in Combination with Partial Least Squares Multivariate Calibration," *J Fluorescence* **2007**, *17*(5):481-491. http://dx.doi.org/10.1007/s10895-007-0198-9.

Murray BE. "Drug therapy: Vancomycin-resistant enterococcal infections," *New England J Med* **2000**, *342*:710-721.

Murray M, and Murray K. "Mechanism-based inhibition of CYP activities in rat liver by fluoxetine and structurally similar alkylamines," *Xenobiotica* **2003**, *33*(10):973-987.

Musa KAK, and Eriksson LA. "Theoretical Study of Ibuprofen Phototoxicity," *J Phys Chem B* 2007, *111*(46):13345-13352. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jp076553e.

Muschamp JW, and Fong PP. "Effects of the serotonin receptor ligand methiothepin on reproductive behavior of the freshwater snail Biomphalaria glabrata: Reduction of egg laying and induction of penile erection," *J Experimental Zool* **2001**, *289*(3):202-207. http://dx.doi.org/10.1002/1097-010X(20010215)289:3<202::AID-JEZ7>3.0.CO;2-B.

Musson S, and Townsend T. "Management of discarded pharmaceuticals," *Pract Periodical Hazardous, Toxic, Radioact Waste Manage* **1998**, 2(3):89-93. http://cedb.asce.org/cgi/WWWdisplay.cgi?9802916.

Musson SE. "Detection of Selected Pharmaceutical Compounds and Determination of their Fate in Modern Lined Landfills," University of Florida, Department of Environment Engineering Sciences, Gainesville, FL, 2006. 101 pp.

Musson SE, Townsend T, Seaburg K, and Mousa J. "A continuous collection system pharmaceutical wastes: A pilot for household project," *J Air Waste Mangement Assoc* **2007**, *57*(7):828-835. http://www.entrepreneur.com/tradejournals/article/166778956.html.

Musson SE, and Townsend TG. "Pharmaceutical compound content of municipal solid waste," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SK631C-9/1/8bfe6c870e25145302ced11cab9661f0.

Mutavdzic D, Babic S, Asperger D, Horvat AJM, and Kastelan-Macan M. "Comparison of different solid-phase extraction materials for sample preparation in the analysis of veterinary drugs in water samples "*J Planar Chromatogr - Modern TLC* **2006**, *19*(112):454-462.

Mutsuko H, Saito M, Miyake S, and Hasegawa R. "Study on Environmental Risk Assessment of Drugs: Excretion Forms to Environment," *Bull Nat Inst Health Sci* **2006**, (124):83-86. http://sciencelinks.jp/j-east/display.php?id=000020070707A0162373.

Mylonas AD, Brown AM, Carthew TL, McGrath B, Purdie DM, Pandeya N, et al. "Natural history of Ross River virus-induced epidemic polyarthritis," *Med J Australia* **2002**, *177*:356-360.

Nachatelo M, "How drugs are polluting our water," Natural Health Magazine September, 2001, 51-53.

Naciff JM, Overmann GJ, Torontali SM, Carr GJ, Khambatta ZS, Tiesman JP, et al. "Uterine temporal response to acute exposure to 17alpha-ethinyl estradiol in the immature rat," *Toxicol Sci* **2007**, *97*(2):467-490.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17351261.

Nageswara Rao R, Venkateswarlu N, and Narsimha R. "Determination of antibiotics in aquatic environment by solid-phase extraction followed by liquid chromatography-electrospray ionization mass spectrometry," *J Chromatogr A* **2008**, *1187*(1-2):151-164. http://www.sciencedirect.com/science/article/B6TG8-4RTM308-7/1/60c89a7170aa21aa70b8d16db7f1c415.

Nagtegaal M, Ternes TA, Baumann W, and Nagel R. "Nachweis von UV-Filtersubstanzen in Wasser und Fischen aus dem Meerfelder Maar in der Eifel - Detection of UV-sunscreen agents in water and fish of the Meerfelder Maar, the Eifel, Germany," *UWSF- Z für Umweltchem Ökotox* **1997**, *9*(2):79-86.

Nakada N, Kiri K, Shinohara H, Harada A, Kuroda K, Takizawa S, et al. "Evaluation of Pharmaceuticals and Personal Care Products as Water-soluble Molecular Markers of Sewage," *Environ Sci Technol* **2008**, http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es7030856.

Nakada N, Komori K, Suzuki Y, Konishi C, Houwa I, and Tanaka H. "Occurrence of 70 pharmaceutical and personal care products in Tone River basin in Japan," *Wat Sci Technol* **2007**, *56*(12):133-140. http://www.ncbi.nlm.nih.gov/pubmed/18075189.

Nakada N, Nyunoya H, Nakamura M, Hara A, Iguchi T, and Takada H. "Identification of estrogenic compounds in wastewater effluent," *Environ Toxicol Chem* **2004**, *23*(12):2807-2815.

Nakada N, Shinohara H, Murata A, Kiri K, Managaki S, Sato N, et al. "Removal of selected pharmaceuticals and personal care products (PPCPs) and endocrine-disrupting chemicals (EDCs) during sand filtration and ozonation at a municipal sewage treatment plant," *Wat Res* **2007**, *41*(19):4373-4382. http://www.sciencedirect.com/science/article/B6V73-4P192F2-1/2/812edae044d8988c4f1090c691513b81.

Nakada N, Tanishima T, Shinohara H, Kiri K, and Takada H. "Pharmaceutical chemicals and endocrine disrupters in municipal wastewater in Tokyo and their removal during activated sludge treatment," *Wat Res* **2006**, *40*(17):3297-3303.

Nakama A, Funasaka K, and Shimizu M. "Evaluation of estrogenic activity of organic biocides using ER-binding and YES assay," *Food Chem Toxicol* **2007**, *45*(9):1558-1564. http://www.sciencedirect.com/science/article/B6T6P-4N3P093-5/1/d92f6220144c5b3acae1b862037ccd9e.

Nakamura H, Kuruto-Niwa R, Uchida M, and Terao Y. "Formation of chlorinated estrones via hypochlorous disinfection of wastewater effluent containing estrone," *Chemosphere* **2007**, *66*(8):1441-1448. http://www.sciencedirect.com/science/article/B6V74-4M7V9Y9-1/2/90e8c110c5d99f9abc9e5763d6151829.

Nakamura K. "Calculation and problems of predicted environmental concentration (Pec) for aquatic ecological risk assessement," *J Pesticide Sci* 2006, *31*(1):70-72.

Nakamura S, Sian TH, and Daishima S. "Determination of estrogens in river water by gas chromatography-negative-ion chemical-ionization mass spectrometry," *J Chromatogr A* **2001**, *919*(2):275-282.

Nakamura Y, Onda K, Takatoh C, and Miya A. "Development of a method for the quantitative analysis of estrogens in sewage water by LC/MS/MS," *Bunseki Kagaku* **2003**, (52):2.

Nakamura Y, Yamamoto H, Sekizawa J, Kondo T, Hirai N, and Tatarazako N. "The effects of pH on fluoxetine in Japanese medaka (Oryzias latipes): Acute toxicity in fish larvae and bioaccumulation in juvenile fish," *Chemosphere* **2008**, *70*(5):865-873. http://www.sciencedirect.com/science/article/B6V74-4PK89Y8-1/2/d67c26465fa808f7783318fcf2ae94d1.

Nakari T. "Estrogenicity of municipal effluents assessed in vivo and in vitro," *Environ Toxicol* **2004**, *19*(3):207-215.

Nakata H. "Occurrence of synthetic musk fragrances in marine mammals and sharkes from Japanese coastal waters," *Environ Sci Technol* **2005**, *39*(10):3430-3434. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i10/abs/es0501991.html.

Nakata H, Kannan K, Jones PD, and Giesy JP. "Determination of fluoroquinolone antibiotics in wastewater effluents by liquid chromatography-mass spectrometry and fluorescence detection," *Chemosphere* **2005**, *58*(6):759-766. http://www.sciencedirect.com/science/article/B6V74-4DS6RNH-3/2/4e32e0c37d327af994b878766aebf65e.

Nakata H, Kannan K, Nasu T, Cho HS, Sinclair E, and Takemura A. "Perfluorinated contaminants in sediments and aquatic organisms collected from shallow water and tidal flat areas of the Ariake Sea, Japan: Environmental fate of perfluorooctane sulfonate in aquatic ecosystems," *Environ Sci Technol* **2006**, *40*(16):4916-4921. http://pubs.acs.org/cgi-

bin/abstract.cgi/esthag/2006/40/i16/abs/es0603195.html.

Nakata H, Sasaki H, Takemura A, Yoshioka M, Tanabe S, and Kannan K. "Bioaccumulation, temporal trend, and geographical distribution of synthetic musks in the marine environment," *Environ Sci Technol* **2007**, *41*(7):2216-2222.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17438766.

Nalda MJN, Yague JLB, Gomez MTM, Sevilla JJJ, del Nozal JB, and Pascual MH. "Trace analysis of antibacterial tylosin A, B, C and D in honey by liquid chromatography-electrospray ionization-mass spectrometry," *J Separation Sci* **2006**, *29*(3):405-413.

Nalecz-Jawecki G. "Evaluation of the in vitro biotransformation of fluoxetine with HPLC, mass spectrometry and ecotoxicological tests," *Chemosphere* **2007**, *70*(1):29-35. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17764718. Nałęcz-Jawecki G. "In Vitro Biotransformation of Amitriptyline and Imipramine with Rat Hepatic S9 Fraction: Evaluation of the Toxicity with Spirotox and Thamnotoxkit FTM Tests," *Arch Environ Contam Toxicol* **2008**, *54*(2):266-273. http://dx.doi.org/10.1007/s00244-007-9052-y.

Nałęcz-Jawecki G, Hajnas A, and Sawicki J. "Photodegradation and phototoxicity of thioridazine and chlorpromazine evaluated with chemical analysis and aquatic organisms," *Ecotoxicology* **2008**, *17*(1):13-20. http://dx.doi.org/10.1007/s10646-007-0171-z.

Nalecz-Jawecki G, and Persoone G. "Toxicity of selected pharmaceuticals to the anostracan crustacean Thamnocephalus platyurus - Comparison of sublethal and lethal effect levels with the 1h Rapidtoxkit and the 24h Thamnotoxkit microbiotests," *Environ Sci Pollut Res* **2006**, *13*(1):22-27.

Nalecz-Jawecki G, and Sawicki J. "The toxicity of selected pharmaceuticals to the protozoa Spirostomum ambiguum and Tetrahymena termophila," *Fres Environ Bull* **2003**, *12*(8,S1):840-843.

Nalecz-Jawecki G, and Sawicki J. "Influence of water hardness on the toxicity of selected pharmaceuticals and metals to the protozoa Spirostomum ambiguum and Tetrahymena termophila," *Fres Environ Bull* **2005**, *14*(10):873-877.

Narita S, Goldblum RM, Brooks EG, Watson CS, Estes MD, Curran EM, et al. "Environmental Estrogens Induce Mast Cell Degranulation and Enhance IgE-mediated Release of Allergic Mediators," *J Allergy and Clinical Immunology* **2007**, *119*(1, Supplement 1):S49. http://www.sciencedirect.com/science/article/B6WH4-4MSHSV8-6Y/2/dd128bf6694c7d532bf19f0556bf7b46.

Narotsky M, Hunter E, Klinefelter G, Goldman J, Strader L, Pressman J, et al. "Assessment of reproductive effects of complex mixtures of disinfection by-products in a multi-generational rat bioassay of drinking water concentrates," *Birth Defects Res Part A - Clin Molecular Teratol* **2008**, *82*(5):363-363. http://oaspub.epa.gov/eims/eimsapi.dispdetail?deid=189604.

Nash JP, Kime DE, Van der Ven LTM, Wester PW, Brion F, Maack G, et al. "Long-term exposure to environmental concentrations of the pharmaceutical ethynylestradiol causes reproductive failure in fish," *Environ Health Perspect* **2004**, *112*(17):1725-1733. http://www.ehponline.org/docs/2004/7209/abstract.html.

National Association of Pharmacy Regulatory Authorities ""Recycling" and disposal of dispensed drugs," http://www.napra.org/docs/0/97/194/184.asp.

National Association of Pharmacy Regulatory Authorities NAPRA. "Recycling and disposal of dispensed drugs," 2002, pp. http://www.napra.org/docs/0/97/194/184.asp.

National Environmental Trust. "Cabinet Confidential: Toxic Products in the Home," Washington, DC, October, 2004, 44 pp. http://www.dphhs.mt.gov/epht/cabinet052004.pdf.

National Research Council. "Committee on Risk Assessment of Hazardous Air Pollutants, Science and Judgment in Risk Assessment," National Academy Press, 1994, 672 pp. http://books.nap.edu/catalog/2125.html.

National Research Council. "Identifying Future Drinking Water Contaminants." Washington, DC, National Academies Press, 1999, 276 pp. http://books.nap.edu/catalog/9595.html.

National Research Council. "Committee on Hormonally Active Agents in the Environment, Hormonally Active Agents in the Environment," National Academy Press, 1999, 460 pp. http://books.nap.edu/books/0309064198/html

National Research Council. "Biosolids applied to land: Advancing standards and practices." Washington, DC, National Academies Press, 2002, 368 pp. http://www.nap.edu/books/0309084865/html.

National Research Council, and Committee on Water Quality Improvement for the Pittsburgh Region. "Regional cooperation for water quality improvement in Southwestern Pennsylvania." Washington, DC, National Academies Press, 2005, 290 pp. http://www.nap.edu/catalog/11196.html

National Water Quality Management Strategy, Natural Resource Management Ministerial Council, Environment Protection and Heritage Council, and National Health and Medical Research Council. "Australian guidelines for water recycling: Managing health and environmental risks," November, 2006, 174 pp. http://www.ephc.gov.au/pdf/water/WaterRecyclingGuidelines-02_Nov06_.pdf.

National Water Quality Management Strategy, Natural Resource Management Ministerial Council, Environment Protection and Heritage Council, and National Health and Medical Research Council. "Australian guidelines for water recycling: Augmentation of drinking water supplies," May, 2008, 174 pp. http://www.ephc.gov.au/pdf/water/200805_WQ_GL_Final_AGWR_ADWS.pdf.

Naula C, and Seebeck T. "Cyclic AMP signaling in trypanosomatids," *Parasitol Today* **2000**, *16*:35-38.

Naumann K. "Influence of chlorine substituents on biological activity of chemicals: a review (Reprinted from J Prakt Chem, vol 341, pg 417-435, 1999)," *Pest Management Sci* **2000**, *56*:3-21.

Navalon S, Alvaro M, and Garcia H. "Reaction of chlorine dioxide with emergent water pollutants: Product study of the reaction of three beta-lactam antibiotics with ClO2," *Wat Res* **2008**, *42*(8-9):1935-1942.

Navia MA. "A chicken in every pot, thanks to sulfonamide drugs," Science 2000, 288:2132-2133.

NCCAM (National Center for Complementary and Alternative Medicine) "Home Page," http://altmed.od.nih.gov/nccam.

NCCOS "Pharmaceuticals in the Environment, Information for Assessing Risk: a database of available information on the general chemistry and toxicology of potential environmental levels of pharmaceuticals," National Centers for Coastal Ocean Science, Center for Coastal Environmental Health and Biomolecular Research http://www.chbr.noaa.gov/peiar/.

NCI/FDA. "Program to streamline cancer drug development," J Nuc Med 2003, 44:52N-52N.

Neamtu M, Popa D-M, and Frimmel FH. "Simulated solar UV-irradiation of endocrine disrupting chemical octylphenol," *Journal of Hazardous Materials* **2008**, *In Press, Accepted Manuscript*

http://www.sciencedirect.com/science/article/B6TGF-4T7XGW2-5/2/a6ce0ee030e0f103a33be3e270cd801f.

Neamtu M, Siminiceanu I, and Kettrup A. "Kinetics of nitromusk compounds degradation in water by ultraviolet radiation and hydrogen peroxide," *Chemosphere* **2000**, *40*(12):1407-1410. http://www.sciencedirect.com/science/article/B6V74-3YN92HT-H/2/58db2647821d878a94d7e7d9e48a88bf.

Nebenfuhr A, Gallagher LA, Dunahay TG, Frohlick JA, Mazurkiewicz AM, Meehl JB, et al. "A. Stopand-go movements of plant Golgi stacks are mediated by the acto-myosin system," *Plant Physiol* **1999**, *121*:1127-1141.

Nebot C, Gibb SW, and Boyd KG. "Quantification of human pharmaceuticals in water samples by high performance liquid chromatography-tandem mass spectrometry," *Anal Chimica Acta* **2007**, *598*(1):87-94. http://www.sciencedirect.com/science/article/B6TF4-4P6M64S-2/2/3f855af78039a6696dd324e1b78430da.

Neela FA, Nonaka L, and Suzuki S. "The diversity of multi-drug resistance profiles in tetracyclineresistant Vibrio species isolated from coastal sediments and seawater," *J Microbiol* 2007, *45*(1):64-68. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17342058.

Neff E. "Ecstasy is all the rave," Las Vegas Sun, July 16 2000 D 1-5.

Negwer M, Ed., "Organic-chemical drugs and their synonyms," 7th ed.; Akademie Verlag, Berlin, Germany, 2000, 1-944, 945-1900, 1901-2855, 2857-3937 pp.

Neiffer DL, Klein EC, Calle PP, Linn M, Terrell SP, Walker RL, et al. "Mortality associated with melarsomine dihydrochloride administration in two north american river otters (Lontra canadensis) and a red panda (Ailurus fulgens fulgens)," *J Zoo Wildlife Med* **2002**, *33*:242-248.

NEIWPCC. "Pharmaceuticals and Personal Care Products: State of the Science," 2007 Northeast Water Science Forum, Portland, MA, August 8 - 9, 2007, 2007, http://www.neiwpcc.org/ppcpconference/index.asp.

Nel A, Xia T, Mädler L, and Li N. "Toxic potential of materials at the nanolevel," *Science* **2006**, *311*:622-627.

Nelson J, Bishay F, van Roodselaar A, Ikonomou M, and Law FCP. "The use of in vitro bioassays to quantify endocrine disrupting chemicals in municipal wastewater treatment plant effluents," *Sci Total Environ* **2007**, *374*(1):80-90. http://www.sciencedirect.com/science/article/B6V78-4MWPV21-1/2/40d7d6933222fe826daed0644f5e2e4b.

Nemathaga F, Maringa S, and Chimuka L. "Hospital solid waste management practices in Limpopo Province, South Africa: A case study of two hospitals," *Waste Management* **2008**, *28*(7):1236-1245. http://www.sciencedirect.com/science/article/B6VFR-4R8KT18-4/1/b41a5346feff2e574cdfceaf7ab19e78. Nentwig G. "Effects of Pharmaceuticals on Aquatic Invertebrates. Part II: The Antidepressant Drug Fluoxetine," *Arch Environ Contamin Toxicol* **2007**, *52*(2):163-170. http://dx.doi.org/10.1007/s00244-005-7190-7.

Nepal PR, Chun M-K, and Choi H-K. "Preparation of floating microspheres for fish farming," *Int J Pharmaceutics* **2007**, *341*(1-2):85-90. http://www.sciencedirect.com/science/article/B6T7W-4NFR554-2/1/da5918cd070dc7168175c792515ad109.

NERC. "Franklin County Pilot Unwanted Medications Collection," Northeast Recycling Council, Turners Falls (Montague), MA, December 9, 2004, 7 pp. http://www.nerc.org/.

Nessa K, Quaiyum MA, and Khuda B-e-. "Waste management in healthcare facilities: A review," Centre for Health and Population Research, Khan MSI, Ed., Dhaka, Bangladesh, 2001, 39 pp. http://www.icddrb.org/images/wp144.pdf.

Nettekoven M, and Thomas AW. "Accelerating drug discovery by integrative implementation of laboratory automation in the work flow," *Current Medicinal Chemistry* **2002**, *9*:2179-2190.

Neuhaus-Steinmetz U, and Rensing L. "Heat shock protein induction by certain chemical stressors is correlated with their cytotoxicity, lipophilicity and protein-denaturing capacity," *Toxicology* **1997**, *123*(3):185-195.

Neumann PJ, "Are pharmaceuticals cost-effective? Lessons for the medicare drug benefit debate," *Risk in Perspective* 2000, http://www.hcra.harvard.edu/rip/risk_in_persp_May2000.pdf.

New AP, Freitas dos Santos LM, Lo Biundo G, and Spicq A. "Analytical techniques used for monitoring the biodegradation of fluorinated compounds in waste streams from pharmaceutical production," *J Chromatogr A* **2000**, *889*(1-2):177-184. http://www.sciencedirect.com/science/article/B6TG8-40T9G3C-R/2/41f3ce6855441c651dd5569884145628.

Nghiem LD, and Coleman PJ. "NF/RO filtration of the hydrophobic ionogenic compound triclosan: Transport mechanisms and the influence of membrane fouling," *Sep Purification Technol* **2008**, *In Press, Accepted Manuscript*:209. http://www.sciencedirect.com/science/article/B6THJ-4S50KB2-2/2/b3741741616bd0c52aada0c97c1b9449.

Nghiem LD, and Hawkes S. "Effects of membrane fouling on the nanofiltration of pharmaceutically active compounds (PhACs): Mechanisms and role of membrane pore size," *Separation and Purification Technology* **2007**, *57*(1):176-184. http://www.sciencedirect.com/science/article/B6THJ-4NFH0HN-2/1/e9305b625990f4601e704f0b41b419dd.

Nghiem LD, Manis A, Soldenhoff K, and Schafer AI. "Estrogenic hormone removal from wastewater using NF/RO membranes," *J Membrane Sci* **2004**, *242*(1-2):37-45. http://www.sciencedirect.com/science/article/B6TGK-4D2MXCN-1/2/cbe68a6b728011287e949a18213e0461.

Nghiem LD, McCutcheon J, Schafer AI, and Elimelech M. "The role of endocrine disrupters in water recycling: risk or mania?," *Wat Sci Technol* **2004**, *50*(2):215-220.

Nghiem LD, and Schafer AI. "Adsorption and transport of trace contaminant estrone in NF/RO membranes," *Environ Eng Sci* **2002**, *19*(6):441-451.

Nghiem LD, and Schafer AI. "Critical risk points of nanofiltration and reverse osmosis processes in water recycling applications," *Desalination* **2006**, *187*(1-3):303-312. http://www.sciencedirect.com/science/article/B6TFX-4J444DP-13/2/f9eb893aae6bb48dbab1c15b4f1d95e8.

Nghiem LD, Schafer AI, and Elimelech M. "Removal of natural hormones by nanofiltration membranes: Measurement, modeling, and mechanisms," *Environ Sci Technol* **2004**, *38*(6):1888-1896. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i06/abs/es034952r.html.

Nghiem LD, Schafer AI, and Elimelech M. "Pharmaceutical Retention Mechanisms by Nanofiltration Membranes," *Environ Sci Technol* **2005**, *39*(19):7698-7705. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0507665.

Nghiem LD, Schafer AI, and Elimelech M. "Role of electrostatic interactions in the retention of pharmaceutically active contaminants by a loose nanofiltration membrane," *J Membrane Sci* 2006, 286(1-2):52-59. http://www.sciencedirect.com/science/article/B6TGK-4KWJY0F-1/2/dad092d25324b96185f168beb025f87c.

Nghiem LD, Schafer AI, and Waite TD. "Adsorption of estrone on nanofiltration and reverse osmosis membranes in water and wastewater treatment," *Wat Sci Technol* **2002**, *46*(4-5):265-272.

Nguyen A, Tzianetas R, and Louie S. "Responsible drug disposal program in North Vancouver," *CMAJ* **2002**, *166*(10):1252-a-1253. http://www.canadianmedicaljournal.ca/cgi/reprint/166/10/1252-a and

http://www.cmaj.ca/cgi/data/166/10/1252-a/DC1/1.

NGWA. "Emerging Issues Conference - pharmaceuticals - endocrine disrupting chemicals - pesticides - arsenic and radon," Emerging Issues Conference, Minneapolis, Minnesota, June 7-8, 2000.

NHS "Dictionary of medicines and devices." NHS Business Services Authority 2008. www.dmd.medicines.org.uk.

Nicholson B. "Organic chemical issues in wastewater quality - A review of current analytical methods," Australian Water Quality Centre and CRC for Water Quality and Treatment, 2006, 178 pp. http://www.waterquality.crc.org.au/publications/Chemical_issues_in_wastewater_quality.pdf.

Nicholson DW. "From bench to clinic with apoptosis-based therapeutic agents," *Nature* **2000**, *407*:810-816.

Nicolau AD, Nicolina Mota, M. Lima, Nelson. "Trends in the use of protozoa in the assessment of wastewater treatment," *Res Microbiol* 2001, *152*(7):621-630. http://hdl.handle.net/1822/1697> Nidel CT. "Regulating the Fate of Pharmaceutical Drugs: A New Prescription for the Environment," *Food Drug Law J* **2003**, *58*(1):81-102. http://www.fdli.org/pubs/Journal%20Online/jour toc/vol58 1.html#7.

Nie X-P, Chen J-F, Wang X, Zhou X-Z, Lu J-Y, and Yang Y-F. "Bioaccumulation of Ciprofloxacin in Allogynogenetic crucian carp and its toxic effects," *Carcinogenesis, Teratogenesis and Mutagenesis* **2008**, 28:246-252. http://translate.google.com/translate?hl=en&sl=zh-

CN&u=http://www.wanfangdata.com.cn/qikan/periodical.articles//stxb/stxb2008/0801/080128.htm&s a=X&oi=translate&resnum=3&ct=result&prev=/search%3Fq%3DBioaccumulation%2Bof%2BCiprofl oxacin%2Bin%2BAllogynogenetic%2Bcrucian%2Bcarp%2Band%2Bits%2Btoxic%2Beffects%26hl% 3Den%26rls%3DGGLG,GGLG:2006-12,GGLG:en.

NIEHS "Chemical Effects in Biological Systems (CEBS) knowledgebase." National Institute of Environmental Health Sciences - Environmental Health Sciences 2008. http://cebs.niehs.nih.gov/cebs-browser/cebsHome.do.

Nielen MWF, van Engelen MC, Zuiderent R, and Ramaker R. "Screening and confirmation criteria for hormone residue analysis using liquid chromatography accurate mass time-of-flight, Fourier transform ion cyclotron resonance and orbitrap mass spectrometry techniques," *Anal Chimica Acta* **2007**, *586*(1-2):122-129. http://www.sciencedirect.com/science/article/B6TF4-4KT6GVB-1/2/683b4b325eb14c75f499f883ca154f70.

Nielsen L, and Baatrup E. "Quantitative studies on the effects of environmental estrogens on the testis of the guppy, Poecilia reticulata," *Aqua Toxicol* **2006**, *80*(2):140-148. http://www.sciencedirect.com/science/article/B6T4G-4KPNVRX-1/2/0aed0fa161a5baebf8aba5fce88cf165.

Niemi M, Sibakov M, and Niemela S. "Antibiotic resistance among different species of fecal coliforms isolated from water samples," *Appl Environ Microbiol* **1983**, *45*(1):79-83. http://aem.asm.org/cgi/content/abstract/45/1/79.

Nieto A, Borrull F, Marce RM, and Pocurull E. "Selective extraction of sulfonamides, macrolides and other pharmaceuticals from sewage sludge by pressurized liquid extraction," *J Chromatogr A* 2007, *1174*(1-2):125-131. http://www.sciencedirect.com/science/article/B6TG8-4PV2RYK-1/2/e2c0c8814c599b67569556b7b2956e13.

Nieto A, Borrull F, Marce RM, and Pocurull E. "Pressurized Liquid Extraction of Contaminants from Environmental Samples," *Current Anal Chem* **2008**, *4*(2):157-167. http://www.ingentaconnect.com/content/ben/cac/2008/00000004/00000002/art00008 http://dx.doi.org/10.2174/157341108784587821.

Nieto A, Borrull F, Pocurull E, and Marc RM. "Pressurized liquid extraction of pharmaceuticals from sewage-sludge," *J Separation Sci* 2007, *30*(7):979-984.

NIH "Chemical Structure Lookup Service." 2008. http://cholla.chemnavigator.com/cgibin/lookup/results?query=C13H19N5O2&type=formula. NIH - National Institutes of Health. "The National Institutes of Health (NIH) Selects Arkansas Company to Test New Technology for Efficient Removal of Pharmaceuticals from wastewater BlueInGreen Awarded " **2008**:2. www.blueingreen.biz.

Nikolai LN, McClure EL, MacLeod SL, and Wong CS. "Stereoisomer quantification of the -blocker drugs atenolol, metoprolol, and propranolol in wastewaters by chiral high-performance liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2006**, *1131*(1-2):103-109. http://www.sciencedirect.com/science/article/B6TG8-4KKNJ45-3/2/3efc012e1919d37964a36ded2a8ecd2f.

Nikolaidis NP. "Bridging fate, exposure, and ecotoxicity of contaminants," *Environmental Research* **2008**, *106*(3):287-288. http://www.sciencedirect.com/science/article/B6WDS-4RV7GYC-1/1/069f47049d989dffa1121bd7a6b89089.

Nikolaou A, Meric S, and Fatta D. "Occurrence patterns of pharmaceuticals in water and wastewater environments," *Anal Bioanal Chem* **2007**, *387*(4):1225-1234.

Nikolaou AD, Meric S, Lekkas DF, Naddeo V, Belgiorno V, Groudev S, et al. "Multi-parametric water quality monitoring approach according to the WFD application in Evros trans-boundary river basin: priority pollutants," *Desalination* **2008**, *226*(1-3):306-320. http://www.sciencedirect.com/science/article/B6TFX-4S50V3Y-19/2/0ffb5e2690ffc4e2690d07c2b07c7035.

Nilsen E, Rosenbauer RR, Furlong ET, Burkhardt MR, Werner SL, Greaser L, et al. "Pharmaceuticals, Personal Care Products and Anthropogenic Waste Indicators Detected in Streambed Sediments of the Lower Columbia River and Selected Tributaries," 6th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, National Ground Water Association, Costa Mesa, CA, 15. http://info.ngwa.org/gwol/pdf/080482532.pdf.

Nimrod AC, and Benson WH. "Reproduction and development of Japanese medaka following an early life stage exposure to xenoestrogens," *Aqua Toxicol* **1998**, *44*(1-2):141-156. http://www.sciencedirect.com/science/article/B6T4G-3VB324R-C/1/a005e5ae67eff2b06f50ee6771374f4c.

Ning B, Graham NJD, and Lickiss PD. "Degradation of X-ray contrast media compounds by combined ozone and ultrasound," *Wat Environ Res* **2007**, *79*(12):2427-2436. http://www.ingentaconnect.com/content/wef/wer/2007/00000079/00000012/art00009;jsessionid=27ub 0afvroi8j.alexandra?format=print.

Nishi I, Kawakami T, and Onodera S. "Monitoring of Triclosan in the Surface Water of the Tone Canal, Japan," *Bull Environ Contam Toxicol* **2008**, *80*(2):163-166. http://dx.doi.org/10.1007/s00128-007-9338-9.

NIST "NIST/EPA/NIH Mass Spectral Library with Search Program," National Institute of Standards and Technology http://www.nist.gov/srd/nist1a.htm.

Nitschke L, Malcomber I, Tibazarwa C, and Steber J. "Is the EU ecolabel DID list a useful environmental evaluation tool for detergent-like consumer products?," *Tenside Surfactants Detergents*

2007, *44*(3):155-159. http://direct.bl.uk/bld/PlaceOrder.do?UIN=211273080&ETOC=RN&from=searchengine.

Niu H, Cai Y, Shi Y, Wei F, Liu J, Mou S, et al. "Evaluation of carbon nanotubes as a solid-phase extraction adsorbent for the extraction of cephalosporins antibiotics, sulfonamides and phenolic compounds from aqueous solution," *Anal Chim Acta* **2007**, *594*(1):81-92. http://www.ncbi.nlm.nih.gov/pubmed/17560389.

Niven SJ, Snape J, Hetheridge M, Evans M, McEvoy J, and Rowland SJ. "Investigations of cholesterol transformation during sewage treatment: relevance to estrogen formation pathways?," *Sci Total Environ* **2001**, *279*(1-3):75-86. http://www.sciencedirect.com/science/article/B6V78-447D2T6-7/2/5047ea50f7ab04f94b6a8c71e93a1ad4.

NLM "Toxnet's Hazardous Substances Databank (HSDB)." United States National Library of Medicine 2008. http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

NLM & NIH "Search: Drugs, Supplements, and Herbal Information U.S. National Library of Medicine and National Institutes of Health {database}." U.S. National Library of Medicine, and National Institutes of Health 2008. http://www.nlm.nih.gov/medlineplus/medicines.html.

No authors listed. "Workshop on Drug Disposition and Metabolism in Aquatic Species. August 20, 1984, Gaithersburg, Maryland. Proceedings," *Vet Hum Toxicol* **1986**, *28*(Suppl 1):1-56. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =3509647.

Noble HL. "The effect of organic amendment on the environmental fate of pharmaceuticals in soil " University of York, United Kingdom, 2007. pp.

Nonaka L, Ikeno K, and Suzuki S. "Distribution of tetracycline resistance gene, tet(M), in Grampositive and Gram-negative bacteria isolated from sediment and seawater at a coastal aquaculture site in Japan," *Microbes Environ* **2007**, *22*(4):355-364.

Nonaka L, and Suzuki S. "Monitoring of drug resistant microorganisms in aquatic environments," *Nippon Suisan Gakkaishi* **2007**, *73*(2):317-320.

Noppe H, De Wasch K, Poelmans S, Van Hoof N, Verslycke T, Janssen CR, et al. "Development and validation of an analytical method for detection of estrogens in water," *Anal Bioanal Chem* **2005**, *382*(1):91-98.

Noppe H, Verslycke T, De Wulf E, Verheyden K, Monteyne E, Van Caeter P, et al. "Occurrence of estrogens in the Scheldt estuary: A 2-year survey," *Ecotoxicol Environ Safety* **2007**, *66*(1):1-8. http://www.sciencedirect.com/science/article/B6WDM-4K48M7M-4/2/016b56d1a1bdf299bb9dedb7c55d2477.

NORMAN. "Chemical analysis of emerging pollutants " Institut Menorqui d'Estudis (IME), Mao, Menorca (Balearic Island), Spain, November 27-28, 2006, 2006, 116 pp. http://www.norman-network.net/index_php.php?module=public/workshops/menorca&menu2=public/workshops/workshop s&interface=1024&lang=en.

NORMAN. "Emerging environmental pollutants: Key Issues and Challenges " Stresa, Italy, 19-20 June, 2006, 2006, 124 pp. http://www.norman-

network.net/index_php.php?module=public/workshops/stresa&menu2=public/workshops/workshops& interface=1024&lang=en.

NORMAN. "New tools for bio-monitoring of emerging pollutants — Amsterdam, The Netherlands " IVM - Institute for Environmental Studies, Vrije Universiteit Amsterdam, The Netherlands, Oct 29-30, 2007 2007, 44 pp. http://www.norman-

network.net/index_php.php?module=public/workshops/amsterdam&menu2=public/workshops/workshops&interface=1024&lang=en.

NORMAN. "First interlaboratory study on NSAID residue analysis in water," Contract No 018486, April, 2007, 36 pp. <u>http://www.norman-network.com/public_docs/norman_c2_2_-</u> _________interlab_i_report.pdf.

NORMAN "6th framework programme, priority 6.3 - Global change and ecosystems," http://www.normannetwork.com/index_php.php?menu2=public/about_us/about_us/about_us/module=public/about_us/the_project.

NORMAN "EMPOMASS." 2008. http://www.normannetwork.com/index_php.php?module=public/databases

NORMAN "EMPODAT." 2008. http://www.normannetwork.com/index_php.php?module=public/databases

NORMAN "EMPOMAP." 2008. http://www.normannetwork.com/index_php.php?module=public/databases

.

NORMAN, Heath E, and Kosjek T. "Second interlaboratory exercise on determination of NSAIDs in water samples," Contract No 018486, April, 2007, 61 pp. <u>http://www.norman-network.com/public_docs/interlabo/final_2nd_interlab_report-150708.pdf</u>.

Noroozifar M, and Khorasani-Motlagh M. "Solid-phase iodine as an oxidant in flow injection analysis: determination of ascorbic acid in pharmaceuticals and foods by background correction," *Talanta* **2003**, *61*(2):173-179. http://www.sciencedirect.com/science/article/B6THP-48NXDRM-1/2/f631daa0f3715b19fa3d57e225943604.

North Carolina Board of Pharmacy Investigations and Inspections "Drug disposal procedures," http://www.ncbop.org/Forms/DrugDisposalForm.pdf.

Northington RM, and Hershey AE. "Effects of stream restoration and wastewater treatment plant effluent on fish communities in urban streams," *Freshwater Biol* **2006**, *51*((10)):1959-1973. http://cat.inist.fr/?aModele=afficheN&cpsidt=18130047.

Northrop JP, Bednarski M, Barbieri SO, Lu AT, Nguyen D, Varadarajan J, et al. "Cell surface expression of single chain antibodies with applications to imaging of gene expression in vivo," *European J Nuclear Medicine and Molecular Imaging* **2003**, *30*:1292-1298.

Northwest Product Stewardship Council "Pharmaceuticals and Products Stewardship," http://www.productstewardship.net/productsPharmaceuticalsIntlprograms.html.

Notari S, Mancone C, Tripodi M, Narciso P, Fasano M, and Ascenzi P. "Determination of anti-HIV drug concentration in human plasma by MALDI-TOF/TOF," *J Chromatogr B: Biomed Sci Applications* **2006**, *833*(1):109-116. http://www.sciencedirect.com/science/article/B6X0P-4JCCG4F-4/2/df11d9b76d0b51fd42139120fe5f5e69.

Notch EG, Miniutti DM, and Mayer GD. "17α-Ethinylestradiol decreases expression of multiple hepatic nucleotide excision repair genes in zebrafish (Danio rerio)," *Aqua Toxicol* **2007**, *84*(3):301-309. http://www.sciencedirect.com/science/article/B6T4G-4P0DJP9-1/2/38f8571965f71db3d8443ab19b9a01d8.

Novakova L, Satinsky D, and Solich P. "HPLC methods for the determination of simvastatin and atorvastatin," *Trac-Trends Anal Chem* **2008**, *27*(4):352-367.

Nowotny N, Epp B, vonSonntag C, and Fahlenkamp H. "Quantification and Modeling of the Elimination Behavior of Ecologically Problematic Wastewater Micropollutants by Adsorption on Powdered and Granulated Activated Carbon," *Environ Sci Technol* **2007**, *41*(6):2050-2055. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0618595.

Nozal L, Arce L, Rios A, and Valcarcel M. "Development of a screening method for analytical control of antibiotic residues by micellar electrokinetic capillary chromatography," *Anal Chimica Acta* **2004**, *523*(1):21-28. http://www.sciencedirect.com/science/article/B6TF4-4D49059-3/2/7625c46999d8d9779ceda61e5e8360c8.

Nozal L, Arce L, Simonet BM, Rios A, and Valcarcel M. "Rapid determination of trace levels of tetracyclines in surface water using a continuous flow manifold coupled to a capillary electrophoresis system," *Anal Chimica Acta* **2004**, *517*(1-2):89-94. http://www.sciencedirect.com/science/article/B6TF4-4CKFKHT-5/2/acc0e00878021c9259ac7759c95d7f43.

Nriagu JO. "Book Review: Thomas Ternes and Adriano Joss, Editors, Human Pharmaceuticals, Hormones and Fragrances: The Challenge of Micropollutants in Urban Water Management, [IWA Publishing (2006) ISBN 1843390930 468 pp]," *Sci Total Environ* **2007**, *372*(2-3):729-729. http://www.sciencedirect.com/science/article/B6V78-4MGVHYG-1/2/efc261f4e8b6a7c466c6731d0ccbbc74.

Nunes B, Carvalho F, and Guilhermino L. "Acute and chronic effects of clofibrate and clofibric acid on the enzymes acetylcholinesterase, lactate dehydrogenase and catalase of the mosquitofish, Gambusia holbrooki," *Chemosphere* **2004**, *57*(11):1581-1589. http://www.sciencedirect.com/science/article/B6V74-4DM28B2-4/2/b1820ecfb23138faa91a83669b503114. Nunes B, Carvalho F, and Guilhermino L. "Acute toxicity of widely used pharmaceuticals in aquatic species: Gambusia holbrooki, Artemia parthenogenetica and Tetraselmis chuii," *Ecotoxicol Environ Safety* **2005**, *61*(3):413-419. http://www.sciencedirect.com/science/article/B6WDM-4DPYJ85-2/2/740b9ef02fc2d8470a46b06a45c32b66.

Nunes B, Carvalho F, and Guilhermino L. "Effects of widely used pharmaceuticals and a detergent on oxidative stress biomarkers of the crustacean Artemia parthenogenetica," *Chemosphere* **2006**, *62*(4):581-594.

Nunes B, Gaio AR, Carvalho F, and Guilhermino L. "Behaviour and biomarkers of oxidative stress in Gambusia holbrooki after acute exposure to widely used pharmaceuticals and a detergent," *Ecotoxicol Environ Safety* **2008**, *In Press, Corrected Proof*:84. http://www.sciencedirect.com/science/article/B6WDM-4RW4S17-3/2/c7b1eee78e13fb5e87c775d696249a6c.

Nwankpa C, Hammond E, and LaiHing K. "Detection of pharmaceuticals and personal care products in industrial and residential effluent wastewater," *Abstracts of Papers of the Amer Chem Soc* **2006**, *231*(March 26).

Nyamweya N, Mehta KA, and Hoag SW. "Characterization of the interactions between polymethacry late-based aqueous polymeric dispersions and aluminum lakes," *J Pharm Sci* **2001**, *90*:1937-1947.

Nygaard K, Lunestad BT, Hektonen H, Berge JA, and Hormazabal V. "Resistance to oxytetracycline, oxolinic acid and furazolidone in bacteria from marine sediments," *Aquaculture* **1992**, *104*(1-2):31-36. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=2776736&q=&uid =792698393&setcookie=yes.

Nzeako BC, Okafor N, and Inyang MM. "Gross bacterial contamination associated with mortality in catfish fingerlings during transportation," *South African J Wildlife Res* **2001**, *31*:93-97.

Oaks JL, Gilbert M, Virani MZ, Watson RT, Meteyer CU, Rideout BA, et al. "Diclofenac residues as the cause of vulture population decline in Pakistan," *Nature* **2004**, *427*(6975):630-633. http://www.nature.com/nature/journal/v427/n6975/full/nature02317.html.

Obando MA, Estela JM, and Cerdà V. "Multi-syringe chromatography (MSC) system for the on-line solid-phase extraction and determination of hydrochlorothiazide and losartan potassium in superficial water, groundwater and wastewater outlet samples," *J Pharm Biomed Anal* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGX-4SJP7D0-1/1/8ae1893dc86539a25870d9fde9828483.

Oberdorster EVA. "Peptide Hormones Versus Steroid Hormones: Case Studies from Snail and Turtle Populations," *Ann NY Acad Sci* **2001**, *948*(1):75-79. http://www.annalsnyas.org/cgi/content/abstract/948/1/75.

Oberdorster G, Oberdorster E, and Oberdorster J. "Nanotoxicology: An emerging discipline evolving from studies of ultrafine particles," *Environ Health Perspect* **2005**, *113*(7):823-839.

O'Brien E, and Dietrich DR. "Hindsight rather than foresight: reality versus the EU draft guideline on pharmaceuticals in the environment," *Trends Biotechnol* **2004**, *22*(7):326-330.

http://www.sciencedirect.com/science/article/B6TCW-4CDHH9H-1/2/27ec7837682ae44c375a9f8d6466c798.

Obst U, Schwartz T, and Volkmann H. "Antibiotic resistant pathogenic bacteria and their resistance genes in bacterial biofilms," *Internat J Artificial Organs* **2006**, *29*(4):387-394.

Ochel H-J, Elchorn K, and Gademann G. "Geldanamycin: The prototype of a class of antitumor drugs targeting the heat shock protein 90 family of molecular chaperones," *Cell Stress Chaperones* **2001**, 6(2):105-112.

O'Connor GA, Elliott HA, Basta NT, Bastian RK, Pierzynski GM, Sims RC, et al. "Sustainable land application: an overview," *J Environ Qual* **2005**, *34*(1):7-17.

O'Connor S, and Aga DS. "Analysis of tetracycline antibiotics in soil: Advances in extraction, cleanup, and quantification," *TrAC Trends Anal Chem* **2007**, *26*(6):456-465. http://www.sciencedirect.com/science/article/B6V5H-4N49VDP-4/2/1f0148808db37987a1a8f90ddba96f3a.

O'Connor S, Locke J, and Aga DS. "Addresing the chalenges of tetracycline analysis in soil: extraction, clean-up, and matrix effects in LC-MS," *J Environ Monit* **2007**, *9*(11):1254-1262. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b711731k.

O'Donohue WT, and Levensky ER, Eds., "Promoting Treatment Adherence: A Practical Handbook for Health Care Providers," Sage Publications Inc, 2006, 458 pp. http://books.google.com/books?id=tmiygzmpv3QC&dq=promoting+treatment+adherence+a+practical +handbook+for+health+care+providers&psp=1&source=gbs_summary_s&cad=0.

Odráška P. "Vyzkumne centrum pro chemii zivotniho prostredi a ekotoxikologh," Doctoral Dissertation, Masarykova Univerzita, Brno, Česká republika, 2006. 90 pp. http://is.muni.cz/th/64017/prif_m/text_prace.pdf.

ODS (NIH Office of Dietary Supplements) "The International Bibliographic Information on Dietary Supplements (IBIDS) database." 1999. http://ods.od.nih.gov/databases/ibids.html.

OECD. "OECD Guideline for testing of chemicals 201. Ready Biodegradability," 1992, pp.

OECD. "OECD Guideline for the testing of chemicals 106. Adsorption - desorption using a batch equilibrium method," 2000, pp.

OECD. "Caffeine. SIDS Initial assessment rep9ort for SIAM 13.," Bern, Switzerland, 2001, pp.

OECD. "OECD Guideline for the testing of chemicals 303. Simulation test - aerobic sewage treatment," 2001, pp.

OECD. "Theophylline. SIDS Initial assessment report for SIAM 13.," Bern, Switzerland, 2001, pp.

OECD. "OECD Guideline for the testing of chemicals. Draft proposal for a new guideline 4XX: The stably transfected human estrogen receptor- α transcriptional activation assay for detection of

estrogenic agonist-activity of chemicals," June 5, 2008, 24 pp. https://www.oecd.org/dataoecd/0/51/40787614.pdf.

Oehlmann J, Di Benedetto P, Tillmann M, Duft M, Oetken M, and Schulte-Oehlmann U. "Endocrine disruption in prosobranch molluscs: evidence and ecological relevance," *Ecotoxicology* **2007**, *16*(1):29-43. http://www.ingentaconnect.com/content/klu/ectx/2007/00000016/00000001/00000109 http://dx.doi.org/10.1007/s10646-006-0109-x.

Oellers S, Singer HP, Faessler P, and Mueller RS. "Simultaneous quantification of neutral and acidic pharmaceuticals and pesticides at the low – ng/L level in surface and waste water," *J Chromatogr A* **2001**, *911*(2):225-234. http://cat.inist.fr/?aModele=afficheN&cpsidt=910213.

Oetken M, Nentwig G, Loffler D, Ternes T, and Oehlmann J. "Effects of pharmaceuticals on aquatic invertebrates. Part I. The antiepileptic drug carbamazepine," *Arch Environ Contam Toxicol* **2005**, *49*(3):353-361. <Go to ISI>://CCC:000232053200009.

Office of the Revisor of Statutes. "An Act To Encourage the Proper Disposal of Unused Pharmaceuticals," **2005**, http://janus.state.me.us/legis/ros/lom/LOM121st/15Pub651-700/Pub651-700-126.htm.

Ofomaja A. "Sorptive removal of Methylene blue from aqueous solution using palm kernel fibre: Effect of fibre dose," *Biochem Eng J* **2008**, *40*(1):8-18.

Ogata T, and Terakado Y. "Rare earth element abundances in some seawaters and related river waters from the Osaka Bay area, Japan: Significance of anthropogenic Gd," *Geochem J* **2006**, *40*(5):463-474.

Ogbonna DN, Sokari TG, and Amaku GE. "Antibiogram of bacterial flora of tilapia zilli from creeks around Port Harcourt, Nigeria," *Environ Sci Technol* **2008**, *1*(1):27-33. http://www.ansijournals.com/3/detail.php?id=1&jid=jest&theme=3&issueno=6&articleno=2.

Ogun E, Atalan E, and Ozdemir K. "Some pollution parameters in water samples from Lake Van, Turkey," *Fres Environ Bull* **2005**, *14*:1031-1035.

Ogunseitan OA. "Caffeine-inducible enzyme activity in Pseudomonas putida ATCC 700097," *World J Microbiol Biotechnol* **2002**, *18*(5):423-428.

Oh BS, Jang HY, Hwang TM, and Kang J-W. "Role of ozone for reducing fouling due to pharmaceuticals in MF (microfiltration) process," *J Membrane Sci* **2007**, *289*(1-2):178-186. http://www.sciencedirect.com/science/article/B6TGK-4MGM2RM-1/2/af5e40717f05e8fe6f36e31ee58119b4.

Oh EK, Ban E, Woo JS, and Kim CK. "Analysis of carbamazepine and its active metabolite, carbamazepine-10,11-epoxide, in human plasma using high-performance liquid chromatography," *Anal Bioanal Chem* **2006**, *386*:1931-1936.

Oh SJ, Park J, Lee MJ, Park SY, Lee J-H, and Choi K. "Ecological hazard assessment of major veterinary benzimidazoles: acute and chronic toxicities to aquatic microbes and invertebrates," *Environ Toxicol Chem* **2006**, *25*(8):2221-2226.

Ohkubo N, Mochida K, Adachi S, Hara A, Hotta K, Nakamura Y, et al. "Estrogenic activity in coastal areas around Japan evaluated by measuring male serum vitellogenins in Japanese common goby Acanthogobius flavimanus," *Fisheries Sci* **2003**, *69*(6):1135-1145.

Ohlsen K, Ternes T, Werner G, Wallner U, Loffler D, Ziebuhr W, et al. "Impact of antibiotics on conjugational resistance gene transfer in Staphylococcus aureus in sewage," *Environ Microbiol* **2003**, *5*(8):711-716. http://www.ingentaconnect.com/content/bsc/emi/2003/00000005/00000008/art00009 http://dx.doi.org/10.1046/j.1462-2920.2003.00459.x.

Ohtani H, Miura I, and Ichikawa Y. "Effects of dibutyl phthalate as an environmental endocrine disruptor on gonadal sex differentiation of genetic males of the frog Rana rugosa," *Environ Health Perspect* **2000**, *108*(12):1189-1193.

Oishi S. "Lack of spermatotoxic effects of methyl and ethyl esters of ρ-hydroxybenzoic acid in rats," *Food Chem Toxicol* **2004**, *42*(11):1845-1849. http://www.sciencedirect.com/science/article/B6T6P-4D1MXNH-1/2/fa60cc7ca9f689c36d08c9c8a8928a2b.

Oka H, Ito Y, and Matsumoto H. "Chromatographic analysis of tetracycline antibiotics in foods," *J Chromatogr A* **2000**, *882*(1-2):109-133. http://www.ncbi.nlm.nih.gov/pubmed/10895938.

Okeke CC. "Current USP requirements and proposals on packaging systems," *Am Pharm Outsourcing* **2002**, *3*(2):34-38.

Oktem YA, Ince O, Sallis P, Donnelly T, and Ince BK. "Anaerobic treatment of a chemical synthesisbased pharmaceutical wastewater in a hybrid upflow anaerobic sludge blanket reactor," *Bioresource Technol* **2008**, *99*(5):1089-1096. http://www.sciencedirect.com/science/article/B6V24-4NJ26HF-*3/1/d75411cae84d13116c3d5e695894624c.*

Okumura T, and Nishikawa Y. "Gas chromatography--mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane," *Anal Chimica Acta* **1996**, *325*(3):175-184. http://www.sciencedirect.com/science/article/B6TF4-3VJRP66-6/2/b7871ad678de2d7c9fb2ac15fe45c854.

Oleksy-Frenzel J, Wischnack S, and Jekel M. "Bestimmung der organischen Gruppenparameter AOCl, AOBr and AOI in Kommunalabwasser [Determination of organic group parameters AOCl, AOBr and AOI in municipal waste water]," *Vom Wasser* **1995**, 85:59-67. http://cat.inist.fr/?aModele=afficheN&cpsidt=2916090.

Ollers S, Singer HP, Fassler P, and Muller SR. "Simultaneous quantification of neutral and acidic pharmaceuticals and pesticides at the low-ng/l level in surface and waste water," *J Chromatogr A* **2001**, *911*(2):225-234. http://www.sciencedirect.com/science/article/B6TG8-42D2BM5-9/2/cdbc4f49656b71f11da037f63808eee5.

Olney JW, Farber NB, Wozniak DF, Jevtovic-Todorovic V, and Ikonomidou C. "Environmental agents that have the potential to trigger massive apoptotic neurodegeneration in the developing brain," *Environ Health Perspect* **2000**, *108*(Suppl 3):383-388. http://www.ncbi.nlm.nih.gov/pubmed/10852832?dopt=Citation. Olsen B, and Bergström S. "Läkaren har ett ekologiskt ansvar (The doctor has an environmental responsibility)," *Läkartidningen* **1997**, *94*:2010-2011.

Olson KR. "Poisoning & Drug Overdose, 5th Edition." San Francisco, CA, The McGraw-Hill Companies, 2006, pp. http://www.accessmedicine.com/resourceTOC.aspx?resourceID=91.

Oltvai ZN, and Barabási A-L. "Systems Bioloty: Life's complexity pyramid," *Science* **2002**, *298*:763-764.

Onan LJ, and LaPara TM. "Tylosin-resistant bacteria cultivated from agricultural soil," *FEM Microbiol Lett* **2003**, 220(1):15-20. http://www.sciencedirect.com/science/article/B6T2W-47TNGWM-2/2/029322d8eebacf409b7f5500873dc3b5.

Onda K, Nakamura Y, Takatoh C, Miya A, and Katsu Y. "The behavior of estrogenic substances in the biological treatment process of sewage," *Wat Sci Technol* **2003**, *47*(9):109-116.

Ongerth JE, and Khan S. "Drug residuals: How xenobiotics can affect water supply sources," *Am Wat Assoc J* **2004**, *96*(5):94-101.

Oppel J, Broll G, Loffler D, Meller M, Rombke J, and Ternes T. "Leaching behaviour of pharmaceuticals in soil-testing-systems: a part of an environmental risk assessment for groundwater protection," *Sci Total Environ* **2004**, *328*(1-3):265-273. http://www.sciencedirect.com/science/article/B6V78-4CMXKDR-7/2/9f32a69e18b8a0994f33af9b008f79ac.

Oppel J, Broll G, Loffler D, Meller M, Rombke J, and Ternes T. "Corrigendum to 'Leaching behaviour of pharmaceuticals in soil-testing-systems: a part of an environmental risk assessment for groundwater protection' [Sci. Total Environ. 328 (2004) 265-273]," *Sci Total Environ* **2005**, *336*(1-3):285. http://www.sciencedirect.com/science/article/B6V78-4DC43KJ-2/2/f6396685c1db39e8fb4e8fe813bc4c6f.

Oppenheimer J, Stephenson R, Burbano A, and Liu L. "Characterizing the passage of personal care products through wastewater treatment processes," *Wat Environ Res* **2007**, *79*(13):2564-2577. http://www.ncbi.nlm.nih.gov/pubmed/18198702 http://services.inist.fr/cgibin/public/views_doc?file=/applis/services/topic/data/00/08/22/78/35400017431496/35400017431496 0110.art&modele=eng/a_view91.htm.

Oppenheimer J, Stephenson R, and Decarolis J, "Emerging Contaminants: Insights to the Most Effective EDC and PPCP Treatment Strategies," *Opflow Online* 2008, http://www.awwa.org/publications/OpFlowArticle.cfm?itemnumber=35333.

Opperdoes FR, and Michels PAM. "Enzymes of carbohydrate metabolism as potential drug targets," *Internat J Parasitol* **2001**, *31*(5-6):481-489. http://www.sciencedirect.com/science/article/B6T7F-42WX3BM-9/2/5a7704cddc2525cc35b413f86311fa5c.

O'Reilly A, and Smith P. "Development of methods for predicting the minimum concentrations of oxytetracycline capable of exerting a selection for resistance to this agent," *Aquaculture* **1999**, *180*(1-

2):1-11. http://www.sciencedirect.com/science/article/B6T4D-3X8G4YP-1/2/c3fa742e89e8e20a9ece92bb0f0d3b51.

Orlando EF, Kolok AS, Binzcik GA, Gates JL, Horton MK, Lambright CS, et al. "Endocrinedisrupting effects of cattle feedlot effluent on an aquatic sentinel species, the fathead minnow," *Environ Health Perspect* **2004**, *112*(3):353-358. <Go to ISI>://CCC:000220047700035.

Orn S, Holbech H, Madsen TH, Norrgren L, and Petersen GI. "Gonad development and vitellogenin production in zebrafish (Danio rerio) exposed to ethinylestradiol and methyltestosterone," *Aqua Toxicol* **2003**, *65*(4):397-411. http://www.sciencedirect.com/science/article/B6T4G-49MX424-1/2/f55fce4b1d79b2ba9d0a01ae6f1ce12b.

Orn S, Yamani S, and Norrgren L. "Comparison of Vitellogenin Induction, Sex Ratio, and Gonad Morphology Between Zebrafish and Japanese Medaka After Exposure to 17α-Ethinylestradiol and 17β-Trenbolone," *Arch Environ Contam Toxicol* **2006**, *51*(2):237-243. http://www.springerlink.com/content/aw1011p52380v226/.

Oros DR, and David N. "Identification and evaluation of unidentified organic contaminants in the San Francisco Estuary," San Francisco Estuary Institute, RMP Technical Report: SFEI Contribution 45, Oakland, CA, August, 2002, 111 pp. http://www.sfei.org/rmp/reports/unidentified contaminants/unidentifiedcont.pdf.

Oros DR, Jarman WM, Lowe T, David N, Lowe S, and Davis JA. "Surveillance for previously unmonitored organic contaminants in the San Francisco Estuary," *Mar Pollut Bull* **2003**, *46*(9):1102-1110. http://www.sciencedirect.com/science/article/B6V6N-48VTCJ8-3/2/85a8effc804ce6ff2c6dbe81e2dc62ac.

O'Rourke K. "Euthanatized animals can poison wildlife: Veterinarians receives fines," *J Am Vet Med Assoc* 2002, 220(2):168-218. http://www.avma.org/onlnews/javma/jan02/s011502d.asp.

Orprecio R, and Evans CH. "Polymer-immobilized cyclodextrin trapping of model organic pollutants in flowing water streams," *J Appl Polymer Sci* **2003**, *90*(8):2103-2110.

Ort C, Schaffner C, Giger W, and Gujer W. "Modeling stochastic load variations in sewer systems," *Wat Sci Technol* **2005**, *52*(5):113-122.

Ortega C, Gimeno O, Blanc V, Cortes P, Ania S, and Llagostera M. "Antibiotic susceptibility of strains of Aeromonas salmonicida isolated from spanish salmonids," *Revue De Medecine Veterinaire* **2006**, *157*:410-414.

Ortiz-Zarragoitia M, and Cajaraville MP. "Effects of selected xenoestrogens on liver peroxisomes, vitellogenin levels and spermatogenic cell proliferation in male zebrafish," *Comp Biochem Physiol Part C Toxicol & Pharmacol* 2005, *141*(2):133-144. http://www.sciencedirect.com/science/article/B6W89-4GJM3S9-1/2/89d3af9fa7a10f9dcf0cf34876c85990.

Ortiz-Zarragoitia M, Trant JM, and Cajaraville MP. "Effects of dibutylphthalate and ethynylestradiol on liver peroxisomes, reproduction, and development of zebrafish (Danio rerio)," *Environ Toxicol Chem* **2006**, *25*(9):2394-2404.

Orvos DR, Versteeg DJ, Inauen J, Capdevielle M, Rothenstein A, and Cunningham V. "Aquatic toxicity of triclosan," *Environ Toxicol Chem* **2002**, *21*(7):1338-1349. http://dx.doi.org/10.1897%2F1551-5028%282002%29021%3C1338%3AATOT%3E2.0.CO%3B2.

Osemwengie LI. "Levels of Synthetic Musks in Municipal Wastewater for Estimating Biota Exposure in Receiving Waters," Doctoral Dissertation, University of Nevada Las Vegas, Las Vegas, NV, 2002. 162 pp.

Osemwengie LI. "Determination of synthetic musk compounds in sewage biosolids by gas chromatography/mass spectrometry," *J Environ Monit* **2006**, *8*(9):897-903. http://www.rsc.org/Publishing/Journals/EM/article.asp?doi=b603113g.

Osemwengie LI, and Gerstenberger SL. "Levels of synthetic musk compounds in municipal wastewater for potential estimation of biota exposure in receiving waters," *J Environ Monit* **2004**, 6(6):533-539.

Osemwengie LI, and Steinberg S. "On-site solid-phase extraction and laboratory analysis of ultra-trace synthetic musks in municipal sewage effluent using gas chromatography-mass spectrometry in the full-scan mode," *J Chromatogr A* **2001**, *932*(1-2):107-118. http://www.sciencedirect.com/science/article/B6TG8-443K0BF-B/2/cbb2cc47f934fc8382763af015f82dc6.

Osemwengie LI, and Steinberg S. "Closed-loop stripping analysis of synthetic musk compounds from fish tissues with measurement by gas chromatography-mass spectrometry with selected-ion monitoring," *J Chromatogr A* **2003**, *993*(1-2):1-15. http://www.sciencedirect.com/science/article/B6TG8-48BKHH0-3/2/713e2c94825bb0fe8680c26cf22365ba.

Osenbruck K, Glaser H-R, Knoller K, Weise SM, Moder M, Wennrich R, et al. "Sources and transport of selected organic micropollutants in urban groundwater underlying the city of Halle (Saale), Germany," *Wat Res* **2007**, *41*(15):3259-3270. http://www.sciencedirect.com/science/article/B6V73-4NS0KMD-1/2/e74a57f6e46aa7f1b67bea9fc35c606a.

OSPAR Commission. "Musk xylene and other musks," OSPAR Background Document - Hazardous Substances Series, 2004, www.ospar.org/eng/html/welcome.html

Osterberg D, and Wallinga D. "Addressing externalities from swine production to reduce public health and environmental impacts," *Am J Public Health* **2004**, *94*(10):1703-1708.

Oszlanczi A, Bota A, and Klumpp E. "Layer formations in the bacteria membrane mimetic DPPE-DPPG/water system induced by sulfadiazine," *Biophysical Chem* **2007**, *125*(2-3):334-340. http://www.sciencedirect.com/science/article/B6TFB-4M3J11W-1/2/562107c125066bc53868b4b4fb7b2591.

Otero M, Zabkova M, Grande CA, and Rodrigues AE. "Fixed-bed adsorption of salicylic acid onto polymeric adsorbents and activated charcoal," *Indus Engineering Chem Res* **2005**, *44*(4):927-936.

Otero M, Zabkova M, and Rodrigues AE. "Comparative study of the adsorption of phenol and salicylic acid from aqueous solution onto nonionic polymeric resins," *Sep Purification Technol* **2005**, *45*(2):86-95. http://www.sciencedirect.com/science/article/B6THJ-4FY9MHD-1/2/d890b4d9526eea0465de1bb9d2d5d45c.

Otker HM, and Akmehmet-Balcioglu I. "Adsorption and degradation of enrofloxacin, a veterinary antibiotic on natural zeolite," *J Hazardous Mat* **2005**, *122*(3):251-258. http://www.sciencedirect.com/science/article/B6TGF-4FSK7PS-1/2/3acb08425332125d062aee73737fd282.

O'Toole S, and Metcalfe C. "Synthetic musks in fish from urbanized areas of the Lower Great Lakes, Canada," *J Great Lakes Res* **2006**, *32*(2):361-369.

Otterpohl R. "Options for alternative types of sewerage and treatment systems directed to improvement of the overall performance," *Wat Sci Technol* **2002**, *45*(3):149-158.

Outten CE, and O'Halloran TV. "Femtomolar sensitivity of metalloregulatory proteins controlling zinc homeostasis," *Science* **2001**, *292*(5526):2488-2492. http://www.ncbi.nlm.nih.gov/pubmed/11397910.

Overcash M, Sims RC, Sims JL, and Nieman JKC. "Beneficial reuse and sustainability: The fate of organic compounds in land-applied waste," *J Environ Qual* **2005**, *34*:29-41.

Owen SF, Giltrow E, Huggett DB, Hutchinson TH, Saye J, Winter JJ, et al. "Comparative physiology, pharmacology and toxicology of β-blockers: Mammals versus fish," *Aqua Toxicol* **2007**, *82*(3):145-162.

Owens RC, Jr. "Antimicrobial stewardship: concepts and strategies in the 21st century," *Diagn Microbiol Infect Dis* **2008**, *61*(1):110-128.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18384997.

Owens RC, Jr., and Ambrose PG. "Antimicrobial stewardship and the role of pharmacokineticspharmacodynamics in the modern antibiotic era," *Diagn Microbiol Infect Dis* **2007**, *57*(3 Suppl):77S-83S.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17292579.

Oxley DV. "Putting a Value on Drug Waste (letter)," Pharm J 1996, 256.

Ozcan B, Cokmus C, Coleri A, and Caliskan M. "Characterization of extremely halophilic Archaea isolated from saline environment in different parts of Turkey," *Microbiology* **2006**, *75*:739-746.

P B, A B, B H-S, S H, S I, A J, et al. "Environmental Risk Assessment for Veterinary Medicinal Products Part 5. A guide to risk assessment of veterinary medicinal products used in animal husbandry," Montforts MHMM, Ed., 7 Oct, 2003, 78 pp. http://hdl.handle.net/10029/8996.

Paasivirta J, Sinkkonen S, Rantalainen AL, Broman D, and Zebuhr Y. "Temperature dependent properties of environmentally important synthetic musks," *Environ Sci Pollut Res* **2002**, *9*(5):345-355.

Pablo Lamas J, Salgado-Petinal C, Garcia-Jares C, Llompart M, Cela R, and Gomez M. "Solid-phase microextraction-gas chromatography-mass spectrometry for the analysis of selective serotonin reuptake inhibitors in environmental water," *J Chromatogr A* **2004**, *1046*(1-2):241-247. http://www.sciencedirect.com/science/article/B6TG8-4CXDR2Y-C/2/b5aa9181c45f0077173ec7b53234ae95.

Pachura-Bouchet S, Blaise C, and Vasseur P. "Toxicity of nonylphenol on the cnidarian Hydra attenuata and environmental risk assessment," *Environ Toxicol* **2006**, *21*(4):388-394.

Packer JL, Latch DE, McNeill K, and Arnold WA. "Photochemical fate of pharmaceuticals in the environment: Naproxen, ibuprofen, diclofenac and clofibric acid," *Abstracts of Papers of the AmChem Soc* **2003**, *225*(1 March): U832.

Packer JL, Werner JJ, Latch DE, McNeill K, and Arnold WA. "Photochemical fate of pharmaceuticals in the environment: Naproxen, diclofenac, clofibric acid, and ibuprofen," *Aqua Sci* **2003**, *65*(4):342-351.

Paffoni C, Welte B, Gousailles M, and Montiel A. "New molecules involved by the European directives: From wastewater to drinking water treatment plants [Nouvelles molecules mises en cause par les directives européennnes: De la station d'épuration à l'usine de traitement d'eau potable]," *J Européen d'Hydrologie* **2006**, *37*:21-38.

Pai MP, Graci DM, and Bertino JS. "Waste generation of drug product samples versus prescriptions obtained through pharmacy dispensing," *Pharmacotherapy* **2000**, *20*(5):593-595. http://www.medscape.com/viewarticle/409553.

Pailler F-M. "The pharmaceutical industry and the impact of drugs on the environment," *Environment, Risques & Sante* **2006**, *5*(4):311-314. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1D/05/resume.md?type=text.html.

Pait AS, Warner RA, Hartwell SI, Nelson JO, Pacheco PA, and Mason AL. "Human use pharmaceuticals in the estuarine environment: A survey of the Chesapeake Bay, Biscayne Bay, and Gulf of the Farallones," *NOAA Technical Memorandum* **2006**, *NOS NCCOS* 7.

Paixao TRLC, Camargo Matos R, and Bertotti M. "Diffusion layer titration of dipyrone in pharmaceuticals at a dual-band electrochemical cell," *Talanta* **2003**, *61*(5):725-732. http://www.sciencedirect.com/science/article/B6THP-491J501-8/2/d5f3e8d26a2f4bf2c8fb98b40a1f5fd0.

Paje MLF, Kuhlicke U, Winkler M, and Neu TR. "Inhibition of lotic biofilms by diclofenac," *Appl Microbiol Biotech* **2002**, *59*(4-5):488-492.

Pak K. "Biomedicine: A wonder drug?," Science 2000, 290:1857.

Palace VP, Evans RE, Wautier K, Baron C, Van den byllardt L, Vandersteen W, et al. "Induction of vitellogenin and histological effects in wild fathead minnows from a lake experimentally treated with the synthetic estrogen, ethynylestradiol," *Wat Qual Res J Canada* **2002**, *37*(3):637-650. http://cat.inist.fr/?aModele=afficheN&cpsidt=13862149. Palace VP, Evans RE, Wautier K, Baron CL, Werner J, Klaverkamp JF, et al. "Altered distribution of lipid-soluble antioxidant vitamins in juvenile sturgeon exposed to waterborne ethynylestradiol," *Environ Toxicol Chem* **2001**, *20*(10):2370-2376. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(2001)020%3C2370%3AADOLSA%3E2.0.CO%3B2.

Palace VP, Wautier KG, Evans RE, Blanchfield PJ, Mills KH, Chalanchuk SM, et al. "Biochemical and histopathological effects in pearl dace (Margariscus margarita) chronically exposed to a synthetic estrogen in a whole lake experiment," *Environ Toxicol Chem* **2006**, *25*(4):1114-1125. http://cat.inist.fr/?aModele=afficheN&cpsidt=17642965.

Paladino JA. "Pharmacoeconomics of antimicrobial therapy," *Am J Health - System Pharmacy* **1999**, *56*:S25-S28.

Palhares D, and Grisolia CK. "Comparison between the micronucleus frequencies of kidney and gill erythrocytes in tilapia fish, following mitomycin C treatment," *Genet Mol Biol* **2002**, *25*(3):281-284. http://www.scielo.br/scielo.php?pid=S1415-47572002000300005&script=sci_arttext&tlng=en.

Palmer PM, Wilson LR, O'Keefe P, Sheridan R, King T, and Chen C-Y. "Sources of pharmaceutical pollution in the New York City Watershed," *Sci Total Environ* **2008**, *394*(1):90-102. http://www.sciencedirect.com/science/article/B6V78-4RV7GPP-4/1/e21f36ae8ae1a4592b1b70bd4ac8e8c8.

Palmieri MA, Freeman C, and Kotkoskie LA. "Developmental toxicity study of Aquacoat(R) ECD ethylcellulose aqueous dispersion administered orally to rats," *Food Chem Toxicol* **2000**, *38*(1):71-74. http://www.sciencedirect.com/science/article/B6T6P-3YMF6YG-9/2/d10c780ab7370abf55b7868d16e86747.

Pan X, Zhang D, Deng C, Liu C, Wang J, and Mu G. "Toxic effects of amoxicillin on the photosystem II of Synechocystis sp. characterized by a variety of in vivo chlorophyll fluorescence tests," *Aquatic Toxicology* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T4G-4SYCPMN-1/1/1fcfebab01d327ee5a970baab3a98128.

Panouilleres M, Boillot C, and Perrodin Y. "Study of the combined effects of a peracetic acid-based disinfectant and surfactants contained in hospital effluents on Daphnia magna," *Ecotoxicology* **2007**, *16*(3):327-340.

Panter GH, Hutchinson TH, Hurd KS, Sherren A, Stanley RD, and Tyler CR. "Successful detection of (anti-)androgenic and aromatase inhibitors in pre-spawning adult fathead minnows (Pimephales promelas) using easily measured endpoints of sexual development," *Aqua Toxicol* **2004**, *70*(1):11-21. http://cat.inist.fr/?aModele=afficheN&cpsidt=16156242.

Panter GH, Hutchinson TH, Lange R, Lye CM, Sumpter JP, Zerulla M, et al. "Utility of a juvenile fathead minnow screening assay for detecting (anti-)estrogenci substances," *Environ Toxicol Chem* **2002**, *21*(2):319-326. http://dx.doi.org/10.1897%2F1551-5028%282002%29021%3C0319%3AUOAJFM%3E2.0.CO%3B2.

Panter GH, Thompson RS, and Sumpter JP. "Intermittent exposure of fish of estradiol," *Environ Sci Technol* **2000**, *34*(13):2756-2760. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i13/abs/es991117u.html.

Panusa A, Multari G, Incarnato G, and Gagliardi L. "High-performance liquid chromatography analysis of anti-inflammatory pharmaceuticals with ultraviolet and electrospray-mass spectrometry detection in suspected counterfeit homeopathic medicinal products," *J Pharm Biomed Anal* **2007**, *43*(4):1221-1227.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17127029.

Pao SS, Paulsen IT, and Saier MHJ. "Major facilitator superfamily," *Microbiol Mol Biol Rev* **1998**, 62(1):1-34.

Paone RP, Vogenberg FR, Caporello E, Rutkowski J, Parent R, and Fachetti F. "Medication Destruction and Waste Measurement and Management in Long-term Care Facilities," *Consult Pharm* **1996**, *11*:32-40. http://www.ascp.com/public/pubs/tcp/1996/jan/mdwm.html.

Papa E, Fick J, Lindberg R, Johansson M, Gramatica P, and Andersson PL. "Multivariate Chemical Mapping of Antibiotics and Identification of Structurally Representative Substances," *Environ Sci Technol* **2007**, *41*(5):1653-1661. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es060618u.

Papadopoulou-Mourkidou E, Patsias J, Papadakis E, and Koukourikou A. "Use of an automated online SPE-HPLC method to monitor caffeine and selected aniline and phenol compounds in aquatic systems of Macedonia-Thrace, Greece," *Fres J Anal Chem* **2001**, *371*(4):491-496.

Papapetropoulou M. "Spread of bacterial resistance to antibiotics through the aquatic environment," *Acta Microbiol Hellenica* **1995**, *40*(6):473-479.

Paperiello C, J. "Risk assessment and risk management implications of hormesis," *J Appl Toxicol* **2000**, *20*(2):147-148. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<147::AID-JAT646>3.0.CO;2-G.

Paradisi F, Corti G, and Messeri D. "Antistaphylococcal (MSSA, MRSA, MSSE, MRSE) antibiotics," *Med Clin North America* **2001**, *85*:1-17.

Pardeshi SK, and Patil AB. "Solar photocatalytic degradation of resorcinol a model endocrine disrupter in water using zinc oxide," *J Haz Mat* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TGF-4SX9G1T-2/1/c9b06ca89d3e828199a5bcdf21e0b785.

Pariente MI, Martínez F, Melero JA, Botas JÁ, Velegraki T, Xekoukoulotakis NP, et al. "Heterogeneous photo-fenton oxidation of benzoic acid in water: Effect of operating conditions, reaction by-products and coupling with biological treatment," *Applied Catalysis B: Environmental* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TF6-4SWFNR8-4/1/e9b61b0eace85b91c8841655fccd0ad6. Parisheva Z, and Nusheva L. "Ozonation of aqueous solutions of salicylic acid," *Environ Protection Eng* **2007**, *33*(1):143-150. http://direct.bl.uk/bld/PlaceOrder.do?UIN=206897260&ETOC=RN&from=searchengine.

Park BJ, and Kidd KA. "Effects of the synthetic estrogen ethinylestradiol on early life stages of mink frogs and green frogs in the wild and in situ," *Environ Toxicol Chem* **2005**, *24*(8):2027-2036. http://www.setacjournals.org/perlserv/?SESSID=342c29674c3a62927ae276d5cc7e9f95&request=get-abstract&doi=10.1897%2F04-227R.1.

Park BK, Kitteringham NR, and O'Neill PM. "Metabolism of fluorine-containing drugs," *Ann Rev Pharmacol Toxicol* **2001**, *41*(1):443-470. http://arjournals.annualreviews.org/doi/abs/10.1146/annurev.pharmtox.41.1.443.

Park GY, Lee JH, Kim IS, and Cho J. "Pharmaceutical rejection by membranes for wastewater reclamation and reuse," *Wat Sci Technol* **2004**, *50*(2):239-244.

Park H, and Choung Y-K. "Degradation of Antibiotics (Tetracycline, Sulfathiazole, Ampicillin) Using Enzymes of Glutathion S-Transferase," *Human Ecolog Risk Assess* **2007**, *13*(5):1147-1155. http://www.ingentaconnect.com/content/tandf/bher/2007/00000013/00000005/art00011 http://dx.doi.org/10.1080/10807030701506223.

Park JW, Hong JSJ, Parajuli N, Koh HS, Park SR, Lee MO, et al. "Analytical Profiling of Biosynthetic Intermediates Involved in the Gentamicin Pathway of Micromonospora echinospora by High-Performance Liquid Chromatography Using Electrospray Ionization Mass Spectrometric Detection," *Anal Chem* **2007**, *79*(13):4860-4869. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac070028u.

Parkkonen J, Larsson DGJ, Adolfsson-Erici M, Pettersson M, Berg AH, Olsson PE, et al. "Contraceptive pill residues in sewage effluent are estrogenic to fish," *Mar Environ Res* **2000**, *50*(1-5):198-198. http://www.sciencedirect.com/science/article/B6V7H-41MJ1C2-2S/1/3f6a3a4943b8b7576839b67fde0ab72e.

Parks LG, and LeBlanc GA. "Involvement of Multiple Biotransformation Processes in the Metabolic Elimination of Testosterone by Juvenile and Adult Fathead Minnows (Pimephales promelas)," *Gen Comp Endocrinol* **1998**, *112*(1):69-79. http://www.sciencedirect.com/science/article/B6WG0-45JC9NF-1J/1/95e5bfde43568ee3296f56d0e700c005.

Parrott JL, and Blunt BR. "Life-cycle exposure of fathead minnows (Pimephales promelas) to an ethinylestradiol concentration below 1 ng/L reduces egg fertilization success and demasculinizes males," *Environ Toxicol* **2005**, *20*(2):131-141. http://dx.doi.org/10.1002/tox.20087.

Parrott JL, and Wood CS. "Fathead minnow lifecycle tests for detection of endocrine-disrupting substances in effluents," *Wat Qual Res J Canada* **2002**, 2002(37):3. http://cat.inist.fr/?aModele=afficheN&cpsidt=13862150.

Parson PA. "Stress, resources, energy balances, and evolutionary change," in *Evolutionary Biol*, Hecht MK, Ed., Plenum Press; New York, 1996, 3, 39-72.

Parsons M, Furuya T, Pal S, and Kessler P. "Biogenesis and function of peroxisomes and glycosomes," *Molecular Biochem Parasitol* **2001**, *115*:19-28.

Paschke A, Brummer J, and Schuurmann G. "Silicone rod extraction of pharmaceuticals from water," *Anal Bioanal Chem* **2007**, *387*(4):1417-1421.

Pascoe D, Carroll K, Karntanut W, and Watts MM. "Toxicity of 17α-Ethinylestradiol and Bisphenol A to the Freshwater Cnidarian Hydra vulgaris," *Arch Environ Contam Toxicol* **2002**, *43*(1):56-63. http://dx.doi.org/10.1007/s00244-001-0016-3.

Pascoe D, Karntanut W, and Müller CT. "Do pharmaceuticals affect freshwater invertebrates? A study with the cnidarian Hydra vulgaris," *Chemosphere* **2003**, *51*(6):521-528.

Pascual-Reguera MI, Ayora-Canada MJ, and Castro Ruiz MS. "Determination of piroxicam by solidphase spectrophotometry in a continuous flow system," *European J Pharmaceutical Sci* **2002**, *15*(2):179-183. http://www.sciencedirect.com/science/article/B6T25-453FWSY-6/2/654b95787d60e821f0a132f317a94571.

Pasekova H, and Polasek M. "Determination of procaine, benzocaine and tetracaine by sequential injection analysis with permanganate-induced chemiluminescence detection," *Talanta* **2000**, *52*(1):67-75. http://www.sciencedirect.com/science/article/B6THP-408TTV2-9/2/db3cb1dd886a49402f6cc15cd919cd2e.

Pathak SP, Bhattacherjee JW, and Ray PK. "Seasonal Variation in Survival and Antibiotic Resistance among Various Bacterial Populations in a Tropical River," *J Gen Appl Microbiol* **1993**, *39*:47-56.

Patterson AJ, Colangeli R, Spigaglia P, and Scott KP. "Distribution of specific tetracycline and erythromycin resistance genes in environmental samples assessed by macroarray detection," *Environ Microbiol* **2007**, *9*(3):703-715.

Patterson DB, Brumley WC, Kelliher V, and Ferguson PL. "Application of U.S. EPA methods to the analysis of pharmaceuticals and personal care products in the environment: Determination of clofibric acid in sewage effluent by GC-MS," *Am Lab* **2002**, *34*(14 July):20-28. http://www.iscpubs.com/articles/al/a0207pat.pdf.

Patterson DB, Brumley WC, Kelliher V, and Ferguson PL. "Determination of Clofibric Acid in Sewage Effluent by GC/MS: Conversion to the Methyl Ester with Trimethylsilyldiazomethane," *Am Lab* **2002**, *34*:20-28.

Paul R. "Health experts look at new strategies to reduce drug waste, minimize environmental impact, and limit drug diversion," *Drug Topics* **2007**, http://drugtopics.modernmedicine.com/drugtopics/Pharmacy/Green-solutions-to-drug-disposal-blues/ArticleStandard/Article/detail/452449.

Paul T, Miller PL, and Strathmann TJ. "Visible-Light-Mediated TiO2 Photocatalysis of Fluoroquinolone Antibacterial Agents," *Environ Sci Technol* **2007**, *41*(13):4720-4727. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es070097q.

Paumen ML, Steenbergen E, Kraak MHS, Van Straalen NM, and Van Gestel CAM. "Multigeneration Exposure of the Springtail Folsomia candida to Phenanthrene: From Dose-Response Relationships to Threshold Concentrations," *Environ Sci Technol* **2008**, *In Press*.

Paustenbach D, and Galbraith D. "Biomonitoring: is body burden relevant to public health," *Reg Toxicol Pharmacol* **2006**, *44*:249-261.

Pauwels B, Deconinck S, and Verstraete W. "Electrolytic removal of 17 alpha-ethinylestradiol (EE2) in water streams," *J Chem Technol Biotechnol* **2006**, *81*(8):1338-1343.

Pauwels B, Ngwa FF, Deconinck S, and Verstraete W. "Effluent quality of a conventional activated sludge and a membrane bioreactor system treating hospital wastewater," *Environ Technol* **2006**, *27*(4):395-402.

Pawlowski S, Ternes T, Bonerz M, Kluczka T, van der Burg B, Nau H, et al. "Combined in situ and in vitro assessment of the estrogenic activity of sewage and surface water samples," *Toxicol Sci* **2003**, *75*(1):57-65.

Pawlowski S, Ternes TA, Bonerz M, Rastall AC, Erdinger L, and Braunbeck T. "Estrogenicity of solid phase-extracted water samples from two municipal sewage treatment plant effluents and river Rhine water using the yeast estrogen screen," *Toxicol in Vitro* **2004**, *18*(1):129-138. http://www.sciencedirect.com/science/article/B6TCP-49TRK1P-1/2/b8fb18548ebc0df45066eb58d21629bb.

Pawlowski S, van Aerle R, Tyler CR, and Braunbeck T. "Effects of 17 alpha-ethinylestradiol in a fathead minnow (Pimephales promelas) gonadal recrudescence assay," *Ecotoxicol Environ Safety* **2004**, *57*(3):330-345.

Paxéus N. "Organic compounds in municipal landfill leachate," *Wat Sci Technol* **2000**, *42*:323-333. http://www.iwaponline.com/wst/04207/wst042070323.htm.

Paxéus N. "Removal of selected non-steroidal anti-inflammatory drugs (NSAIDs), gemfibrozil, carbamazepine, beta-blockers, trimethoprim and triclosan in conventional wastewater treatment plants in five EU countries and their discharge to the aquatic environment," *Wat Sci Technol* **2004**, *50*(5):253-260. http://www.ncbi.nlm.nih.gov/pubmed/15497855.

PCIFAP Pew Commission on Industrial Farm Animal Production. "Putting meat on the table: Industrial farm animal production in america," 2008, 124 pp.

PDR. "Physicians' Desk Reference," Thomson Healthcare, 2008, 62nd ed., 3200 pp.

Peak N, Knapp CW, Yang RK, Hanfelt MM, Smith MS, Aga DS, et al. "Abundance of six tetracycline resistance genes in wastewater lagoons at cattle feedlots with different antibiotic use strategies," *Environ Microbiol* **2007**, *9*(1):143-151.

Pearl D, and Stecklow S. "Pushing pills: Drug firms' incentives to pharmacists in India fuel mounting abuse," Wall Street J 2001 A1.

Peck A, Kucklick J, and Schantz M. "Synthetic musk fragrances in environmental Standard Reference Materials," *Anal Bioanal Chem* **2007**, *387*(7):2381-2388. http://dx.doi.org/10.1007/s00216-006-0671-3.

Peck AM. "Analytical methods for the determination of persistent ingredients of personal care products in environmental matrices," *Anal Bioanal Chem* **2006**, *386*(4):907-939.

Peck AM, and Hornbuckle KC. "Synthetic musk fragrances in Lake Michigan," *Environ Sci Technol* **2004**, *38*(2):367-372.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =14750709.

Peck AM, and Hornbuckle KC. "Environmental sources, occurrence, and effects of synthetic musk fragrances," *J Environ Monit* **2006**, *8*(9):874-879.

Peck AM, and Hornbuckle KC. "Synthetic musk fragrances in urban and rural air of Iowa and the Great Lakes," *Atmospheric Environ* **2006**, *40*(32):6101-6111. http://www.sciencedirect.com/science/article/B6VH3-4KJ0SXW-4/2/1ce16fe2c2a396b41e44defe958b6693.

Peck AM, Linebaugh EK, and Hornbuckle KC. "Synthetic musk fragrances in Lake Erie and Lake Ontario sediment cores," *Environ Sci Technol* **2006**, *40*(18):5629-5635. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17007119.

Peck J, Sweeney A, Gardiner J, Schantz S, Silva M, and Calafat AM. "Urinary concentrations of phthalate metabolites and associations with recent use of personal care products: An exposure assessment pilot study," *Epidemiology* **2006**, *17*(6,S):S397.

Peck M, Gibson RW, Kortenkamp A, and Hill EM. "Sediments are major sinks of steroidal estrogens in two United Kingdom rivers," *Environ Toxicol Chem* **2004**, *23*(4):945-952.

Pedersen JA, Soliman M, and Suffet IH. "Human Pharmaceuticals, Hormones, and Personal Care Product Ingredients in Runoff from Agricultural Fields Irrigated with Treated Wastewater," *J Agric Food Chem* **2005**, *53*(5):1625-1632.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jf049228m.

Pedersen JA, Yeager MA, and Suffet IH. "Characterization and mass load estimates of organic, compounds in agricultural irrigation runoff," *Wat Sci Technol* **2002**, *45*(9):103-110. http://lequia.udg.es/lequianet/WatSciTech/04509/0103/045090103.pdf.

Pedersen JA, Yeager MA, and Suffet IH. "Xenobiotic organic compounds in runoff from fields irrigated with treated wastewater," *J Agric Food Chem* **2003**, *51*(5):1360-1372.

Pedrouzo M, Borrull F, Maria Marcé R, and Pocurull E. "Simultaneous determination of macrolides, sulfonamides, and other pharmaceuticals in water samples by solid-phase extraction and LC-(ESI) MS," *J Sep Sci* **2008**, *31*(12):2182-2188. http://dx.doi.org/10.1002/jssc.200700571.

Pedrouzo M, Reverté S, Borrull F, Pocurull E, and Marcé RM. "Pharmaceutical determination in surface and wastewaters using high-performance liquid chromatography-(electrospray)-mass spectrometry," *J Sep Sci* **2007**, *30*(3):297-303. http://dx.doi.org/10.1002/jssc.200600269.

Peele ER, Singleton FL, Deming JW, Cavari B, and Colwell RR. "Effects of Pharmaceutical Wastes on Microbial Populations in Surface Waters at the Puerto Rico Dump Site in the Atlantic Ocean," *Appl Environ Microbiol* **1981**, *41*(4):873-879. http://www.pubmedcentral.nih.gov/picrender.fcgi?artid=243826&blobtype=pdf.

Peeler KA, Opsahl SP, and Chanton JP. "Tracking anthropogenic inputs using caffeine, indicator bacteria, and nutrients in rural freshwater and urban marine systems," *Environ Sci Technol* **2006**, *40*(24):7616-7622. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i24/abs/es061213c.html.

Pehlivanoglu-Mantas E, and Sedlak DL. "The fate of wastewater-derived NDMA precursors in the aquatic environment," *Wat Res* **2006**, *40*(6):1287-1293. http://www.sciencedirect.com/science/article/B6V73-4JCBN4P-3/2/ff7bbc8cfd641b167db088a4047be277.

Pei R, Kim S-C, Carlson KH, and Pruden A. "Effect of River Landscape on the sediment concentrations of antibiotics and corresponding antibiotic resistance genes (ARG)," *Wat Res* **2006**, *40*(12):2427-2435. http://www.sciencedirect.com/science/article/B6V73-4K48M31-1/2/c3f63229730be56d2bdb5dd030c056c4.

Pei RT, Cha J, Carlson KH, and Pruden A. "Response of antibiotic resistance genes (ARG) to biological treatment in dairy lagoon water," *Environ Sci Technol* **2007**, *41*(14):5108-5113. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i14/abs/es070051x.html.

Pekas SS, and Subasic D. "Pharmaceutical Waste Disposal in Croatia," Defence Technical Information Center DTIC, Springfield, VA, 2001. http://stinet.dtic.mil/oai/oai?&verb=getRecord&metadataPrefix=html&identifier=ADP013438.

Pellaumail K. "Reaching retailers," Chimica OGGI-Chem 2004, 22(9):48-51.

Pelley J. "Estrogen knocks out fish in whole-lake experiment," *Environ Sci Technol* **2003**, *17*:313A-314A. http://pubs.acs.org/subscribe/journals/esthag-w/2003/aug/science/jp_lake.html.

Pena A, Chmielova D, Lino CM, and Solich P. "Determination of fluoroquinolone antibiotics in surface waters from Mondego River by high performance liquid chromatography using a monolithic column," *J Separation Sci* **2007**, *30*(17):2924-2928. http://dx.doi.org/10.1002/jssc.200700363.

Peng T, Li S, Chu XG, Cai YX, and Li CJ. "Simultaneous determination of residues of chloramphenicol, thiamphenicol and florfenicol in shrimp by high performance liquid chromatography-tandem mass spectrometry," *Chinese J Anal Chem* **2005**, *33*(4):463-466.

Peng X, Tan J, Tang C, Yu Y, and Wang Z. "Multiresidue determination of fluoroquinolone, sulfonamide, trimethoprim, and chloramphenicol antibiotics in urban waters in China," *Environ Toxicol Chem* **2008**, *27*(1):73-79.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =18092850.

Peng X, Wang Z, Kuang W, Tan J, and Li K. "A preliminary study on the occurrence and behavior of sulfonamides, ofloxacin and chloramphenicol antimicrobials in wastewaters of two sewage treatment plants in Guangzhou, China," *Sci Total Environ* **2006**, *371*(1-3):314-322. http://www.sciencedirect.com/science/article/B6V78-4KKNN42-5/2/28e7ad002c61640879215ad1bbb9449f.

Peng X, Wang Z, Yang C, Chen F, and Mai B. "Simultaneous determination of endocrine-disrupting phenols and steroid estrogens in sediment by gas chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1116*(1-2):51-56. http://www.sciencedirect.com/science/article/B6TG8-4JKRTRP-9/2/d00cfec12c0b63368404d50b81bf9cea.

Peng X, Yu Y, Tang C, Tan J, Huang Q, and Wang Z. "Occurrence of steroid estrogens, endocrinedisrupting phenols, and acid pharmaceutical residues in urban riverine water of the Pearl River Delta, South China," *Sci Total Environ* **2008**, *397*(1-3):158-166. http://www.sciencedirect.com/science/article/B6V78-4S8TW1T-5/1/b45daba6afc7482c7b4b92650e931a50.

Penteado JCP, Seoud OAE, and Carvalho LRF. "Linear alkylbenzene sulfonates: Chemistry, environmental impact and analysis," *Quimica Nova* **2006**, *29*(5):1038-1046.

Pepin J-M. "Impacts ecotoxicologiques de certains medicaments dans l'environnement," Universite de Sherbrooke, Centre Universitaire de Formation en Environnement, Sherbrooke, Quebec, 2006. pp. http://www.usherbrooke.ca/environnement/publications/ouvrages/essais_memoires/JMPepin.pdf.

Pereira C, Mapuskar K, and Rao CV. "Chronic toxicity of diethyl phthalate--A three generation lactational and gestational exposure study on male Wistar rats," *Environ Toxicol Pharmacol* **2007**, *23*(3):319-327. http://www.sciencedirect.com/science/article/B6T6D-4MS9RFJ-1/2/67b68f3dea5de3db909157d9010bd1bc.

Pereira VJ, Linden KG, and Weinberg HS. "Evaluation of UV irradiation for photolytic and oxidative degradation of pharmaceutical compounds in water," *Wat Res* **2007**, *41*(19):4413-4423. http://www.sciencedirect.com/science/article/B6V73-4NX2NFY-1/1/788878d0ee91236de177a4e77d3a04d9.

Pereira VJ, Weinberg HS, Linden KG, and Singer PC. "UV Degradation Kinetics and Modeling of Pharmaceutical Compounds in Laboratory Grade and Surface Water via Direct and Indirect Photolysis at 254 nm," *Environ Sci Technol* **2007**, *41*(5):1682-1688. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061491b.

Pereira VRPJ. "Analytical methods validation and bench scale UV treatment of pharmaceutical compounds and contrast media in water," Doctoral Dissertation, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, 2006. 5018 pp.

Perez S, and Barcelo D. "Fate and occurrence of X-ray contrast media in the environmen," *Anal Bioanal Chem* **2007**, *387*(4):1235-1246.

Perez S, and Barcelo D. "Application of advanced MS techniques to analysis and identification of human and microbial metabolites of pharmaceuticals in the aquatic environment," *TrAC Trends in*

Analytical Chemistry **2007**, 26(6):494-514. http://www.sciencedirect.com/science/article/B6V5H-4NRT35T-1/2/fb452b7359c05c53744027d13a513635.

Pérez S, and Barceló D. "Fate and occurrence of X-ray contrast media in the environment," *Anal Bioanal Chem* **2007**, *387*(4):1235-1246. http://dx.doi.org/10.1007/s00216-006-0953-9.

Perez S, Eichhorn P, and Aga DS. "Evaluating the biodegradability of sulfamethazine, sulfamethoxazole, sulfathiazole, and trimethoprim at different stages of sewage treatment," *Environ Toxicol Chem* **2005**, *24*(6):1361-1367. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053103883.

Perez S, Eichhorn P, and Barcelo D. "Structural Characterization of Photodegradation Products of Enalapril and Its Metabolite Enalaprilat Obtained under Simulated Environmental Conditions by Hybrid Quadrupole-Linear Ion Trap-MS and Quadrupole-Time-of-Flight-MS," *Anal Chem* **2007**, *79*(21):8293-8300. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac070891u.

Perez S, Eichhorn P, Celiz MD, and Aga DS. "Structural characterization of metabolites of the X-ray contrast agent iopromide in activated sludge using ion trap mass spectrometry," *Anal Chem* **2006**, 78(6):1866-1874.

Perez-Estrada LA, Aguera A, Hernando MD, Malato S, and Fernandez-Alba AR. "Photodegradation of malachite green under natural sunlight irradiation: Kinetic and toxicity of the transformation products," *Chemosphere* **2008**, *70*(11):2068-2075. http://www.sciencedirect.com/science/article/B6V74-4R05V3W-4/2/46647ae3f7c1121b573cc1a6031ca831.

Perez-Estrada LA, Malato S, Gernjak W, Aguera A, Thurman EM, Ferrer I, et al. "Photo-Fenton Degradation of Diclofenac: Identification of Main Intermediates and Degradation Pathway," *Environ Sci Technol* **2005**, *39*(21):8300-8306.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es050794n.

Perez-Estrada LA, Maldonado MI, Gernjak W, Aguera A, Fernandez-Alba AR, Ballesteros MM, et al. "Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale," *Catalysis Today* **2005**, *101*(3-4):219-226. http://www.sciencedirect.com/science/article/B6TFG-4FRKVJH-3/2/237869d66ee4fb5dfb4a3824ac0758bb.

Perreault HAN, Semsar K, and Godwin J. "Fluoxetine treatment decreases territorial aggression in a coral reef fish," *Physiol Behavior* **2003**, *79*(4-5):719-724. http://www.sciencedirect.com/science/article/B6T0P-49D1W27-C/1/40223bcb08db27c916957104e7ca72b7.

Perret D, Gentili A, Marchese S, Greco A, and Curini R. "Sulphonamide residues in Italian surface and drinking waters: A small scale reconnaissance," *Chromatographia* **2006**, *63*(5-6):225-232.

Peru KM, Kuchta SL, Headley JV, and Cessna AJ. "Development of a hydrophilic interaction chromatography-mass spectrometry assay for spectinomycin and lincomycin in liquid hog manure supernatant and run-off from cropland," *J Chromatogr A* **2006**, *1107*(1-2):152-158. http://www.sciencedirect.com/science/article/B6TG8-4J2KXVK-5/2/facf1e104aedc7a1215611e9398038be. Péry ARR, Gust M, Vollat B, Mons R, Ramil M, Fink G, et al. "Fluoxetine effects assessment on the life cycle of aquatic invertebrates," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T29WDM-4/1/78bc5d6c0a39a8c7dc7a5716348f81b2.

Peschka M, Eubeler JP, and Knepper TP. "Occurrence and Fate of Barbiturates in the Aquatic Environment," *Environ Sci Technol* **2006**, *40*(23):7200-7206. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es052567r.

Peter AP. "Hormesis: an adaptive expectation with emphasis on ionizing radiation," *J Appl Toxicol* **2000**, *20*(2):103-112. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<103::AID-JAT639>3.0.CO;2-O.

Peters R, Beeltje H, and van Delft R. "Xeno-estrogenic compounds in precipitation," *J Environ Monit* **2008**, *10*(6):760-769. http://www.rsc.org/publishing/journals/EM/article.asp?doi=b805983g.

Peters REM, Courtenay SC, Cagampan S, Hewitt ML, and MacLatchy DL. "Effects on reproductive potential and endocrine status in the mumnichog (Fundulus heteroclitus) after exposure to 17[alpha]-ethynylestradiol in a short-term reproductive bioassay," *Aqua Toxicol* **2007**, *85*(2):154-166. http://www.sciencedirect.com/science/article/B6T4G-4PJV1CH-1/1/d90b2052c92b1765717d39425ef3fefa.

Peterson AM. "Managing pharmacy practice: Principles, strategies, and systems," CRC Press, 2004, 536 pp. http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=1446.

Peterson EW, Wicks CM, and Kelley CA. "Persistence of 17 beta-estradiol in water and sediment-pore water from cave streams in central Missouri," *Environ Eng Geosci* **2005**, *11*(3):221-228.

Petit H. "Cosmetics in our aquatic environment," Biofutur 2005, 259:41-43.

Petit H. "The contamination of waters by medicines: a problematic complex," *Biofutur* **2005**, *259*:44-46.

Petit H. "Risques sanitaires et écologiques des résidus de médicaments dans les eaux : de la science à la décision," *Environment, Risques & Sante* **2006**, *5*(4) http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Petkewich R. "Big pharma chases dogs and cats," Chem Eng News 2007, 85(26):31-34.

Petrasek AC, Kugelman IJ, Austern BM, Pressley TA, and Winslow LA. "Fate of Toxic Organic Compounds in Wastewater Treatment Plants " *J Wat Pollut Control Fed* **1983**, *55*(10):1286-1296. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8402598&q=auth or%3A%22Petrasek%22+intitle%3A%22Fate+of+Toxic+Organic+Compounds+in+Wastewater+Treat ment+...%22+&uid=792698393&setcookie=yes.

Petrisor IG. "Emerging contaminants - The growing problem," Environ Forensics 2004, 5:183-184.

Petrovic M, and Barcelo D. "Liquid chromatography - mass spectrometry in the analysis of emerging environmental contaminants," *Anal Bioanal Chem* **2006**, *385*(3):422-424.

Petrovic M, and Barcelo D. "LC-MS for identifying photodegradation products of pharamaceuticals in the environment," *TrAC Trends in Anal Chem* **2007**, *26*(6):486-493.

Petrovic M, and Barcelo D, Eds., "Analysis, Fate, and Removal of Pharmaceuticals in the Water Cycle," Elsevier Science, Amsterdam, The Netherlands, 2007, 600 pp.

Petrovic M, Eljarrat E, Lopez de Alda MJ, and Barcelo D. "Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples," *J Chromatogr A* **2002**, 974(1-2):23-51. http://www.sciencedirect.com/science/article/B6TG8-46V4NG1-1/2/d62cd77f56a5c4fead2ccee0db8b3a73.

Petrovic M, Eljarrat E, Lopez de Alda MJ, and Barcelo D. "Endocrine disrupting compounds and other emerging contaminants in the environment: A survey on new monitoring strategies and occurrence data," in *Anal Bioanal Chem*, Springer; Berlin/Heidelberg, 2004, 549-562.

Petrovic M, Gonzalez S, and Barcelo D. "Analysis and removal of emerging contaminants in wastewater and drinking water," *TrAC Trends Anal Chem* **2003**, *22*(10):685-696. http://www.sciencedirect.com/science/article/B6V5H-4B4P26W-1H/2/93c40c1323e47723cb3790856b231507.

Petrovic M, Gros M, and Barcelo D. "Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid chromatography-quadrupole-time-of-flight mass spectrometry," *J Chromatogr A* **2006**, *1124*(1-2):68-81. http://www.sciencedirect.com/science/article/B6TG8-4K48NBP-6/2/0a9f045888cfa2e71359f14470312c7e.

Petrović M, Gros M, and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants -Multi-residue analysis of pharmaceuticals using LC-tandem MS and LC-hybrid MS," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 2.4, 157-183. http://www.elsevier.com/wps/find/bookdescription.cws home/712147/description#description.

Petrovic M, Hernando MD, Diaz-Cruz MS, and Barcelo D. "Liquid chromatography-tandem mass spectrometry for the analysis of pharmaceutical residues in environmental samples: a review," *J Chromatogr A* 2005, *1067*(1-2):1-14. http://www.sciencedirect.com/science/article/B6TG8-4F65K5G-2/2/07f7a938e682fb236fba42b26b3f4065.

Petrovic M, Tavazzi S, and Barcelo D. "Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic-mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment," *J Chromatogr A* **2002**, *971*(1-2):37-45. http://www.sciencedirect.com/science/article/B6TG8-46HNR8K-F/2/5d5934ae1bc600e3cbebb4eed571615c.

Pettersson I, Arukwe A, Lundstedt-Enkel K, Mortensen AS, and Berg C. "Persistent sex-reversal and oviducal agenesis in adult Xenopus (Silurana) tropicalis frogs following larval exposure to the environmental pollutant ethynylestradiol," *Aqua Toxicol* **2006**, *79*(4):356-365. http://www.sciencedirect.com/science/article/B6T4G-4KDBFR5-1/2/5c852b1c338f192b82b80c22c8bbf8ec. Pettersson I, and Berg C. "Environmentally relevant concentrations of ethynylestradiol cause femalebiased sex ratios in Xenopus tropicalis and Rana temporaria," *Environ Toxicol Chem* **2007**, *26*(5):1005-1009.

Pettersson M, Adolfsson-Erici M, Parkkonen J, Forlin L, and Asplund L. "Fish bile used to detect estrogenic substances in treated sewage water," *Sci Total Environ* **2006**, *366*(1):174-186. http://www.sciencedirect.com/science/article/B6V78-4H0S18N-2/2/3313e03f986bd536a527750f1468d229.

Petty JD, Huckins JN, Alvarez DA, Brumbaugh WG, Cranor WL, Gale RW, et al. "A holistic passive integrative sampling approach for assessing the presence and potential impacts of waterborne environmental contaminants," *Chemosphere* **2004**, *54*(6):695-705. http://www.sciencedirect.com/science/article/B6V74-49KH89W-1/2/8cf47c8374cf4d790e36248a50ef50bf.

Pfeifer T, Tuerk J, Bester K, and Spiteller M. "Determination of selected sulfonamide antibiotics and trimethoprim in manure by electrospray and atmospheric pressure chemical ionization tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2002**, *16*(7):663-669.

Pfeifer T, Tuerk J, and Fuchs R. "Structural Characterization of Sulfadiazine Metabolites Using H/D Exchange Combined with Various MS/MS Experiments," *J Am Soc Mass Spectrom* **2005**, *16*(10):1687-1694. http://www.sciencedirect.com/science/article/B6TH2-4GVGTM3-4/2/356c7c0c816156078bc9e0cf48536ba6.

PGRN "PharmGKB: The Pharmacogenetics and Pharmacogenomics Knowledge Base." Pharmacogenetics Research Network, Stanford University 2008. http://www.pharmgkb.org/.

PH:ARM. "Disposal of medications from residential consumers - Issues, barriers, and opportunities," Washington State, November, 2007, 35 pp. http://www.govlink.org/hazwaste/publications/Unwanted%20Medications%20Primer12-14-07.pdf.

PH:ARM. "Unwanted Medicine Return Program - Poisoning & abuse risk," Washington State, 2008, 1 pp. http://www.medicinereturn.com/poison-abuse-risk.

Pharmaceuticals.Org Inc. "Business Introduction," 2008, 15 pp. http://goliath.ecnext.com/coms2/product-compint-0000655889-page.html.

Pharmacist's Letter/Prescriber's Letter. "Proper disposal of expired or unwanted drugs," *Pharmacist's Letter/Prescriber's Letter* **2007**, *23*(4):230401. http://www.mainebenzo.org/documents/pharmacistslettervol23.pdf and www.pharmacistsletter.com.

Pholchan P, Jones M, Donnelly T, and Sallis PJ. "Fate of Estrogens during the Biological Treatment of Synthetic Wastewater in a Nitrite-Accumulating Sequencing Batch Reactor," *Environ Sci Technol* **2008**, *42*(16):6141-6147. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es800891u.

PhRMA. "Enhancement of the PhRMA Code on Interactions with Healthcare Professionals," **2008**, http://www.phrma.org/news_room/press_releases/phrma_code_reinforces_commitment_to_responsible_interactions_with_healthcare_professionals/. PhRMA. "Code on interactions with healthcare professionals," **2008**:36. http://www.phrma.org/files/PhRMA%20Marketing%20Code%202008.pdf.

Picard-Aitken M, Fournier H, Pariseau R, Marcogliese DJ, and Cyr DG. "Thyroid disruption in walleye (Sander vitreus) exposed to environmental contaminants: Cloning and use of iodothyronine deiodinases as molecular biomarkers," *Aqua Toxicol* **2007**, *83*(3):200-211. http://www.sciencedirect.com/science/article/B6T4G-4NJG3WS-2/1/afe179f270c8f5983aaf4ae958112db2.

Piccoli A, Fiori J, Andrisano V, and Orioli M. "Determination of triclosan in personal health care products by liquid chromatography (HPLC)," *Il Farmaco* **2002**, *57*(5):369-372. http://www.sciencedirect.com/science/article/B6VJ8-45C07Y2-3/2/73f4065eee194147fa9db251876c57c9.

Pickrell J. "Killer Cocktails: drug mixes threaten aquatic ecosystems," Sci News 2002, 162(7):101.

Pico Y, and Andreu V. "Fluoroquinolones in soil - risks and challenges," *Anal Bioanal Chem* **2007**, *387*(4):1287-1299.

Pierini E, Famiglini G, Mangani F, and Cappiello A. "Fate of enrofloxacin in swine sewage," *J Agric Food Chem* **2004**, *52*(11):3473-3477.

Pietrogrande MC, and Basaglia G. "GC-MS analytical methods for the determination of personal-care products in water matrices," *TrAC Trends in Anal Chem* **2007**, *26*(11):1086-1094. http://www.sciencedirect.com/science/article/B6V5H-4PTW4GG-1/2/a420657de374742fa1c38ed383b36439.

Pilgeram L. "Atherogenesis: Historical Perspective, Biochemical Mechanism, and Current Status," *Cardiovascular Engineering: Internat J* **2002**, *2*(3):111-128. http://www.ingentaconnect.com/content/klu/care/2002/00000002/0000003/00460112.

Pillon A, Boussioux A-M, Escande A, Aït-Aïssa S, Gomez E, Fenet H, et al. "Binding of estrogenic compounds to recombinant estrogen receptor- α : application to environmental analysis," *Environ Health Perspect* **2005**, *113*(3):278-284.

Pillon A, Escande A, Lemaire G, Boussioux A-M, Duchesne M-J, Nicolas J-C, et al. "Detection of nuclear receptor-binding pharmaceutical compounds in environmental samples," *Environment, Risques & Sante* **2006**, *5*(4):271-274. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/FD/resume.md?type=text.html.

Pils JRV, and Laird DA. "Sorption of Tetracycline and Chlortetracycline on K- and Ca-Saturated Soil Clays, Humic Substances, and Clay-Humic Complexes," *Environ Sci Technol* **2007**, *41*(6):1928-1933. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es062316y.

Pines E, Hospitals for a Healthy Environment, and Smith C. "Managing Pharmaceutical Waste: A 10-Step Blueprint for Health Care Facilities In the United States," Hospitals for a Healthy Environment, April 15, 2006, 108 pp. http://www.h2e-online.org/docs/h2epharmablueprint41506.pdf.

Pinkston KE, and Sedlak DL. "Transformation of aromatic ether-and amine-containing pharmaceuticals during chlorine disinfection," *Environ Sci Technol* **2004**, *38*(14):4019-4025. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i14/html/es0353681.html.

Pinto B, Garritano S, and Reali D. "Occurrence of estrogen-like substances in the marine environment of the Northern Mediterranean Sea," *Mar Pollut Bull* **2005**, *50*(12):1681-1685. http://www.sciencedirect.com/science/article/B6V6N-4HCN3WN-1/2/2ecc513752212e2581ad795f606793f8.

Pinto CN, Dantas AP, De Moura KCG, Emery FS, Polequevitch PF, Pinto MD, et al. "Chemical reactivity studies with naphthoquinones from tabebuia with anti-trypanosomal efficacy," *Arzneimittel-Forschung-Drug Research* **2000**, *50*:1120-1128.

Pipino S, Api AM, Pons N, Smith RL, and De Matteis F. "Chromogenic derivatives of AHTN (6acetyl-1,1,2,4,4,7-hexamethyltetralin) react with amino acids and protein in vitro. Spectral characteristics of the colour products," *Food Chem Toxicol* **2004**, *42*(5):785-790. http://www.sciencedirect.com/science/article/B6T6P-4BVPPFR-4/2/0cca33e05abab2faff375bd042679eb5.

Piram A, Salvador A, Gauvrit J-Y, Lanteri P, and Faure R. "Development and optimisation of a single extraction procedure for the LC/MS/MS analysis of two pharmaceutical classes residues in sewage treatment plant," *Talanta* **2008**, *74*(5):1463-1475. http://www.sciencedirect.com/science/article/B6THP-4PVPVJR-1/2/547bdaa0127d6f0445ba49408f014e23.

Piram A, Salvador A, Gauvrit J-Y, Lanteri P, and Faure R. "Development and optimisation of a single extraction procedure for the LC/MS/MS analysis of two pharmaceutical classes residues in sewage treatment plant," *Talanta* **2008**, *74*(5):1463-1475. http://www.sciencedirect.com/science/article/B6THP-4PVPVJR-1/1/5cc04cb3b30b8add632fc47e0ae8f2a6.

Pitarch E, Hernandez F, ten Hove J, Meiring H, Niesing W, Dijkman E, et al. "Potential of capillarycolumn-switching liquid chromatography-tandem mass spectrometry for the quantitative trace analysis of small molecules: Application to the on-line screening of drugs in water," *J Chromatogr* **2004**, *1031*(1-2):1-9. http://www.sciencedirect.com/science/article/B6TG8-49PYP30-6/2/f746ecacd7f76e36ce780e1df5b45c71.

Pitzer G, "Pharmaceuticals & Personal Care Products: An Rx for Water Quality Problems?," *Western Water Magazine - Water Education Foundation* 2004, 4-13. http://epa.gov/nerlesd1/chemistry/ppcp/images/WEF-PPCPs.pdf.

Pivcevic B, and Zaja R. "Pesticides and their binary combinations as P-glycoprotein inhibitors in NIH 3T3/MDR1 cells," *Environ Toxicol Pharmacol* **2006**, *22*(3):268-276. http://www.sciencedirect.com/science/article/B6T6D-4JVRFYF-1/2/7d39ffbaaf513deaae3177e4b8ec2344.

Plagellat C, Kupper T, de Alencastro LF, Grandjean D, and Tarradellas J. "Biocides in sewage sludge: Quantitative determination in some Swiss wastewater treatment plants," *Bull Environ Contam Toxicol* **2004**, *73*(5):794-801.

Plagellat C, Kupper T, Furrer R, de Alencastro LF, Grandjean D, and Tarradellas J. "Concentrations and specific loads of UV filters in sewage sludge originating from a monitoring network in Switzerland," *Chemosphere* **2006**, *62*(6):915-925. http://www.sciencedirect.com/science/article/B6V74-4GJKTNR-5/2/4d02f486116955ba2f516f062fd6ba9c.

Poiger T, Buser HR, and Muller MD. "Photodegradation of the pharmaceutical drug diclofenac in a lake: Pathway, field measurements, and mathematical modeling," *Environ Toxicol Chem* **2001**, *20*(2):256-263.

Poiger T, Buser HR, Muller MD, Balmer ME, and Buerge IJ. "Occurrence and fate of organic micropollutants in the environment: Regional mass balances and source apportioning in surface waters based on laboratory incubation studies in soil and water, monitoring, and computer modeling," *CHIMIA* **2003**, *57*:492-498.

Poiger T, Buser H-R, Balmer ME, Bergqvist P-A, and Muller MD. "Occurrence of UV filter compounds from sunscreens in surface waters: regional mass balance in two Swiss lakes," *Chemosphere* **2004**, *55*(7):951-963. http://www.sciencedirect.com/science/article/B6V74-4BYBY8P-3/2/24fd69dd3f6b5dbda987ca020a53e1fd.

Pojana G, Bonfa A, Busetti F, Collarin A, and Marcomini A. "Determination of natural and synthetic estrogenic compounds in coastal lagoon waters by HPLC-electrospray-mass spectrometry," *Internat J Environ Anal Chem* **2004**, *84*(10):717-727.

Pojana G, Bonfa A, Busetti F, Collarin A, and Marcomini A. "Estrogenic potential of the Venice, Italy, lagoon waters," *Environ Toxicol Chem* **2004**, *23*(8):1874-1880.

Pojana G, Gomiero A, Jonkers N, and Marcomini A. "Natural and synthetic endocrine disrupting compounds (EDCs) in water, sediment and biota of a coastal lagoon," *Environ Internat* **2007**, *33*(7):929-936. http://www.sciencedirect.com/science/article/B6V7X-4NX8RF8-1/1/bd555a1b9710c0764e1711839f448242.

Pollack A. "Ventures aim to put farms in pharmaceutical vanguard," The NY Times, 14 May 2000 National Science/Health http://oak.cats.ohiou.edu/~brownk4/NYTimes_Biopharm.pdf.

Pollard S. "Risk management for water and wastewater utilities," IWA Publishing, 2008, 175 pp.

Pollino C, Georgiades E, and Holdway D. "Use of the Australian crimson-spotted rainbowfish (Melanotaenia fluviatilis) as a model test species for investigating the effects of endocrine disruptors," *Environ Toxicol Chem* **2007**, *26*(10):xxx. http://dx.doi.org/10.1897%2F06-603.

Polo M, Garcia-Jares C, Llompart M, and Cela R. "Optimization of a sensitive method for the determination of nitro musk fragrances in waters by solid-phase microextraction and gas chromatography with micro electron capture detection using factorial experimental design," *Anal Bioanal Chem* **2007**, *388*(8):1789-1798. http://www.springerlink.com/content/5952615467765382/.

Polo M, Llompart M, Garcia-Jares C, and Cela R. "Multivariate optimization of a solid-phase microextraction method for the analysis of phthalate esters in environmental waters," *J Chromatogr A* **2005**, *1072*:63-72.

Polovtsev IS, and Scientific Utilization Inc. Decatur AL. "Application of the three phase AC plasma generator for drugdestruction," *Plasma Science, 1996 IEEE Conference Record - Abstracts, 1996 IEEE International Conference on* **1996**:149-. http://ieeexplore.ieee.org/xpl/freeabs all.jsp?tp=&arnumber=550666&isnumber=11161.

Polubesova T, Zadaka D, Groisman L, and Nir S. "Water remediation by micelle-clay system: Case study for tetracycline and sulfonamide antibiotics," *Wat Res* **2006**, *40*(12):2369-2374. http://www.sciencedirect.com/science/article/B6V73-4K4WGY5-1/2/e8bd51ac0bda227fc99386c0c0a3bfd3.

Pomati F, Castiglioni S, Zuccato E, Fanelli R, Vigetti D, Rossetti C, et al. "Effects of a Complex Mixture of Therapeutic Drugs at Environmental Levels on Human Embryonic Cells," *Environ Sci Technol* **2006**, *40*(7):2442-2447. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es051715a.

Pomati F, Cotsapas CJ, Castiglioni S, Zuccato E, and Calamari D. "Gene expression profiles in zebrafish (Danio rerio) liver cells exposed to a mixture of pharmaceuticals at environmentally relevant concentrations," *Chemosphere* **2007**, *70*(1):65-73. http://www.sciencedirect.com/science/article/B6V74-4PJ6BH4-4/2/5240f5d396f616fb5e43a702559d6609.

Pomati F, Netting AG, Calamari D, and Neilan BA. "Effects of erythromycin, tetracycline and ibuprofen on the growth of Synechocystis sp. and Lemna minor," *Aqua Toxicol* **2004**, *67*(4):387-396. http://www.sciencedirect.com/science/article/B6T4G-4C2FGB2-2/2/b3bc8189737df8967c6b00ae15b7381d.

Pomati F, Orlandi C, Clerici M, Luciani F, and Zuccato E. "Effects and Interactions in an Environmentally Relevant Mixture of Pharmaceuticals," *Toxicol Sci* **2008**, *102*(1):129-137. http://toxsci.oxfordjournals.org/cgi/content/abstract/102/1/129.

Pomerantz JM. "Recycling expensive medication: why not?," *MedGenMed* **2004**, *6*(2):4. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15266231.

Pontius F. "Legislation/Regulation -- Tap Water Pharmaceuticals: Back to the Future," *Journal AWWA* **2008**, *100*(6):16-28. http://www.awwa.org/AWWA/WaterLibrary/showabstract.aspx?an=JAW_0067801.

Poopa W, Weschayanwiwat P, and Sabatini DA. "Adsorption Behavior of Amphiphile Molecules onto Various Adsorbents and Its relation to Interfacial Characteristics "*Thai Environ Eng J*?, 20(3):1-12. http://www.eeat.or.th/teej/v20no3/p.001-012_P05-043.pdf.

Porte C, Biosca X, Sole M, and Albaiges J. "The integrated use of chemical analysis, cytochrome P450 and stress proteins in mussels to assess pollution along the Galician coast (NW Spain)," *Environ Pollut*

2001, *112*(2):261-268. http://www.sciencedirect.com/science/article/B6VB5-41TMTB3-N/2/7ec664dd1a03b4076aa5fef243a2c3f0.

Poser S. "Prescription drug samples and the 'learned intermediary': The case for liability without preemption," University of Nebraska, 2007, 74 pp. http://works.bepress.com/cgi/viewcontent.cgi?article=1000&context=susan poser.

Postigo C, LopezdeAlda MJ, and Barcelo D. "Fully Automated Determination in the Low Nanogram per Liter Level of Different Classes of Drugs of Abuse in Sewage Water by On-Line Solid-Phase Extraction-Liquid Chromatography-Electrospray-Tandem Mass Spectrometry," *Anal Chem* **2008**, *Received for review October 5, 2007.Accepted January 22, 2008* http://pubs.acs.org/cgi-bin/abstract.cgi/ancham/2008/80/i09/abs/ac702060j.html.

Potera C. "Drugged drinking water," *Environ Health Perspect* **2000**, *108*(10):A446. http://www.ncbi.nlm.nih.gov/pubmed/11049826?dopt=Citation.

Pouliquen H, Delepee R, Larhantec-Verdier M, Morvan M-L, and Le Bris H. "Comparative hydrolysis and photolysis of four antibacterial agents (oxytetracycline oxolinic acid, flumequine and florfenicol) in deionised water, freshwater and seawater under abiotic conditions," *Aquaculture* **2007**, *262*(1):23-28. http://www.sciencedirect.com/science/article/B6T4D-4M57J20-2/2/cf6b04efe334f63f4cc487d34045d570.

Pouliquen H, and Le Bris H. "Sorption of oxolinic acid and oxytetracycline to marine sediments," *Chemosphere* **1996**, *33*(5):801-815. http://www.ingentaconnect.com/content/els/00456535/1996/00000033/00000005/art00236 http://dx.doi.org/10.1016/0045-6535(96)00236-6.

Pouliquen H, Le Bris H, Thorin C, Larhantec-Verdier M, and Morvan ML. "Quantitative HPLC determination and preliminary assessment of dissolved, suspended, and settled oxolinic acid from turbot farm," *Acta Chromatogr* **2006**, *17*:173-187.

Pound P, Britten N, Morgan M, Yardley L, Pope C, Daker-White G, et al. "Resisting medicines: a synthesis of qualitative studies of medicine taking," *Soc Sci Med* **2005**, *61*(1):133-155. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15847968.

Pounds N, Maclean S, Webley M, Pascoe D, and Hutchinson T. "Acute and chronic effects of ibuprofen in the mollusc Planorbis carinatus (Gastropoda: Planorbidae)," *Ecotoxicol Environ Safety* **2008**, *70*(1):47-52. http://www.sciencedirect.com/science/article/B6WDM-4RN48CY-1/1/246699e150cf24633224281e1fce073c.

Pounds NA, Hutchinson TH, Williams TD, Whiting P, and Dinan L. "Assessment of putative endocrine disrupters in an in vivo crustacean assay and an in vitro insect assay," *Mar Environ Res* **2002**, *54*(3-5):709-713. http://www.sciencedirect.com/science/article/B6V7H-45YG5VD-2/1/e9c9ded638c09208ad29ca09ac69c097.

Pozo OJ, Guerrero C, Sancho JV, Ibanez M, Pitarch E, Hogendoorn E, et al. "Efficient approach for the reliable quantification and confirmation of antibiotics in water using on-line solid-phase extraction liquid chromatography/tandem mass spectrometry," *J Chromatogr A* **2006**, *1103*(1):83-93.

http://www.sciencedirect.com/science/article/B6TG8-4HMNG2V-3/2/34d3940fe111502c7130d11677ba6eb2.

Pozo OJ, Sancho JV, Ibanez M, Hernandez F, and Niessen WMA. "Confirmation of organic micropollutants detected in environmental samples by liquid chromatography tandem mass spectrometry: Achievements and pitfalls," *TrAC Trends in Anal Chem* **2006**, *25*(10):1030-1042.

Prado T, Pereira WC, Silva DM, Seki LM, Carvalho APDA, and Asensi MD. "Detection of extendedspectrum β-lactamase-producing Klebsiella pneumoniae in effluents and sludge of a hospital sewage treatment plant," *Lett Appl Microbiology* **2008**, *46*(1):136-141. http://www.blackwellsynergy.com/doi/abs/10.1111/j.1472-765X.2007.02275.x http://www.ncbi.nlm.nih.gov/pubmed/17983431.

Prakash O, Goswami SV, and Sehgal N. "Establishment of ELISA for murrel vitellogenin and choriogenin, as biomarkers of potential endocrine disruption," *Comp Biochem Physiol C Toxicol Pharmacol* **2007**, *146*(4):540-551.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17689149.

Pramanick P. "Effective approaches to minimize the problem of pharmaceuticals and other personal care products in the environment," Rochester Institute of Technology, Department of Civil Engineering Technology,

Environmental Management & Safety, Rochester, NY, 2007. 73 pp. https://ritdml.rit.edu/dspace/bitstream/1850/5970/1/PPramanickThesis10-2007.pdf.

Prat MD, Benito J, Compano R, Hernandez-Arteseros JA, and Granados M. "Determination of quinolones in water samples by solid-phase extraction and liquid chromatography with fluorimetric detection," *J Chromatogr A* **2004**, *1041*(1-2):27-33. http://www.sciencedirect.com/science/article/B6TG8-4CG0SBN-

http://www.sciencedirect.com/science/article/B61G8-4CG0 5/2/0b9ceab48ef7e9a8f3db4708f1f29956.

Prat MD, Ramil D, Compano R, Hernandez-Arteseros JA, and Granados M. "Determination of flumequine and oxolinic acid in sediments and soils by microwave-assisted extraction and liquid chromatography-fluorescence," *Anal Chimica Acta* **2006**, *567*(2):229-235. http://www.sciencedirect.com/science/article/B6TF4-4JJ6DND-6/2/84b0089d731751b98230a34d48c3dc49.

Press-Kristensen K, Ledin A, Schmidt JE, and Henze M. "Identifying model pollutants to investigate biodegradation of hazardous XOCs in WWTPs," *Sci Total Environ* **2007**, *373*(1):122-130. http://www.sciencedirect.com/science/article/B6V78-4MP5KKP-1/2/27cbae05944de3ce8ef083b17a46df54.

Pressley SA. "N. Carolina effort seeks to wipe out outhouses," Washington Post, April 25 1999 A http://www.pmmag.com/CDA/ArticleInformation/features/BNP_Features_Item/0,2379,4222,00.html.

Preston BL, and Snell TW. "Direct and indirect effects of sublethal toxicant exposure on population dynamics of freshwater rotifers: a modeling approach," *Aqua Toxicol* **2001**, *52*(2):87-99. http://www.sciencedirect.com/science/article/B6T4G-426XWWK-1/2/463960702b433a69390ac3f27569b4bd. Preston BL, and Snell TW. "Full life-cycle toxicity assessment using rotifer resting egg production: implications for ecological risk assessment," *Environ Pollut* **2001**, *114*:399-406.

Preuss G, Willme U, and Zullei-Seibert N. "Behaviour of some pharmaceuticals during artificial groundwater recharge - Elimination and effects on microbiology," *Acta Hydrochim Hydrobiol* **2002**, *29*(5):269-277.

Prior JAV, Santos JLM, and Lima J. "Sampling strategies exploiting multi-pumping flow systems," *Anal Bioanal Chem* **2003**, *375*:1234-1239.

Pritchard JB, and Miller DS. "Expression systems for cloned xenobiotic transporters," *Toxicol Appl Pharmacol* **2005**, *204*(3):256-262. http://www.sciencedirect.com/science/article/B6WXH-4F7B42G-3/1/0743b2f23172e66df8a4c3dea2e4fd93.

Proffitt F, and Bagla P. "Circling In on a Vulture Killer," Science 2004, 306(5694):223.

Pronk W, Palmquist H, Biebow M, and Boller M. "Nanofiltration for the separation of pharmaceuticals from nutrients in source-separated urine," *Wat Res* **2006**, *40*(7):1405-1412. http://www.sciencedirect.com/science/article/B6V73-4JG5F86-2/2/b6b0d424202fdc46b30eb2887417bbb1.

Pruden A, Pei RT, Storteboom H, and Carlson KH. "Antibiotic resistance genes as emerging contaminants: Studies in northern Colorado," *Environ Sci Technol* **2006**, *40*(23):7445-7450. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i23/abs/es0604131.html.

PSI "PSI Pharmaceuticals Project," Product Stewardship Institute http://www.productstewardship.us/displaycommon.cfm?an=1&subarticlenbr=182.

Public Works and Government Services Canada. "Canada Gazette," *Canada Gazette* **2008**, *142*(20):1500-1568.

Pugazhendhi D, Pope GS, and Darbre PD. "Oestrogenic activity of p-hydroxybenzoic acid (common metabolite of paraben esters) and methylparaben in human breast cancer cell lines," *J Appl Toxicol* **2005**, *25*(4):301-309.

Puig P, Borrull F, Aguilar C, and Calull M. "CE Analysis of Cephalosporins in Environmental Waters," *Chromatographia* **2007**, *65*(7-8):501-504.

Pukhalsky AL, and Shmarina GV. "Stimulatory and protective effects of alkylating agents applied in ultra-low concentrations," *Pharmacology* **2001**, *62*(3):129-132. http://www.ncbi.nlm.nih.gov/pubmed/11287812.

Purdom CE, Hardiman PA, Bye VVJ, Eno NC, Tyler CR, and Sumpter JP. "Estrogenic Effects of Effluents from Sewage Treatment Works," *Chem Ecol* **1994**, *8*(4):275 - 285. http://www.informaworld.com/10.1080/02757549408038554.

Putman M, van Veen HW, and Konings WN. "Molecular properties of bacterial multidrug transporters," *Microbiol Mol Biol Rev* **2000**, *64*(4):672-693.

Putschew A, and Jekel M. "Induced in-source fragmentation for the selective detection of organic bound iodine by liquid chromatography/electrospray mass spectrometry," *Rapid Commun Mass Spectrom* **2003**, *17*(20):2279-2282.

Putschew A, and Jekel M. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of iodinated X-ray contrast media," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Barcelo D, Ed., Elsevier Science, 2007, Chapter 2.7, 265-278. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Putschew A, Schittko S, and Jekel M. "Quantification of triiodinated benzene derivatives and X-ray contrast media in water samples by liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* **2001**, *930*(1-2):127-134. http://www.sciencedirect.com/science/article/B6TG8-43XGBDY-3/2/277a73c398b0a27d171b64bc755daa19.

Putschew A, Wischnack S, and Jekel M. "Occurrence of triiodinated X-ray contrast agents in the aquatic environment," *Sci Total Environ* **2000**, *255*(1-3):129-134. http://www.sciencedirect.com/science/article/B6V78-40GJDHM-C/2/0e15043ea44556c4ce47ae8af2ec6ecf.

Qiang Z, Adams C, and Surampalli R. "Determination of ozonation rate constants for lincomycin and spectinomycin," *Ozone-Sci Eng* **2004**, *26*(6):525-537.

Qiang Z, and Adams CD. "Potentiometric determination of acid dissociation constants (pKa) for human and veterinary antibiotics," *Wat Res* **2004**, *38*(12):2874-2890.

Qiang ZM, Macauley JJ, Mormile MR, Surampalli R, and Adams CD. "Treatment of antibiotics and antibiotic resistant bacteria in swine wastewater with free chlorine," *J Agric Food Chem* **2006**, *54*(21):8144-8154.

Quack B, Frund HC, Hoper H, and Hamscher G. "Assessing bioactive tetracycline in soil samples - Application of a German-Standard-Bioassay DIN 58940 part 1-3," *J Soils Sediments* **2005**, *5*(2):107-111.

Quanrud DM, Quast K, Conroy O, Karpiscak MM, Gerba CP, Lansey KE, et al. "Estrogenic activity and volume fraction of waste water origin in monitoring wells along the Santa Cruz River, Arizona," *Ground Wat Monit Remediation* **2004**, *24*(2):86-93.

Queitsch C, Sangster TA, and Lindquist S. "Hsp90 as a capacitor of phenotypic variation," *Nature* **2002**, *417*:618-624.

Quevauviller P. "A TrAC journey into water-chemical metrology in the European Union," *TrAC Trends in Anal Chem* **2007**, *26*(1):52-59. http://www.sciencedirect.com/science/article/B6V5H-4MM25R5-2/2/1bc97acf531a5a19ea50aeb3933a349c.

Quinn B, Gagne F, and Blaise C. "Oxidative metabolism activity in Hydra attenuata exposed to carbamazepine," *Fres Environ Bull* **2004**, *13*(8):783-788.

Quinn B, Gagne F, and Blaise C. "An investigation into the acute and chronic toxicity of eleven pharmaceuticals (and their solvents) found in wastewater effluent on the cnidarian, Hydra attenuata," *Sci Total Environ* **2008**, *389*(2-3):306-314.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17931692.

Quinn B, Gagné F, and Blaise C. "The effects of pharmaceuticals on the regeneration of the cnidarian, Hydra attenuata," *Sci Total Environ* **2008**, *402*(1):62-69. http://www.sciencedirect.com/science/article/B6V78-4SNXT3G-3/1/addbdbc491b16c442d75439a76c937b3.

Quinn B, Gagne F, Costello M, McKenzie C, Wilson J, and Mothersill C. "The endocrine disrupting effect of municipal effluent on the zebra mussel (Dreissena polymorpha)," *Aqua Toxicol* **2004**, *66*(3):279-292. http://www.sciencedirect.com/science/article/B6T4G-4BDY74N-1/2/21551cb1ad715e050c7e9b3fda9b245c.

Quinn JMJ, Lavoie ET, and Ottinger MA. "Reproductive toxicity of trenbolone acetate in embryonically exposed Japanese quail," *Chemosphere* **2007**, *66*(7):1191-1196. http://www.sciencedirect.com/science/article/B6V74-4KXWJNV-3/2/36a4292105e1146e4f7a6040be816a7e.

Quinn MJ, McKernan M, Lavoie ET, and Ottinger MA. "Immunotoxicity of Trenbolone Acetate in Japanese Quail," *J Toxicol Environ Health Part A* **2007**, *70*(1):88 - 93. http://www.informaworld.com/10.1080/15287390600755026.

Quintana JB, Carpinteiro J, and Rodriguez I. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of acidic drugs by gas chromatography," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Barcelo D, Ed., Elsevier Science, 2007, Chapter 2.5, 185-218. http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Quintana JB, Carpinteiro J, Rodriguez I, Lorenzo RA, Carro AM, and Cela R. "Determination of natural and synthetic estrogens in water by gas chromatography with mass spectrometric detection," *J Chromatogr A* **2004**, *1024*(1-2):177-185. http://www.sciencedirect.com/science/article/B6TG8-4B2CFR0-8/2/c8ed2a6ede57bd075f9fcabee464be43.

Quintana JB, Miro M, Estela JM, and Cerda V. "Automated on-line renewable solid-phase extractionliquid chromatography exploiting multisyringe flow injection-bead injection lab-on-valve analysis," *Anal Chem* **2006**, *78*(8):2832-2840.

Quintana JB, and Reemtsma T. "Sensitive determination of acidic drugs and triclosan in surface and wastewater by ion-pair reverse-phase liquid chromatography/tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2004**, *18*:765-774.

Quintana JB, and Reemtsma T. "Rapid and sensitive determination of ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid in water samples by ion-pair reversed-phase liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* **2007**, *1145*(1-2):110-117. http://www.sciencedirect.com/science/article/B6TG8-4MVF4XF-7/2/846f0fa6ef5f5d330005ed75aa9fba8b.

Quintana JB, Rodil R, Muniategui-Lorenzo S, Lopez-Mahia P, and Prada-Rodriguez D. "Multiresidue analysis of acidic and polar organic contaminants in water samples by stir-bar sorptive extraction-liquid desorption-gas chromatography-mass spectrometry," *J Chromatogr A* **2007**, *1174*(1-2):27-39. http://www.sciencedirect.com/science/article/B6TG8-4PD4XFC-1/2/4654e9428cdc7ee54f5747e5337f54a8.

Quintana JB, Rodil R, and Reemtsma T. "Suitability of hollow fibre liquid-phase microextraction for the determination of acidic pharmaceuticals in wastewater by liquid chromatography-electrospray tandem mass spectrometry without matrix effects," *J Chromatogr A* **2004**, *1061*(1):19-26. http://www.sciencedirect.com/science/article/B6TG8-4DTBVJG-1/2/1ad22d80ce59dd5e1e18bb056a61d743.

Quintana JB, Weiss S, and Reemtsma T. "Pathways and metabolites of microbial degradation of selected acidic pharmaceutical and their occurrence in municipal wastewater treated by a membrane bioreactor," *Wat Res* **2005**, *39*(12):2654-2664. http://www.sciencedirect.com/science/article/B6V73-4GG8VMY-3/2/1606fb978943cb83e41acf7be36d803c.

Ra JS, Kim SD, Chang NI, and An K-G. "Ecological health assessments based on whole effluent toxicity tests and the index of biological integrity in temperate streams influenced by wastewater treatment plant effluents," *Environ Toxicol Chem* **2007**, *26*(9):2010-2018. http://dx.doi.org/10.1897%2F06-542.

Raab U, Preiss U, Albrecht M, Shahin N, Parlar H, and Fromme H. "Concentrations of polybrominated diphenyl ethers, organochlorine compounds and nitro musks in mother's milk from Germany (Bavaria)," *Chemosphere* **2008**, 72(1):87-94. http://www.sciencedirect.com/science/article/B6V74-4S0HBTY-8/1/8b4ac8549a82283d140adf32aa78af56.

Rabbaa-Khabbaz L, Daoud RA, and Karam-Sarkis D. "A simple, sensitive, and rapid method for the determination of cotinine in urine by high-performance liquid chromatography with UV detection," *J Chromatogr Sci* **2006**, *44*:535-538.

Rabiet M, Togola A, Brissaud F, Seidel JL, Budzinski H, and Elbaz-Poulichet F. "Consequences of Treated Water Recycling as Regards Pharmaceuticals and Drugs in Surface and Ground Waters of a Medium-sized Mediterranean Catchment," *Environ Sci Technol* **2006**, *40*(17):5282-5288. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060528p.

Rabolle M, and Spliid NH. "Sorption and mobility of metronidazole, olaquindox, oxytetracycline and tylosin in soil," *Chemosphere* **2000**, *40*(7):715-722. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-31/2/f1ad6853557d0d9c05485a59bf58aa0a.

Rachon D, Rimoldi G, and Wuttke W. "In vitro effects of benzophenone-2 and octylmethoxycinnamate on the production of interferon-gamma and interleukin-10 by murine splenocytes," *Immunopharmacol Immunotoxicol* **2006**, *28*(3):501-510.

Radford FR, Radford D, R., and Howard JD. "Contaminated medical waste disposal system and method," United States Patent 6488675, Application No. 418895 filed on 1999-10-15, 2002. http://www.patentstorm.us/patents/6488675.html.

Radhika P, Cabeza M, Bratoeff E, and Garcia G. "5Alpha-reductase inhibition activity of steroids isolated from marine soft corals," *Steriods* **2004**, *69*(7):439-444. http://lib.bioinfo.pl/auth:Radhika,P.

Radix P, Severin G, Schramm KW, and Kettrup A. "Reproduction disturbances of Brachionus calyciflorus (rotifer) for the screening of environmental endocrine disrupters," *Chemosphere* **2002**, *47*(10):1097-1101.

http://www.ingentaconnect.com/content/els/00456535/2002/00000047/00000010/art00335 http://dx.doi.org/10.1016/S0045-6535(01)00335-6.

Radjenovic J, Petrovic M, and Barcelo D. "Analysis of pharmaceuticals in wastewater and removal using a membrane bioreactor," *Anal Bioanal Chem* **2007**, *387*(4):1365-1377.

Radjenovic J, Petrovic M, and Barcelo D. "Advanced mass spectrometric methods applied to the study of fate and removal of pharmaceuticals in wastewater treatment," *TrAC Trends in Analytical Chemistry* **2007**, *26*(11):1132-1144. http://www.sciencedirect.com/science/article/B6V5H-4PYGVMX-1/2/5412dcd317db937cf76c699ba00c822f.

Radjenovic J, Petrovic M, Ventura F, and Barceló D. "Rejection of pharmaceuticals in nanofiltration and reverse osmosis membrane drinking water treatment," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4STYTSC-8/1/0896c26f253bc4f06ab063c368c12387.

Raeburn P, "Commentary: Drug safety needs a second opinion," *Business Week* 1999, http://www.businessweek.com/datedtoc/1999/9938t.htm.

Raghupathy P, Mathiyarasu J, Joseph J, Phani KLN, and Yegnaraman V. "Hydrotrope-driven disruption of micellar encapsulants for voltammetric detection of triclosan," *J Electroanal Chem* **2005**, *584*(2):210-214. http://www.sciencedirect.com/science/article/B6TGB-4H3JHJB-1/2/e8966614a9d36acce5ab1c989c831363.

Rahman MH, Nonaka L, Tago R, and Suzuki S. "Occurrence of Two Genotypes of Tetracycline (TC) Resistance Gene tet(M) in the TC-Resistant Bacteria in Marine Sediments of Japan," *Environ Sci Technol* **2008**, *42*(14):5055-5061. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es702986y.

Rahman S, Khan R, Gupta V, and Uddin M. "Pharmacoenvironmentology – a component of pharmacovigilance," *Environ Health* **2007**, *6*(1):20. http://www.ehjournal.net/content/6/1/20.

Rahman SZ, and Khan RA. "Environmental pharmacology: a new discipline," *Indian J Pharmacol* **2006**, *38*(4):229-230. http://www.ijp-online.com/article.asp?issn=0253-7613;year=2006;volume=38;issue=4;spage=229;epage=230;aulast=Rahman.

Raich-Montiu J, Folch J, Compano R, Granados M, and Prat MD. "Analysis of trace levels of sulfonamides in surface water and soil samples by liquid chromatography-fluorescence," *Journal of Chromatography A* **2007**, *1172*(2):186-193. http://www.sciencedirect.com/science/article/B6TG8-4PW05BM-7/2/3dbeb1c9b763998686260925bc7b7902.

Raiman J, Hanninen K, Kontturi K, Murtomaki L, and Hirvonen J. "Drug adsorption in human skin: A streaming potential study," *J Pharm Sci* **2003**, 92:2366-2372.

Rajapakse N, Ong D, and Kortenkamp A. "Defining the Impact of Weakly Estrogenic Chemicals on the Action of Steroidal Estrogens," *Toxicol Sci* **2001**, *60*(2):296-304. http://toxsci.oxfordjournals.org/cgi/content/abstract/60/2/296.

Rajapakse N, Silva E, and Kortenkamp A. "Combining xenoestrogens at levels below individual noobserved-effect concentrations dramatically enhances steroid hormone action," *Environ Health Perspect* **2002**, *110*(9):917-921.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12204827.

Rajapakse N, Silva E, Scholze M, and Kortenkamp A. "Deviation from Additivity with Estrogenic Mixtures Containing 4-Nonylphenol and 4-tert-Octylphenol Detected in the E-SCREEN Assay," *Environ Sci Technol* **2004**, *38*(23):6343-6352. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es049681e.

Rakonczay Z, Duda E, Kaszaki J, Ivanyi B, Boros I, Lonovics J, et al. "The anti-inflammatory effect of methylprednisolone occurs down-stream of nuclear factor-[kappa]B DNA binding in acute pancreatitis," *European J Pharmacol* **2003**, *464*(2-3):217-227. http://www.sciencedirect.com/science/article/B6T1J-4806DJY-1/2/e05ec8c29a0107eda1fd19c2d6367d43.

Raldua D, Andre M, and Babin PJ. "Clofibrate and gemfibrozil induce an embryonic malabsorption syndrome in zebrafish," *Toxicol Appl Pharmacol* **2008**, *228*(3):301-314. http://www.sciencedirect.com/science/article/B6WXH-4R7J60Y-4/2/7ae6447e87029ada19fda3e8c1aa6dbc.

Raloff J. "Hormone mimics get harder to pigeonhole," Sci News 1997, 151:254.

Raloff J. "Drugged waters - Does it matter that pharmaceuticals are turning up in water supplies," *Sci News* **1998**, *153*:187-189.

Raloff J. "Medical waters: where ibuprofen goes - the finding of clofibric acid and diclofenac in the water of Swiss lakes, leads to the question of why ibuprofen was not being found," *Sci News* **1999**, *156*(8):126. http://findarticles.com/p/articles/mi_m1200/is_8_156/ai_55882008.

Raloff J. "Pollutant waits to smite salmon at sea," *Sci News* **1999**, *155*(19):3 pgs. http://63.240.200.111/pages/sn_arc99/5_8_99/fob3.htm.

Raloff J. "Waterways carry antibiotic resistance," *Sci News* **1999**, *155*(23):356. http://www.sciencenews.org/pages/sn_arc99/6_5_99/fob1.htm.

Raloff J. "Lemon-scented products spawn pollutants," Sci News 2000, 158(24):375.

Raloff J. "Excreted drugs: Something looks fishy," *Sci News* **2000**, *157*(25):388. http://www.sciencenews.org/articles/20000617/fob1.asp.

Raloff J. "More waters test positve for drugs," *Sci News* **2000**, *157*(14):212. http://www.sciencenews.org/articles/20000401/fob1.asp.

Raloff J. "Sometimes an antibiotic is much more," *Sci News* **2001**, *159*(8):116-117. http://findarticles.com/p/articles/mi_m1200/is_8_159/ai_72058417.

Raloff J. "Hormones: here's the beef. Environmental concerns reemerge over steroids given to livestock," *Sci News* **2002**, *161*(1):10-12.

Raloff J. "Pharm pollution: Excreted antibiotics can poison plants," *Sci News* **2002**, *161*(26):406. http://findarticles.com/p/articles/mi_m1200/is_26_161/ai_89581015.

Raloff J. "Contraceptive-Patch worry," *Sci News* **2002**, *162*:245-246. http://www.highbeam.com/doc/1G1-94129222.html.

Raloff J. "Happy Fish," *Sci News* **2006**, *170*(25):398. http://www.sciencenews.org/view/generic/id/8052/title/Happy_fish%3F.

Raloff J. "Aquatic Non-Scents Repercussions of water pollutants that mute smell," *Sci News* **2007**, *171*:59-60.

Raman DR, Layton AC, Moody LB, Easter JP, Sayler GS, Burns RT, et al. "Degradation of estrogens in dairy waste solids: Effects of acidification and temperature," *Transactions of the ASAE* **2001**, *44*(6):1881-1888.

Raman DR, Williams EL, Layton AC, Burns RT, Easter JP, Daugherty AS, et al. "Estrogen content of dairy and swine wastes," *Environ Sci Technol* **2004**, *38*(13):3567-3573. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i13/abs/es0353208.html.

Ramessar K, Sabalza M, Capell T, and Christou P. "Maize plants: An ideal production platform for effective and safe molecular pharming," *Plant Sci - Limerick* **2008**, *174*(4):409-419. http://direct.bl.uk/bld/PlaceOrder.do?UIN=224931916&ETOC=RN&from=searchengine.

Ramirez AJ. "Determination of Pharmaceuticals and Personal Care Products in Fish Using High Performance Liquid Chromatography-Tandem Mass Spectrometry and Gas Chromatography-Mass Spectrometry," Doctoral Dissertation, Baylor University, Department of Chemistry and Biochemistry, Waco, TX, 2007. 158 pp.

Ramirez AJ, Mottaleb MA, Brooks BW, and Chambliss CK. "Analysis of Pharmaceuticals in Fish Using Liquid Chromatography-Tandem Mass Spectrometry," *Anal Chem* **2007**, *79*(8):3155-3163. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac062215i.

Ramos Martos N, Molina Diaz A, Navalon A, De Orbe Paya I, and Capitan Vallvey LF. "Simultaneous spectrofluorimetric determination of (acetyl)salicylic acid, codeine and pyridoxine in pharmaceutical preparations using partial least-squares multivariate calibration," *J Pharmaceutical Biomed Anal* **2000**, *23*(5):837-844. http://www.sciencedirect.com/science/article/B6TGX-416C198-7/2/904d57b4690959e60d56829bbefe04a2.

Ramsey ED, Minty B, and Rees AT. "Drugs in water: Analysis at the part-per-billion level using direct supercritical fuid extraction of aqueous samples coupled on-line with ultraviolet-visible diodearray liquid chromatography-mass spectrometry," *Anal Comm* **1997**, *34*:261-264. Randon KA. "The risk of pharmaceutical drugs in drinking water "Masters Dissertation, Royal Roads, Victoria, British Columbia, Canada, 2007. 159 pp.

Rang HP, Dale MM, Ritter JM, and Gardner P. "Pharmacology," Churchill Livingstone, 2001, 4th ed., 856 pp.

Ranke S, Meyer C, Heinzel N, Gatermann R, Huhnerfuss H, Rimkus G, et al. "Enantiomeric composition of the polycyclic musks HHCB and AHTN in different aquatic species," *Chirality* **1999**, *11*(10):795-801.

Rankouhi TR, Sanderson JT, van Holsteijn I, van Leeuwen C, Vethaak AD, and M. vdB. "Effects of natural and synthetic estrogens and various environmental contaminants on vitellogenesis in fish primary hepatocytes: comparison of bream (Abramis brama) and carp (Cyprinus carpio)," *Toxicol Sci* **2004**, *81*(1):90-102.

Rao V, Dhar RL, and Subrahmanyam K. "Assessment of contaminant migration in groundwater from an industrial development area, Medak district, Andhra Pradesh, India," *Wat Air Soil Pollut* **2001**, *128*:369-389.

Rasmussen HT, McDonough R, Gargiullo RJ, and McPherson BP. "Determination of triclosan in human dental plaque by gas chromatography with atomic emission detection," *J High Resolution Chromatogr* **1996**, *19*(6):359-361.

Rathner M, and Sonneborn M. "Biologically active oestrogens in portable water and effluents," *Forum Stadte-Hygiene* **1979**, *30*:45-49.

Rau EH, Alaimo RJ, Ashbrook PC, Austin SM, Borenstein N, Evans MR, et al. "Minimization and management of wastes from biomedical research," *Environ Health Perspect* **2000**, *108*(6):953-977. http://www.ehponline.org/docs/2000/suppl-6/953-977rau/abstract.html http://www.ncbi.nlm.nih.gov/pubmed/11121362?dopt=Citation.

Ravina M, Campanella L, and Kiwi J. " Accelerated mineralization of the drug diclofenac via Fenton reactions in a concentric photo – reactor," *Wat Res* **2002**, *36*(14):3553-3560. http://cat.inist.fr/?aModele=afficheN&cpsidt=13852471.

Rawson CA, Lim RP, and Warne MSJ. "Skeletal morphology and maturation of male Gambusia holbrooki exposed to sewage treatment plant effluent," *Ecotoxicol Environ Safety* **2008**, *70*(3):453-461. http://www.sciencedirect.com/science/article/B6WDM-4RW4S17-1/1/a872bf35ccd14bbd57c8c96a1d28b9ae.

Ray DE, and Richards PG. "The potential for toxic effects of chronic, low-dose exposure to organophosphates," *Toxicol Lett* **2001**, *120*(1-3):343-351. http://www.sciencedirect.com/science/article/B6TCR-42VM8DN-1C/2/cfc5d584a79179f2615e24909f37f134.

RDI "R & D Insight (RDI) Database Guide." Adis International 2008. http://www.ovid.com/site/products/ovidguide/rdidb.htm. Rebmann A, Wauschkuhn C, and Waizenegger W. "Changing importance of musk aroma compounds as fragrance ingredients," *Deutsche Lebensmittel-Rundschau* **1997**, *93*(8):251-255.

Reddersen K, and Heberer T. "Formation of an artifact of diclofenac during acidic extraction of environmental water samples," *J Chromatogr A* **2003**, *1011*(1-2):221-226. http://www.sciencedirect.com/science/article/B6TG8-49C3KMM-B/2/e410ed881e6b88122d02b3b6c3c5623a.

Reddersen K, and Heberer T. "Multi-compound methods for the detection of pharmaceutical residues in various waters applying solid phase extraction (SPE) and gas chromatography with mass spectrometric (GC-MS) detection," *J Separation Sci* **2003**, *26*(15-16):1443-1450. http://cat.inist.fr/?aModele=afficheN&cpsidt=15239437.

Reddersen K, Heberer T, and Dunnbier U. "Identification and significance of phenazone drugs and their metabolites in ground- and drinking water," *Chemosphere* **2002**, *49*:539-544. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-46T45B2-2&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version= 1&_urlVersion=0&_userid=14684&md5=2fe05e820f08487ca602d07b99b05144.

Reddy S, and Brownawell BJ. "Analysis of estrogens in sediment from a sewage-impacted urban estuary using high-performance liquid chromatography/time-of-flight mass spectrometry," *Environ Toxicol Chem* **2005**, *24*(5):1041-1047.

Reddy S, Iden CR, and Brownawell BJ. "Analysis of steroid conjugates in sewage influent and effluent by liquid chromatography-tandem mass spectrometry," *Anal Chem* **2005**, *77*(21):7032-7038.

Redfern WS, Wakefield ID, Prior H, Pollard CE, Hammond TG, and Valentin JP. "Safety pharmacology - a progressive approach," *Fundamental Clinical Pharmacol* **2002**, *16*:161-173.

Redshaw CH, Wootton VG, and Rowland SJ. "Uptake of the pharmaceutical Fluoxetine Hydrochloride from growth medium by Brassicaceae," *Phytochemistry* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6TH7-4T8KXW7-2/2/605b99d2c37d4ef5c25e46e239a8febb.

Reemtsma T, and Jekel M, Eds., "Organic pollutants in the water cycle - Properties, occurrence, analysis and environmental relevance of polar compounds," 1st ed.; Wiley-VCH, Weinheim, Germany, 2006, 368 pp.

Reemtsma T, and Quintana JB. "Analytical methods for polar pollutants," in *Organic pollutants in the water cycle - Properties, occurrence, analysis and Environ relevance of polar compounds*, Reemtsma T and Jekel M, Eds., Wiley-VCH Verlag GmbH & Co. KGaA; Weinheim, Germany, 2006, 1-40.

Reemtsma T, Weiss S, Mueller J, Petrovic M, Gonzalez S, Barcelo D, et al. "Polar Pollutants Entry into the Water Cycle by Municipal Wastewater: A European Perspective," *Environ Sci Technol* **2006**, *40*(17):5451-5458. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060908a.

Reepmeyer JC, Brower JF, and Ye H. "Separation and detection of the isomeric equine conjugated estrogens, equilin sulfate and [Delta]8,9-dehydroestrone sulfate, by liquid chromatography-electrospray-mass spectrometry using carbon-coated zirconia and porous graphitic carbon stationary

phases," *J Chromatogr A* **2005**, *1083*(1-2):42-51. http://www.sciencedirect.com/science/article/B6TG8-4GHRC3B-1/2/87e5a4d7ab83f055a344256c8b332f5a.

Rees W, and Wackernagel M. "Urban ecological footprints: Why cities cannot be sustainable--And why they are a key to sustainability," *Environ Impact Assess Rev* **1996**, *16*(4-6):223-248. http://www.sciencedirect.com/science/article/B6V9G-3VWNJWM-2/2/065f7b8a857f0831f84f8b6e7141b50d.

Reeves AD, and Patton D. "Faecal sterols as indicators of sewage contamination in estuarine sediments of the Tay Estuary, Scotland: an extended baseline survey," *Hydrol Earth Syst Sci* 2005, *9*(1/2):81-94. http://adsabs.harvard.edu/abs/2005HESS....9...81R.

Regueiro J, Llompart M, Garcia-Jares C, Garcia-Monteagudo JC, and Cela R. "Ultrasound-assisted emulsification-microextraction of emergent contaminants and pesticides in environmental waters," *Journal of Chromatography A* **2008**, *1190*(1-2):27-38. http://www.sciencedirect.com/science/article/B6TG8-4S08JW4-5/1/10d7a02bce5104ab59b7eeb24f6f36e9.

Reguera IP, Rubio MG, and Diaz AM. "Native fluorescence flow-through optosensor for the fast determination of diphenhydramine in pharmaceuticals," *Anal Sciences* **2004**, *20*:799-803.

Reif R, Suarez S, Omil F, and Lema JM. "Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage," *Desalination* **2008**, *221*(1-3):511-517. http://www.sciencedirect.com/science/article/B6TFX-4RMGVXR-28/2/2968fc979de39708d32f4ea8a4628507.

Reimschuessel R, Stewart L, Squibb E, Hirokawa K, Brady T, Brooks D, et al. "Fish Drug Analysis— Phish-Pharm: A Searchable Database of Pharmacokinetics Data in Fish," *Aaps J* **2005**, *7*(2 (Article 30)):E288-E327. http://www.aapspharmsci.org/view.asp?art=aapsj070230.

Reinders A, Sivitz AB, Hsi A, Grof CPL, Perrous JM, and Ward JM. "Sugarcane ShSUT1: analysis of sucrose transport activity and inhibition by sucralose," *Plant, Cell & Environ* **2006**, *29*(10):1871-1880. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1365-3040.2006.01563.x.

Reineke N, Bester K, Huhnerfuss H, Jastorff B, and Weigel S. "Bioassay-directed chemical analysis of River Elbe surface water including large volume extractions and high performance fractionation," *Chemosphere* **2002**, *47*(7):717-723. http://www.sciencedirect.com/science/article/B6V74-44W3YVH-2/2/bc44e005a1259ee5cb1fe1f9e07ddc98.

Reiner JL, Berset JD, and Kannan K. "Mass flow of polycyclic musks in two wastewater treatment plants," *Arch Environ Contam Toxicol* **2007**, *52*(4):451-457. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17354035.

Reiner JL, and Kannan K. "A survey of polycyclic musks in selected household commodities from the United States," *Chemosphere* **2006**, *62*(6):867-873. http://www.sciencedirect.com/science/article/B6V74-4HMNFW2-3/2/5ad50a3bd88bb31a4f7804809891d7d5. Reiner JL, Wong CM, Arcaro KF, and Kannan K. "Synthetic musk fragrances in human milk from the United States," *Environ Sci Technol* **2007**, *41*(11):3815-3820. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/asap/abs/es063088a.html.

Reinhard M, Montgomery-Brown J, Louie JS, and Gross B. "From effluent to new water: Performance evaluation and quality assurance," *CHIMIA* **2003**, *57*(9):561-566.

Reinstorf F, Strauch G, Schirmer K, Glaser HR, Moder M, Wennrich R, et al. "Mass fluxes and spatial trends of xenobiotics in the waters of the city of Halle, Germany," *Environ Pollut* **2008**, *152*(2):452-460. http://www.sciencedirect.com/science/article/B6VB5-4PNF2T1-1/2/0e1693553b1c7e62d764b7d778650786.

Reinthaler FF, Posch J, Feierl G, Wust G, Haas D, Ruckenbauer G, et al. "Antibiotic resistance of E. coli in sewage and sludge," *Wat Res* **2003**, *37*(8):1685-1690. http://www.sciencedirect.com/science/article/B6V73-48B57CP-2/2/2f5445a99a0a4666d6d272e75224a498.

Reis RW, de Araujo JC, and Vieira EM. "Sexual estrogenic hormones: Bicactive contaminants," *Quimica Nova* **2006**, *29*(4):817-822.

Reisch MS. "Pure and sweet - Consumer demand helps natural and active ingredients gain headway in a wide variety of personal care formulations," *Chem Eng News* **2001**, *79*(16):23-28.

Reisch MS. "Shining a light on cosmetics - Concern about organic sunscreens aired at In-Cosmetics show in Düsseldorf," *Chem Eng News* **2001**, *79*(21):26.

Reisch MS. "Spotlight on sunscreens," Chem Eng News 2001, 79(49):25-29.

Reisch MS. "Designer cosmetics - Ingredients makers take lessons from biotechnology to mastermind the latest in personal care," *Chem Eng News* **2002**, *80*(12):16-21.

Reiss R, Mackay N, Habig C, and Griffin J. "An ecological risk assessment for triclosan in lotic systems following discharge from wastewater treatment plants in the United States," *Environ Toxicol Chem* **2002**, *21*(11):2483-2492.

Reiter L, Falk H, and Groat C. "From Source Water to Drinking Water: Workshop Summary," Roundtable on Environ Health Sciences, Research, and Medicine, Institute of Medicine, Washington, DC, 2004, http://books.nap.edu/catalog/11142.html.

Reith DM, and Cannell GR. "An hplc assay for carbamazepine phase I metabolites and their glucuronides in urine," *J Liquid Chromatogr Related Technol* **1999**, *22*(12):1907 - 1918. http://www.informaworld.com/10.1081/JLC-100101775.

Rempel MA, Reyes J, Steinert S, Hwang W, Armstrong J, Sakamoto K, et al. "Evaluation of relationships between reproductive metrics, gender and vitellogenin expression in demersal flatfish collected near the municipal wastewater outfall of Orange County, California, USA," *Aqua Toxicol* **2006**, 77(3):241-249. http://www.sciencedirect.com/science/article/B6T4G-4J8D8TF-1/2/2390f485f9b29b1740b4b326224d5ea2.

Ren HY, Ji SL, Ahmad NUD, Dao W, and Cui CW. "Degradation characteristics and metabolic pathway of 17 alpha-ethynylestradiol by Sphingobacterium sp JCR5," *Chemosphere* **2007**, *66*(2):340-346.

Renew JE, and Huang C-H. "Simultaneous determination of fluoroquinolone, sulfonamide, and trimethoprim antibiotics in wastewater using tandem solid phase extraction and liquid chromatography-electrospray mass spectrometry," *J Chromatogr* **2004**, *1042*(1-2):113-121. http://cat.inist.fr/?aModele=afficheN&cpsidt=15904363.

Renner R. "Results of low-dose exposure research may challenge the theoretical basis of toxicology," *Environ Sci Technol* **1998**, *32*(21):485A-486A.

Renner R. "Swine farms contribute to antibiotic resistance "*Appl Environ Microbiol* **2001**, 67(4):1494-1502. http://pubs.acs.org/subscribe/journals/esthag-w/2001/may/science/rr_swine.html.

Renner R. "Do cattle growth hormones pose an environmental risk?," *Environ Sci Technol* **2002**, *36*(9):194A-197A. http://pubs.acs.org/cgi-bin/article.cgi/esthag-a/0000/36/i09/html/09renn.html.

Renner R. "Drams of drugs and dregs - Excited chemicals pollute US streams," *Scientific Am* **2002**, 286:29.

Renner R. "Tamiflu survives sewage treatment," *Environ Sci Technol* **2007**, *41*(22):7591. http://pubs.acs.org/subscribe/journals/esthag/41/i22/html/111507news4.html.

Renner R. "A Tale of Two Fish," *Environ Sci Technol* **2008**, 42:6784-6785. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es801813m.

Renou S, Thomas JS, Aoustin E, and Pons MN. "Influence of impact assessment methods in wastewater treatment LCA," *J Cleaner Production* **2008**, *16*(10):1098-1105. http://www.sciencedirect.com/science/article/B6VFX-4PB160X-1/2/065d32c0efd4a8609eea5b30848f1338.

Renwick AG, and Walton K. "The use of surrogate endpoints to assess potential toxicity in humans," *Toxicol Lett* **2001**, *120*(1-3):97-110. http://www.sciencedirect.com/science/article/B6TCR-42VM8DN-F/2/46377627002f9740020abb6b25eb9972.

Reuters. "Researchers find estrogen-like chemicals in toiletries," Boston Globe, October 8 1998 http://www.boston.com/globe.

Reverte S, Borrull F, Pocurull E, and Maria Marce R. "Determination of antibiotic compounds in water by solid-phase extraction-high-performance liquid chromatography-(electrospray) mass spectrometry," *J Chromatogr A* **2003**, *1010*(2):225-232. http://www.sciencedirect.com/science/article/B6TG8-493HNS4-6/2/4c79083f57d40c77cf1124c09fe1fbbe.

Reyes C, Fernandez J, Freer J, Mondaca MA, Zaror C, Malato S, et al. "Degradation and inactivation of tetracycline by TiO2 photocatalysis," *J Photochem Photobiol A: Chem* **2006**, *184*(1-2):141-146. http://www.sciencedirect.com/science/article/B6TGY-4JTPM7W-4/2/1b9cbef110d6425473e875aa71ca1b72. Rhind SM, Kyle CE, Telfer G, Duff EI, and Smith A. "Alkyl phenols and diethylhexyl phthalate in tissues of sheep grazing pastures fertilized with sewage sludge or inorganic fertilizer," *Environ Health Perspect* **2005**, *113*(4):447-453.

Ribeiro C, udia, Tiritan ME, Rocha E, and Rocha MJ. "Development and Validation of a HPLC-DAD Method for Determination of Several Endocrine Disrupting Compounds in Estuarine Water," *J Liquid Chromatogr & Related Technol* **2007**, *30*(17):2729-2746. http://www.ingentaconnect.com/content/tandf/ljlc/2007/00000030/00000018/art00006 http://dx.doi.org/10.1080/10826070701560652.

Rice SL, and Mitra S. "Microwave-assisted solvent extraction of solid matrices and subsequent detection of pharmaceuticals and personal care products (PPCPs) using gas chromatography-mass spectrometry," *Anal Chimica Acta* **2007**, *589*(1):125-132. http://www.sciencedirect.com/science/article/B6TF4-4N49VP6-4/2/c815370af40fa400591272bcda9dfcdb.

Richards SM, and Cole SE. "A toxicity and hazard assessment of fourteen pharmaceuticals to Xenopus laevis larvae," *Ecotoxicology* **2006**, *15*(8):647-656.

Richards SM, Kelley SE, and Hanson ML. "Zooplankton Chitobiase Activity as an Endpoint of Pharmaceutical Effect," *Arch Environ Contam Toxicol* **2008**, *54*(4):637-644. http://direct.bl.uk/bld/PlaceOrder.do?UIN=226870890&ETOC=RN&from=searchengine.

Richards SM, Wilson CJ, Johnson DJ, Castle DM, Lam M, Mabury SA, et al. "Effects of pharmaceutical mixtures in aquatic microcosms," *Environ Toxicol Chem* **2004**, *23*(4):1035-1042. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F02-616.

Richardson BJ, Lam PKS, and Martin M. "Emerging chemicals of concern: Pharmaceuticals and personal care products (PPCPs) in Asia, with particular reference to Southern China," *Mar Pollut Bull* **2005**, *50*(9):913-920. http://www.sciencedirect.com/science/article/B6V6N-4GNTX8X-6/2/717f535a2c853b30b8b5ba87f11952d0.

Richardson ML, and Bowron JM. "The fate of pharmaceutical chemicals in the aquatic environment," *J Pharm Pharmacol* **1985**, *37*(1):1-12. http://www.ncbi.nlm.nih.gov/pubmed/2858520.

Richardson SD. "Mass spectrometry in environmental sciences," Chem Rev 2001, 101(2):211-254.

Richardson SD. "Environmental mass spectrometry: Emerging contaminants and current issues," *Anal Chem* **2002**, *74*(1212):2719-2741. http://cat.inist.fr/?aModele=afficheN&cpsidt=13745270.

Richardson SD. "Disinfection by-products and other emerging contaminants in drinking water," *TrAC Trends in Anal Chem* **2003**, 22(10):666-684. http://www.sciencedirect.com/science/article/B6V5H-4B4P26W-1G/2/455eab05909e98b486c67ffbe4e3f33b.

Richardson SD. "Environmental mass spectrometry: Emerging contaminants and current issues," *Anal Chem* **2008**, *80*(12):4373-4402.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac800660d.

Richardson SD, and Ternes TA. "Water Analysis: Emerging Contaminants and Current Issues," *Anal Chem* **2005**, 77(12):3807-3838. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac058022x.

Richman C, and Castensson S. "Impact of waste pharmaceuticals: an environmental hazard or "greenwash"?," *Pharm J* **2008**, *280*:335-342. http://www.pjonline.com/pdf/articles/pj_20080322_waste.pdf.

Richmond RH. "Environmental protection: applying the precautionary principle and proactive regulation to biotechnology," *Trends in Biotechnology* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6TCW-4SVBWRX-1/1/9ccec604e6f45d0e9ed70d31144faee8.

Richmond RH. "Environmental protection: applying the precautionary principle and proactive regulation to biotechnology," *Trends Biotechnol* **2008**, *26*(8):460-467. http://www.sciencedirect.com/science/article/B6TCW-4SVBWRX-1/2/9a611e09c0158e16045c80c38b1237b3.

Richter D, Massmann G, and Dunnbier U. "Behaviour and biodegradation of sulfonamides (p-TSA, o-TSA, BSA) during drinking water treatment," *Chemosphere* **2008**, *71*(8):1574-1581. http://www.sciencedirect.com/science/article/B6V74-4RHXTBW-1/2/9682c792d08e7763d72322813ba5c25b.

Richter D, Massmann G, and Dünnbier U. "Identification and significance of sulphonamides (p-TSA, o-TSA, BSA) in an urban water cycle (Berlin, Germany)," *Wat Res* **2008**, *42*(6-7):1369-1378. http://www.sciencedirect.com/science/article/B6V73-4PV948G-1/1/241cecb5e43fc74c552b1586dd7c9564.

Richter O, Kullmer C, and Kreuzig R. "Metabolic Fate Modeling of Selected Human Pharmaceuticals in Soils," *CLEAN - Soil, Air, Water* **2007**, *35*(5):495-503. http://dx.doi.org/10.1002/clen.200720015.

Ricking M, Schwarzbauer J, and Franke S. "Molecular markers of anthropogenic activity in sediments of the Havel and Spree Rivers (Germany)," *Wat Res* **2003**, *37*(11):2607-2617. http://www.sciencedirect.com/science/article/B6V73-48CFG8G-6/2/9ea10d70c02f8172ddab5df78a935517.

Ricking M, Schwarzbauer J, Hellou J, Svenson A, and Zitko V. "Polycyclic aromatic musk compounds in sewage treatment plant effluents of Canada and Sweden--first results," *Mar Pollut Bull* **2003**, *46*(4):410-417. http://www.sciencedirect.com/science/article/B6V6N-4811T95-N/2/180d3c909cca0fbc065de02ec24a3ac8.

Rico A. "Chemo-defence system," *Comptes Rendus de l'Academie des Sciences Series III Sciences de la Vie* **2001**, *324*(200):97-106. http://www.ingentaconnect.com/content/els/07644469/2001/00000324/00000002/art01281 http://dx.doi.org/10.1016/S0764-4469(00)01281-6.

Riddick L, Gentry EL, McDaniel M, and Brumley WC. "Evaluation of N-methyl-N-tertbutyldimethylsilyl trifluoroacetamide for environmental analysis under both EIMS and electron capture NICIMS conditions and comparison to trimethylsilyl reagents under EIMS," *Internat J Environ Anal Chem* **2006**, *86*(5):299-312.

Ridout S, Waters WE, and George CF. "Knowledge of and attitudes to medicines in the Southampton community," *Br J Clin Pharmacol* **1986**, *21*(6):701-712. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1400974.

Rieckermann J, Borsuk M, Reichert P, and Gujer W. "A novel method for estimating sewer exfiltration," *Wat Res* **2005**, *41*(5) http://www.agu.org/pubs/crossref/2005/2004WR003699.shtml.

Riesenfeld CS, Goodman RM, and Handelsman J. "Uncultured soil bacteria are a reservoir of new antibiotic resistance genes," *Environ Microbiol* **2004**, *6*(9):981-989. http://dx.doi.org/10.1111/j.1462-2920.2004.00664.x.

Rigos G, Nengas I, Alexis M, and Troisi GM. "Potential drug (oxytetracycline and oxolinic acid) pollution from Mediterranean sparid fish farms," *Aqua Toxicol* **2004**, *69*(3):281-288. http://www.sciencedirect.com/science/article/B6T4G-4CTCXGS-2/2/61d6b2a1e866b470a4334934ab98a359.

Rigos G, and Troisi GM. "Antibacterial agents in mediterranean finfish farming: A synopsis of drug pharmacokinetics in important euryhaline fish species environmental implications," *Rev Fish Biol Fisheries* **2005**, *15*(1-2):53-73.

Rimkus GG. "Polycyclic musk fragrances in the aquatic environment," *Toxicol Lett* **1999**, *111*(1-2):37-56. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-5/2/0726d4cb893159df5a26819e8e96f8dd.

Rimkus GG. "Synthetic Musk Fragrances in the Environment." New York, NY, Springer-Verlag 2004, 338 pp.

Rimkus GG, and Brunn H. "Synthetische moschusduftstoffe – Anwendung, anreicherung in der unwelt und toxikologie; Teil 1: Herstellung, anwendung, vorkommen in lebensmitteln, aufnahme durch den menschen," *Ernährungs-Umschau* **1996**, *43*:442-449.

Rimkus GG, Butte W, and Geyer HJ. "Critical considerations on the analysis and bioaccumulation of musk xylene and other synthetic nitro musks in fish," *Chemosphere* **1997**, *35*(7):1497-1507. http://www.sciencedirect.com/science/article/B6V74-3SWM49B-B/2/9a38ab4e440c519aa30bf81ffd4254b8.

Rimkus GG, Gatermann R, and Huhnerfuss H. "Musk xylene and musk ketone amino metabolites in the aquatic environment," *Toxicol Lett* **1999**, *111*(1-2):5-15. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-2/2/10594093321141f9066f4a72a9eb1dd0.

Rimkus GG, Rimkus B, and Wolf M. "Nitro musks in human adipose-tissue and breask-milk," *Chemosphere* **1994**, *28*(2):421-432.

Rimkus GG, and Wolf M. "Contaminants in fish from aquaculture .2. must xylene and musk ketone contaminants in fish," *Deutsche Lebensmittel-Rundschau* **1993**, *89*(6):171-175.

Rimkus GG, and Wolf M. "Nitro musk fragrances in biota from fresh-water and marine-environment," *Chemosphere* **1995**, *30*(4):641-651.

Rimkus GG, and Wolf M. "Polycyclic musk fragrances in human adipose tissue and human milk," *Chemosphere* **1996**, *33*(10):2033-2043. http://www.sciencedirect.com/science/article/B6V74-3VV3H82-G/2/3792922dfb85e302116cacf566208d15.

Risebrough R. "Fatal medicine for vultures," Nature 2004, 427:596-598.

Ritter L, Solomon K, Sibley P, Hall K, Keen P, Mattu G, et al. "Sources, pathways, and relative risks of contaminants in surface water and groundwater: A perspective prepared for the Walkerton inquiry," *J Toxicol Environ Health - Part A - Current Issues* **2002**, *65*(1):1-142.

Rivera V, Levieux A, and Levieux D. "Characterisation of Agl, the major species-specific contaminant of bovine crude heparin, and its identification as an aprotinin/heparin complex," *J Pharmaceutical Biomed Anal* **2002**, *29*:443-458.

Rivera-Jiménez SM, and Hernández-Maldonado A. "Nickel(II) Grafted MCM-41: A Novel Sorbent for the Removal of Naproxen from Water," *Microporous Mesoporous Materials* **2008**, *Accepted Manuscript, In Press.*

Roach S, Higuchi R, Adams M, Liu Y, Karanewsky D, Marschke K, et al. "Discovery of nonsteroidal glucocorticoid receptor ligands based on 6-indole-1,2,3,4-tetrahydroquinolines," *Bioorganic Med Chem Lett* **2008**, *18*(12):3504-3508.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TF9-4SGKB9M-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=57e5ea0044edcfa69344d08b3db24a89.

Robberson KA, Waghe AB, Sabatini DA, and Butler EC. "Adsorption of the quinolone antibiotic nalidixic acid onto anion-exchange and neutral polymers," *Chemosphere* **2006**, *63*(6):934-941.

Roberts AL, and Bouwer EJ. "Pharmaceuticals and Antiseptics: Occurrence and Fate in Drinking Water, Sewage Treatment Facilities, and Coastal Waters," USEPA, EPA Grant Number: R829004, Johns Hopkins University 2001-2006.

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1061/report/0.

Roberts L, and Simpson S. "Deadly Defiance," *Science* **2008**, *321*(5887):355-. http://www.sciencemag.org/cgi/content/short/321/5887/355.

Roberts MC. "Nomenclature for tetracycline resistance genes," Washington, 2007, pp. http://faculty.washington.edu/marilynr/tetweb1.pdf.

Roberts PH, and Bersuder P. "Analysis of OSPAR priority pharmaceuticals using high-performance liquid chromatography-electrospray ionisation tandem mass spectrometry," *J Chromatogr A* **2006**, *1134*(1-2):143-150. http://www.sciencedirect.com/science/article/B6TG8-4KXWJVT-2/2/bba9e95acf417b5b6fec9228476ca96c.

Roberts PH, and Thomas KV. "The occurrence of selected pharmaceuticals in wastewater effluent and surface waters of the lower Tyne catchment," *Sci Total Environ* **2006**, *356*(1-3):143-153. http://www.sciencedirect.com/science/article/B6V78-4G9GN3M-1/2/08d5d7d5bbbd4601b16de06c939abeb2.

Robinson AA, Belden JB, and Lydy MJ. "Toxicity of fluoroquinolone antibiotics to aquatic organisms," *Environ Toxicol Chem* **2005**, *24*(2):423-430.

Robinson B. "The occurrence and fate of natural and synthetic estrogenic compounds in Haliax Harbour," Masters Dissertation, Dahlousie University, Halifax, Nova Scotia, Canada, 2006. 137 pp. http://wwwlib.umi.com/dissertations/fullcit/MR19491.

Robinson CD, Brown E, Craft JA, Davies IM, Moffat CF, Pirie D, et al. "Effects of sewage effluent and ethynyl oestradiol upon molecular markers of oestrogenic exposure, maturation and reproductive success in the sand goby (Pomatoschistus minutus, Pallas)," *Aqua Toxicol* **2003**, *62*(2):119-134. http://www.sciencedirect.com/science/article/B6T4G-46SW8X9-1/1/ebed41b0bfebe590d4fe00dd1b8fe917.

Robinson I, Junqua G, Van Coillie R, and Thomas O. "Trends in the detection of pharmaceutical products, and their impact and mitigation in water and wastewater in North America," *Anal Bioanal Chem* **2007**, *387*(4):1143-1151. http://www.springerlink.com/content/280661235636mvn3/.

Robinson JA. "Assessing environmental impacts of veterinary products: Lessons from VICH," *Drug Information J* 2007, *41*(2):169-185. http://cat.inist.fr/?aModele=afficheN&cpsidt=18628559.

Robinson PF, Liu Q-T, Riddle AM, and Murray-Smith R. "Modeling the impact of direct phototransformation on predicted environmental concentrations (PECs) of propranolol hydrochloride in UK and US rivers," *Chemosphere* **2007**, *66*(4):757-766. http://www.sciencedirect.com/science/article/B6V74-4PNJ1KT-V/2/4959c5d738d9ae755ac93fee7678e964.

Roda A, Mirasoli M, Michelini E, Magliulo M, Simoni P, Guardigli M, et al. "Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants," *Anal Bioanal Chem* **2006**, *385*(4):742-752.

Rodan BD, Pennington DW, Eckley N, and Boethling RS. "Screening for persistent organic pollutants: techniques to provide a scientific basis for POPs criteria in international negotiations," *Environ Sci Technol* **1999**, *33*(20):3482 -3488. http://cat.inist.fr/?aModele=afficheN&cpsidt=1992500.

Rodger HD, and Inglis V. "Effect of trenbolone acetate on development of atlantic salmon skin and the lack of epidermal production against laboratory-induced furunculosis," *J Aquatic Animal Health* **1995**, 7:50-53.

Rodgers-Gray TP, Jobling SM, S., Kelly C, Kirby S, Janbakhsh A, Harries JE, et al. "Long-term temporal changes in the estrogenic composition of treated sewage effluent and its biological effects on fish," *Environ Sci Technol* **2000**, *34*(8):1521-1528. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i08/abs/es991059c.html.

Rodil R, and Moeder M. "Development of a method for the determination of UV filters in water samples using stir bar sorptive extraction and thermal desorption-gas chromatography-mass spectrometry," *Journal of Chromatography A* **2008**, *1179*(2):81-88. http://www.sciencedirect.com/science/article/B6TG8-4R8MDR2-D/1/7c04e4b3b24ce129193807f326ae6282.

Rodrigues F, Lehmann M, Souza do Amaral V, Reguly ML, and Rodrigues de Andrade HH. "Genotoxicity of three mouthwash products, Cepacol®, Periogard®, and Plax®, in the Drosophila wing-spot test," *Environ Molecular Mutagenesis* **2007**, *48*(8):644-649. http://dx.doi.org/10.1002/em.20332.

Rodriguez C, Lang L, Wang A, Altendorf K, Garcia F, and Lipski A. "Lettuce for human consumption collected in Costa Rica contains complex communities of culturable oxytetracycline- and gentamicin-resistant bacteria," *Appl Environ Microbiol* **2006**, *72*(9):5870-5876.

Rodriguez I, Carpinteiro J, Quintana JB, Carro AM, Lorenzo RA, and Cela R. "Solid-phase microextraction with on-fiber derivatization for the analysis of anti-inflammatory drugs in water samples," *J Chromatogr A* **2004**, *1024*(1-2):1-8. http://www.sciencedirect.com/science/article/B6TG8-4B1XTBJ-4/2/dbe578848652bbb4dabe53af6c72c548.

Rodriguez I, Quintana JB, Carpinteiro J, Carro AM, Lorenzo RA, and Cela R. "Determination of acidic drugs in sewage water by gas chromatography-mass spectrometry as tert.-butyldimethylsilyl derivatives," *J Chromatogr A* **2003**, *985*(1-2):265-274. http://www.sciencedirect.com/science/article/B6TG8-475B9Y6-F/2/60f20fb121047454c130c9df30a9b10f.

Rodríguez-Martínez J, Martínez-Amador S, and Garza-García Y. "Comparative anaerobic treatment of wastewater from pharmaceutical, brewery, paper and amino acid producing industries," *J Indus Microbiol Biotechnol* **2005**, *32*(11):691-696. http://dx.doi.org/10.1007/s10295-005-0244-z.

Rodriguez-Mozaz S, de Alda MJL, and Barcelo D. "Picogram per liter level determination of estrogens in natural waters and waterworks by a fully automated on-line solid-phase extraction-liquid chromatography-electrospray tandem mass spectrometry method," *Anal Chem* **2004**, *76*(23):6998-7006.

Rodriguez-Mozaz S, Lopez de Alda MJ, and Barcelo D. "Monitoring of estrogens, pesticides and bisphenol A in natural waters and drinking water treatment plants by solid-phase extraction-liquid chromatography-mass spectrometry," *J Chromatogr A* **2004**, *1045*(1-2):85-92. http://www.sciencedirect.com/science/article/B6TG8-4CVV830-4/2/c77e03a6f862d58bef2b02522213155e.

Rodriguez-Mozaz S, Lopez de Alda MJ, and Barcelo D. "Advantages and limitations of on-line solid phase extraction coupled to liquid chromatography-mass spectrometry technologies versus biosensors for monitoring of emerging contaminants in water," *Journal of Chromatography A* **2007**, *1152*(1-2):97-115. http://www.sciencedirect.com/science/article/B6TG8-4MVF4XF-8/2/401aaab20e1f6ae137357e4d142404a1.

Rodriguez-Mozaz S, Marco MP, de Alda MJL, and Barcelo D. "Biosensors for environmental monitoring of endocrine disruptors: a review article," *Anal Bioanal Chem* **2004**, *378*(3):588-598.

Roembke J, Knacker T, and Stahlschmidt-Allner P. "Studie über Umweltprobleme im Zusammenhang mit Arzneimitteln. Study about environmental problems in context with drugs," F+E Vorhabens, Berlin, Ger **1996**, 106(04):121.

Roepke TA. "Estradiol and endocrine disrupting compounds effects on echinoderm reproduction and development: Deveopment sensitivities and defense mechanisms," Doctoral Dissertation, University of California Davis, Davis, CA, 2005. pp.

Rogers HR. "Sources, behaviour and fate of organic contaminants during sewage treatment and in sewage sludges," *Sci Total Environ* **1996**, *185*(1-3):3-26. http://www.sciencedirect.com/science/article/B6V78-3VW1226-1B/2/dd106d7459a22a4ebb13787b730f31df.

Rogers IH, Britwell IK, and Kruzynski GM. "Organic extractables in municipal wastewater: Vancouver, British Columbia," *Wat Pollut Res J Canada* **1986**, *21*(2):187-204.

Rogers RS. "Sepracor: Skating on thin 'ice'," Chem Eng News 1998, 30:11-13.

Rohn D. "Indiana is flush with septic woes. As much as 70 percent of systems are considered failing, inadequate; E. coli risks worry health officials," Indianapolis Star, 17 July 2000.

Rombke J, Hempel H, Scheffczyk A, Schallnaß HJ, Alvinerie M, and Lumaret JP. "Environmental risk assessment of veterinary pharmaceuticals: Development of a standard laboratory test with the dung beetle Aphodius constans," *Chemosphere* **2007**, *70*(1):57-64. http://www.sciencedirect.com/science/article/B6V74-4PKP492-2/2/60d00bc4d55a871675a3b4c101532b6b.

Rombke J, Knacker T, and Teichmann H. "Environmental risk assessment of pharmaceuticals: a proposal with special emphasis on european aspects," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 17, 304-319.

Romero-González R, López-Martínez JC, Gómez-Milán E, Garrido-Frenich A, and Martínez-Vidal JL. "Simultaneous determination of selected veterinary antibiotics in gilthead seabream (Sparus Aurata) by liquid chromatography-mass spectrometry," *J Chromatogr B* **2007**, *857*(1):142-148. http://www.sciencedirect.com/science/article/B6X0P-4P5NX5G-1/1/48ee2cdec1e61979ba5899d820c1ca8f.

Ronteltap M, Maurer M, and Gujer W. "The behaviour of pharmaceuticals and heavy metals during struvite precipitation in urine," *Wat Res* **2007**, *41*(9):1859-1868.

Rooklidge SJ. "Environmental antimicrobial contamination from terraccumulation and diffuse pollution pathways," *Sci Total Environ* **2004**, *325*(1-3):1-13. http://www.sciencedirect.com/science/article/B6V78-4BNVXT8-B/2/be7b8c1b1096aa2b7cecdca975482135. Rooklidge SJ, Burns ER, and Bolte JP. "Modeling antimicrobial contaminant removal in slow sand filtration," *Wat Res* **2005**, *39*(2-3):331-339. http://www.sciencedirect.com/science/article/B6V73-4DW34FG-1/2/f2126161870fb9b53d59d72e299089b5.

Rooklidge SJ, Miner JR, Kassim TA, and Nelson PO. "Antimicrobial contaminant removal by multistage slow sand filtration," *J Am Wat Works Assoc* **2005**, *97*(12):92-100.

Roosens L, Covaci A, and Neels H. "Concentrations of synthetic musk compounds in personal care and sanitation products and human exposure profiles through dermal application," *Chemosphere* **2007**, *69*(10):1540-1547. http://www.sciencedirect.com/science/article/B6V74-4P5YK1Y-2/2/37093b973fc842346a92fa5b45b74c36.

Rosal R, Rodríguez A, Gonzalo MS, and García-Calvo E. "Catalytic ozonation of naproxen and carbamazepine on titanium dioxide," *Applied Catalysis B: Environmental* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6TF6-4S32NKW-2/1/262a1138e379f4dfcdd4f66bc4f6cdb9.

Rosal R, Rodríguez A, Perdigón-Melón JA, Mezcua M, Hernando MD, Letón P, et al. "Removal of pharmaceuticals and kinetics of mineralization by O₃/H₂O₂ in a biotreated municipal wastewater," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4STYTSC-6/1/64aaa854c2b609206ca5ad4bfced66f8.

Rose J, Holbech H, Lindholst C, Nørum U, Povlsen A, Korsgaard B, et al. "Vitellogenin induction by 17 β -estradiol and 17 α -ethinylestradiol in male zebrafish (Danio rerio)," *Comp Biochem Physiol Part C Toxicol & Pharmacol* 2002, *131*(4):531-539. http://www.sciencedirect.com/science/article/B6W89-45DF6DM-1/1/88a5f596a62d06d6584b0c8197e68ea9.

Rose PE, and Pedersen JA. "Fate of oxytetracycline in streams receiving aquaculture discharges: Model simulations," *Environ Toxicol Chem* **2005**, *24*(1):40-50.

Rosen M, Welander T, Lofqvist A, and Holmgren J. "Development of a new process for treatment of a pharmaceutical wastewater," *Wat Sci Technol* **1998**, *37*(9):251-258. http://www.sciencedirect.com/science/article/B6VBB-3TN9N7K-15/2/8e430af04c8220abc0217796972a68d3.

Rosenberg J, Schilit S, and Nathan J. "Clinical Q & A: Which oral solid medications should be protected from light and/or moisture? (Part 1 of 2)," *Drug Topics* **2008**:25-27. http://drugtopics.modernmedicine.com/drugtopics/Pharmacy/Clinical-Q-amp-A-Which-oral-solid-medications-shou/ArticleStandard/Article/detail/515477?searchString=moisture%20sensitive.

Rosenfeldt EJ. "UV and UV/hydrogen peroxide advanced oxidation: A theoretical, practical, and comparative examination of UV processes used to treat emerging contaminants of concern in drinking water " Doctoral Dissertation, Duke University, 2007. 203 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2221239 ,FM=9,SEARCH=MD.GenericSearch.

Rosenfeldt EJ, Chen PJ, Kullman S, and Linden KG. "Destruction of estrogenic activity in water using UV advanced oxidation," *Sci Total Environ* **2007**, *377*(1):105-113.

http://www.sciencedirect.com/science/article/B6V78-4N6NHD7-5/2/fb945417da04b32b9f116932f6f164fd.

Rosenfeldt EJ, and Linden KG. "Degradation of Endocrine Disrupting Chemicals Bisphenol A, Ethinyl Estradiol, and Estradiol during UV Photolysis and Advanced Oxidation Processes," Environ Sci Technol 2004, 38(20):5476-5483.

http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es035413p.

Rosenow ECI. "Patients' Understanding of and Compliance With Medications: The Sixth Vital Sign?," Mayo Clin Proceedings, December 1, 2005, 983-987 pp. http://www.mayoclinicproceedings.com/inside.asp?a=1&ref=8008e1.

Ross K. "Drugs in the water - levels of cocaine metabolite in wastewater point to widespread abuse of the drug," Anal Chem 2006, 78(1):13. http://pubs.acs.org/subscribe/journals/anchama/78/i01/pdf/0106detective.pdf.

Rossknecht H, Hetzenauer H, and Ternes TA. "Pharmaceuticals in Lake Constance," Nachrichten Aus Chemie 2001, 49(2):145-149.

Roth M. "Pharmaceuticals in the environment,"?, pp.

Rothberg BEG, Ramesh TM, and Burgess CE. "Integrating expression-based drug response and SNPbased pharmacogenetic strategies into a single comprehensive pharmacogenomics program," Drug Development Research 2000, 49:54-64.

Rouhani Rankouhi T, Sanderson JT, van Holsteijn I, van Kooten P, Bosveld ATC, and van den Berg M. "Effects of environmental and natural estrogens on vitellogenin production in hepatocytes of the brown frog (Rana temporaria)," Aqua Toxicol 2005, 71(1):97-101. http://www.sciencedirect.com/science/article/B6T4G-4DV1KT7-1/2/9997cc955e87c41f84f670672f742667.

Rouhi AM. "Perfumes: A whiff of chemistry," Chem Eng News 1999, (25 October):38-46.

Rouhi AM. "Simple molecules aid drug uptake," Chem Eng News 2001, (15 January):49-50.

Rouhi AM. "Citrus chemistry boosts drugs," Chem Eng News 2003:38-39.

Rouhi AM. "Drug Pollution," Chem Eng News 2008, 86(8):3. http://pubs.acs.org/cen/editor/86/8608editor.html.

Rouhi M. "Germ killers - Could widely used biocide triclosan, found in common household products, pose a health risk?," Chem Eng News 1998:9 pp.

Rouhi M. "Sugar on top: Strategy for modifying vancomycin," Chem Eng News 1998, 76(43):10.

Routledge EJ, Parker J, Odum J, Ashby J, and Sumpter JP. "Some Alkyl Hydroxy Benzoate Preservatives (Parabens) Are Estrogenic," Toxicol Appl Pharmacol 1998, 153(1):12-19. http://www.sciencedirect.com/science/article/B6WXH-45KNBGG-2/2/216f385a25b45e01641f89233f41b21f

Routledge EJ, Sheahan D, Desbrow C, Brighty GC, Waldock M, and Sumpter JP. "Identification of estrogenic chemicals in STW effluent. 2. In vivo responses in trout and roach," *Environ Sci Technol* **1998**, *32*(11):1559-1565. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1998/32/i11/abs/es970796a.html.

Routledge EJ, Waldock M, and Sumpter JP. "Response to comment on 'Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening'," *Environ Sci Technol* **1999**, *33*(2):371. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1999/33/i02/abs/es982016j.html.

Rowland S, Donkin P, Smith E, and Wraige E. "Aromatic Hydrocarbon "Humps" in the Marine Environment: Unrecognized Toxins?," *Environ Sci Technol* **2001**, *35*(13):2640-2644. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0018264.

Roy P, Purushothaman V, Koteeswaran A, and Dhillon AS. "Isolation, Characterization, and Antimicrobial Drug Resistance Pattern of Escherichia coli Isolated from Japanese Quail and their Environment," *J Appl Poultres* **2006**, *15*(3):442-446. http://japr.fass.org/cgi/content/abstract/15/3/442.

Royal Pharmaceutical Society. "Changes in the management of CDs affecting pharmacists in England," *Pharm J* **2006**, 276:355-358. http://www.pjonline.com/pdf/society/pj_20060325_cds.pdf.

Royal Pharmaceutical Society of Great Britain. "The hazardous waste (England and Wales) regulations 2005 Interim Guidance for Community Pharmacists for England and Wales and Information for Scotland," December, 2005, 8 pp. http://www.rpsgb.org.uk/pdfs/hazwastecommphguid.pdf.

Royal Pharmaceutical Society of Great Britain. "Guidance for Pharmacists on the safe destruction of Controlled Drugs England, Scotland and Wales," September, 2007, 6 pp. http://www.rpsgb.org.uk/pdfs/cdsafedestructionguid.pdf.

Royal Society of Chemistry. "Sustainable Water: Chemical Science Priorities Summary Report " 1 November, 2007, 28 pp. http://www.rsc.org/ScienceAndTechnology/Policy/Documents/water.asp.

Royal Society of Chemistry. "Sustainable Water: Chemical Science Priorities," 1 November, 2007, pp. http://www.rsc.org/ScienceAndTechnology/Policy/Documents/water.asp.

Royte E. "Drugging the Waters: How an Aging Population and Growing Addiction to Pharmaceuticals May be Poisoning Our Rivers," *onearth* **2006**, *Fall Issue* 26-31. http://www.nrdc.org/onearth/06fal/waters1.asp.

Royte E. "Bottlemania: How water went on sale and why we bought it," Bloomsbury, 2008, 248 pp. http://www.nytimes.com/2008/06/15/books/review/Margonelli-t.html.

Rubert KF, and Pedersen JA. "Kinetics of oxytetracycline reaction with a hydrous manganese oxide," *Environ Sci Technol* **2006**, *40*(23):7216-7221. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i23/abs/es0603570.html.

Rubies A, Cabrera A, and Centrich F. "Determination of synthetic hormones in animal urine by high-performance liquid chromatography/mass spectrometry," *J AOAC Internat* **2007**, *90*(2):626-632.

Rubies A, Vaquerizo R, Centrich F, Compano R, Granados M, and Prat MD. "Validation of a method for the analysis of quinolones residues in bovine muscle by liquid chromatography with electrospray ionisation tandem mass spectrometry detection," *Talanta* **2007**, *72*(1):269-276. http://www.sciencedirect.com/science/article/B6THP-4MFJJ2K-6/2/b4898681a45d43c0fed7e533df383b03.

Rubinstein L. "Operating Unwanted Medication Collections - A Legal & Safe Approach," NERC Northeast Recycling Council Inc, 2006, 65 pp. www.nerc.org.

Rubinstein L. "Holding an Unwanted Medication Collection as Part of a Household Hazardous Waste Event - A Legal & Safe Approach," NERC Northeast Recylcing Council Inc, 2006, pp. http://www.nerc.org/adobe/hhw.setting.upFINAL.pdf.

Rubinstein L, and NERC. "Unwanted medication collection: Why & how," Powerpoint Presentation, Northeast Recycling Council, Inc, May 4 2005. http://www.nerc.org/documents/unwanted_medications_may_05.pdf.

Rudder Jd, Wiele TVd, Dhooge W, Comhaire F, and Verstraete W. "Advanced water treatment with manganese oxide for the removal of 17[alpha]-ethynylestradiol (EE2)," *Wat Res* **2004**, *38*(1):184-192. http://www.sciencedirect.com/science/article/B6V73-49WMSC1-2/2/ef5f81b84c58d4b2e202e03ddc681e71.

Rudel H, Bohmer W, and Schroter-Kermani C. "Retrospective monitoring of synthetic musk compounds in aquatic biota from German rivers and coastal areas," *J Environ Monit* **2006**, *8*(8):812-823.

Rudel RA, Brody JG, Spengler JD, Vallarino J, Geno PW, Sun G, et al. "Identification of selected hormonally active agents and animal mammary carcinogens in commercial and residential air and dust samples," *J Air Waste Manage Assoc* **2001**, *51*:499-513.

Rudholm N. "Pharmaceutical insurance and the demand for prescription pharmaceuticals in Vasterbotten, Sweden," *Scand J Public Health* **2005**, *33*(1):50-56. http://sjp.sagepub.com/cgi/content/abstract/33/1/50.

Ruengsitagoon W, Liawruangrath S, and Townshend A. "Flow injection chemiluminescence determination of paracetamol," *Talanta* **2006**, *69*(4):976-983. http://www.sciencedirect.com/science/article/B6THP-4J0WR7Y-1/2/05333c92ce2a37b8a8eef13dc51d2a8d.

Ruhoy IS. "Examining Unused Pharmaceuticals in the Environment," Doctoral Dissertation University of Nevada, Las Vegas, Dept Environ Studies, 2008 (in preparation). xxx pp.

Ruhoy IS, and Daughton CG. "Types and quantities of leftover drugs entering the environment via disposal to sewage -- Revealed by coroner records," *Sci Total Environ* **2007**, *388*(1-3):137-148. http://www.sciencedirect.com/science/article/B6V78-4PPNM42-3/2/78730b80164296beb38866c1805e74bc; http://www.epa.gov/nerlesd1/bios/daughton/SOTE2007.pdf. Ruhoy IS, and Daughton CG. "Pharmaceutical Disposal and the Environment," Poster Presentation, USEPA, NERL, Las Vegas, NV, December 2007. http://www.epa.gov/nerlesd1/chemistry/images/drug-disposal-2.pdf.

Ruhoy IS, and Daughton CG. "Disposal as a Source of Pharmaceuticals in the Environment," Poster Presentation, USEPA, NERL, Las Vegas, NV, December 2007. http://www.epa.gov/nerlesd1/chemistry/images/drug-disposal-1.pdf.

Ruhoy IS, and Daughton CG. "Beyond the medicine cabinet: An analysis of where and why medications accumulate," *Environ Internat* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V7X-4ST4CDJ-1/1/c636614fb4803fd1bc51da1645e0f38c.

Ruiz JA, Simarro PP, and Josenando T. "Control of human African trypanosomiasis in the Quicama focus," *Angola Bulletin of the World Health Organization* **2002**, 80:738-745.

Rule KL, Ebbett VR, and Vikesland PJ. "Formation of Chloroform and Chlorinated Organics by Free-Chlorine-Mediated Oxidation of Triclosan," *Environ Sci Technol* **2005**, *39*(9):3176-3185. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es048943+.

RUM, and Appel S. "Return your unwanted medicines to your pharmacy," Limited TNRDoUM, Ed., 2008, pp.

http://www.westernifh.org/uploads/Action/Return%20Unawanted%20Medicines%20Report%20-%20Galliagh%20Women's%20Group_20060510122032.doc.

RUM, Galliagh Women's Group, and Gallagher M. "Return unwanted medicines (RUM) project," May, 2003, 16 pp.

http://www.westernifh.org/uploads/Action/Return%20Unawanted%20Medicines%20Report%20-%20Galliagh%20Women's%20Group_20060510122032.doc.

Rundstedt RJ. "Cost Analysis for the Return and Disposal of Expired Navy Pharmaceuticals," Masters Dissertation, Naval Postgraduate School, Monterey, CA, 1993. 91 pp. http://stinet.dtic.mil/cgibin/GetTRDoc?AD=ADA277212&Location=U2&doc=GetTRDoc.pdf.

Russell AD. "Bacterial resistance to disinfectants: present knowledge and future problems," *Journal of Hospital Infection* **1999**, *43*(Supplement 1):S57-S68. http://www.sciencedirect.com/science/article/B6WJP-4CF0J6K-8/2/627d9759ba35fe0f1343e3befdf63784.

Russell AD. "Antibiotic and biocide resistance in bacteria: comments and conclusions," *J Appl Microbiol* **2002**, *92*(1):171S-173S. http://www.ingentaconnect.com/content/bsc/jam/2002/0000092/A00100s1/art01630.

Russell AD, Hammond SA, and Morgan JR. "Bacterial resistance to antiseptics and disinfectants," *Journal of Hospital Infection* **1986**, 7(3):213-225. http://www.sciencedirect.com/science/article/B6WJP-4CDHNHS-58/2/928af6d840ae8cf681a2964cc396c0cf. Rutherford SL, and Lindquist S. "Hsp90 as a capacitor for morphological evolution," *Nature* **1998**, *396*(6709):336-342. http://www.ncbi.nlm.nih.gov/pubmed/9845070.

Rutishauser BV, Pesonen M, Escher BI, Ackermann GE, Aerni HR, Suter MJF, et al. "Comparative analysis of estrogenic activity in sewage treatment plant effluents involving three in vitro assays and chemical analysis of steroids," *Environ Toxicol Chem* **2004**, *23*(4):857-864. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F03-286.

RxList "Top Prescription Index," http://www.rxlist.com/script/main/art.asp?articlekey=79437.

Ryan BC, and Vandenbergh JG. "Developmental exposure to environmental estrogens alters anxiety and spatial memory in female mice," *Hormones and Behavior* **2006**, *50*(1):85-93.

Ryan JF. "The parmaceutical centrury, 10 decades of drug discovery," *Am Chem Soc* **2000**, *Supplement* http://pubs.acs.org/journals/pharmcent/Ch1.html.

Ryan MA. "'Functional foods' hit supermarket shelves," *Today's Chem at work* **1999**, *8*(9):59-63. http://pubs.acs.org/journals/tcwoe7/toc/0999toc.html.

Rysz M, and Alvarez PJJ. "Amplification and attenuation of tetracycline resistance in soil bacteria: aquifer column experiments," *Wat Res* **2004**, *38*(17):3705-3712. http://www.sciencedirect.com/science/article/B6V73-4D8DKT2-4/2/c843dc7a66e0ea28e42677fe07934629.

Sabaliunas D, Webb SF, Hauk A, Jacob M, and Eckhoff WS. "Environmental fate of Triclosan in the River Aire Basin, UK," *Wat Res* **2003**, *37*(13):3145-3154. http://www.sciencedirect.com/science/article/B6V73-48PV2FF-D/1/efa03cb08784e67bc5974c4d1e80fbe2.

Sabaté M, Prats G, Moreno E, Ballesté E, Blanch AR, and Andreu A. "Virulence and antimicrobial resistance profiles among Escherichia coli strains isolated from human and animal wastewater," *Res Microbiol* **2008**, *159*(4):288-293. http://www.sciencedirect.com/science/article/B6VN3-4S0PKD7-2/1/8e9d104f036276b40d37b13fd8d27238.

Sablowski R, and Harberd NP. "Plant genes on steroids," Science 2005, 307(5715):1569-1570.

Sabo-Attwood T, Blum JL, Kroll KJ, Patel V, Birkholz D, Szabo NJ, et al. "Distinct expression and activity profiles of largemouth bass (Micropterus salmoides) estrogen receptors in response to estradiol and nonylphenol," *J Mol Endocrinol* **2007**, *39*(4):223-237. http://jme.endocrinology-journals.org/cgi/content/abstract/39/4/223.

Sacher F, Ehmann M, Gabriel S, Graf C, and Brauch H-J. "Pharmaceutical residues in the river Rhine—results of a one-decade monitoring programme," *J Environ Monit* **2008**, *10*:664-670. http://www.rsc.org/Publishing/Journals/EM/article.asp?doi=b800701b.

Sacher F, Gabriel S, Metzinger M, and Wenz M. "Pharmaceuticals in ground and surface waters," *CHIMIA* **2003**, *57*(1-2):29-31.

Sacher F, Lange FT, Brauch H-J, and Blankenhorn I. "Pharmaceuticals in groundwaters Analytical methods and results of a monitoring program in Baden-Wurttemberg, Germany," *J Chromatogr A* **2001**, *938*(1-2):199-210. http://www.sciencedirect.com/science/article/B6TG8-443K0BF-5/2/9ba85e137ca5ba6492e45b3c10b908a5.

Sacher F, Lochow E, Bethmann D, and Brauch H-J. "[Occurrence of drugs in surface waters] Vorkommen von arzneimittelwirkstoffen in oberflachenwassern," *Vom Wasser* **1998**, *90*:233.

Sacher F, Raue B, and Brauch HH. "Analysis of iodinated X-ray contrast agents in water samples by ion chromatography and inductively-coupled plasma mass spectrometry," *J Chromatogr A* **2005**, *1085*(1):117-123.

Safe SH. "Endocrine disruptors and human health Is there a problem? An update," *Environ Health Perspect* **2000**, *108*(6):487-491.

Saghir SA, Mendrala AL, Bartels MJ, Day SJ, Hansen SC, Sushynski JM, et al. "Strategies to assess systemic exposure of chemicals in subchronic/chronic diet and drinking water studies," *Toxicol Appl Pharmacol* **2006**, *211*(3):245-260. http://www.sciencedirect.com/science/article/B6WXH-4GP7P2T-2/2/ace8e6e07d5e8575acc3225387a4d54e.

Saier MHJ, Paulsen IT, Sliwinski MK, Pao SS, Skurray RA, and Nikaido H. "Evolutionary origins of multidrug and drug-specific efflux pumps in bacteria," *FASEB J* **1998**, *12*(3):265-274.

Saifi M, Dallal M, Pourshafie M, Eshraghian M, Pourmand M, Salari M, et al. "High Level Resistance of Enterococcus faecium and E. faecalisIsolates from Municipal Sewage Treatment Plants to Gentamicin," *Iranian J Publ Health* **2008**, *37*(1):103-107.

Saito Y, Nojiri M, Imaizumi M, Nakao Y, Morishima Y, Kanehara H, et al. "Polymer-coated synthetic fibers designed for miniaturized sample preparation process," *J Chromatogr A* **2002**, *975*(1):105-112. http://www.sciencedirect.com/science/article/B6TG8-46WW5GC-P/2/29def5996e3a888338ee97ab4fe9aa1a.

Sajewicz M. "Use of densitometric TLC for detection of selected drugs present in river water in south Poland," *J Planar Chromatogr - Modern TLC* **2005**, *18*(102):108-111.

Sakkas VA, Calza P, Medana C, Villioti AE, Baiocchi C, Pelizzetti E, et al. "Heterogeneous photocatalytic degradation of the pharmaceutical agent salbutamol in aqueous titanium dioxide suspensions," *Appl Catalysis B-Environ* **2007**, *77*(1-2):135-144. http://www.cheric.org/research/tech/periodicals/vol_view.php?seq=711311&start=0&number=16&jou rid=31&vol=77&num=1-2&totalcount=24.

Sakkas VA, Giokas DL, Lambropoulou DA, and Albanis TA. "Aqueous photolysis of the sunscreen agent octyl-dimethyl-p-aminobenzoic acid: Formation of disinfection byproducts in chlorinated swimming pool water," *J Chromatogr A* **2003**, *1016*(2):211-222. http://www.sciencedirect.com/science/article/B6TG8-49FR82P-2/2/6363af1fb0be8b62e7ea94c7367a048f.

Salanki J. "Invertebrates in neurotoxicology," Acta Biologica Hungarica 2000, 51(2-4):287-307.

Salem H. "Toxicology of Low-level Exposure: Evidence for Hormesis?," *J Appl Toxicol* **2000**, *20*(2):89. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<89::AID-JAT637>3.0.CO;2-7.

Sales MGF, Reis BF, and Montenegro MCBSM. "Automatic multicommutated flow system for diffusion studies of pharmaceuticals through artificial enteric membrane," *J Pharmaceutical Biomed Anal* **2001**, *26*(1):103-109. http://www.sciencedirect.com/science/article/B6TGX-43F7GBG-D/2/234cb56c8a8d4ae2d4c99ef26625dd4d.

Saljoughian M. "Disposal of Hazardous Pharmaceutical Waste," *US Pharm* **2004**, *29*(6):HS-22-HS-24. http://www.uspharmacist.com/index.asp?show=article&page=8_1296.htm

Salo HM, Hébert N, Dautremepuits C, Cejka P, Cyr DG, and Fournier M. "Effects of Montreal municipal sewage effluents on immune responses of juvenile female rainbow trout (Oncorhynchus mykiss)," *Aqua Toxicol* **2007**, *84*(4):406-414. http://www.sciencedirect.com/science/article/B6T4G-4P3DXY0-5/1/668fd7e1491cea5c052f4016e65f1171.

Salomon M. "Pharmaceuticals in the aquatic environment - The German Environmental Advisory Council: need for action.," *Umweltwissenschaften und Schadstoff-Forschung* **2005**, *17*(1):50-53. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053037695.

Salste L, Leskinen P, Virta M, and Kronberg L. "Determination of estrogens and estrogenic activity in wastewater effluent by chemical analysis and the bioluminescent yeast assay," *Sci Total Environ* **2007**, *378*(3):343-351. http://www.sciencedirect.com/science/article/B6V78-4NG4C12-1/2/e85bd839e3a1b2d763ed8e8650f834d3.

Salte R. "[Drug therapy of fishes - flow of medicaments to consumers and environment]," 118 NJF Seminarium, Pargas, Finland, 1-3 Apr, 1987, 1987, 58-60. http://www.fao.org/agris/search/display.do?f=./1988/v1408/NO880024088.xml;NO880024088.

Salvador A, Moretton C, Piram A, and Faure R. "On-line solid-phase extraction with on-support derivatization for high-sensitivity liquid chromatography tandem mass spectrometry of estrogens in influent/effluent of wastewater treatment plants," *J Chromatogr A* **2007**, *1145*(1-2):102-109. http://www.sciencedirect.com/science/article/B6TG8-4MW321H-1/2/651806f55613d298752b26d4165b52d4.

Salvador J-P, Adrian J, Galve R, Pinacho DG, Kreuzer M, Sánchez-Baeza F, et al. "Analysis of Pharmaceuticals as Environmental Contaminants - Application of bioassays/biosensors for the analysis of pharmaceuticals in environmental samples," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 2.8, http://www.elsevier.com/wps/find/bookdescription.cws home/712147/description#description.

Salvito D. "Comment on "Acute aquatic toxicities of four musk xylene derivatives on Daphnia magna" by A. Behechti, K.-W. Schramm, A. Attar, J. Niederfellner, and A. Kettrup. Wat. Res. 32, 1704-1707," *Wat Res* **2000**, *34*(9):2625-2625. http://www.sciencedirect.com/science/article/B6V73-403175C-11/1/8e360ab39352211c77cd85beac7b8f97.

Salvito D. "Correspondence," *Mar Pollut Bull* **2006**, *52*(10):1316-1317. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V6N-4K4PB1R- 1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=5e3d49e242d3884b6b34e03ed01f6041.

Salvito DT, Senna RJ, and Federle TW. "A framework for prioritizing fragrance materials for aquatic risk assessment," *Environ Toxicol Chem* **2002**, *21*(6):1301-1308. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(2002)021%3C1301%3AAFFPFM%3E2.0.CO%3B2.

Salvito DT, Vey MGH, and Senna RJ. "Fragrance materials and their environmental impact," *Flavour and Fragrance J* **2004**, *19*(2):105-108.

Sam M, Vora S, Malnic B, Ma W, Novotny MV, and Buck LB. "Neuropharmacology: Odorants may arouse instinctive behaviours," *Nature* **2001**, *412*(6843):142-142. http://dx.doi.org/10.1038/35084137.

Sammartino MP, Bellanti F, Castrucci M, Ruiu D, Visco G, and Zoccarato T. "Ecopharmacology: Deliberated or casual dispersion of pharmaceutical principles, phytosanitary, personal health care and veterinary products in environment needs a multivariate analysis or expert systems for the control, the measure and the remediation," *Microchem J* 2008, *88*(2):201-209. http://www.sciencedirect.com/science/article/B6W6H-4RBYD6W-1/2/72f87a345b4d14291fd6b9f7e86d935f.

Samren EB, van Duijn CM, Koch S, Hiilesmaa VK, Klepel H, Bardy AH, et al. "Maternal use of antiepileptic drugs and the risk of major congenital malformations: A joint European prospective study of human teratogenesis associated with maternal epilepsy," *Epilepsia* **1997**, *38*(9):981-990.

Samuelsen OB, Lunestad BT, Husevag B, Holleland T, and Ervik A. "Residues of oxolinic acid in wild fauna following medication in fish farms," *Dis Aquat Org* **1992**, *12*:111-119.

Samuelsson LM, Forlin L, Karlsson G, Adolfsson-Erici M, and Larsson DGJ. "Using NMR metabolomics to identify responses of an environmental estrogen in blood plasma of fish," *Aqua Toxicol* **2006**, *78*(4):341-349. http://www.sciencedirect.com/science/article/B6T4G-4JVK565-3/2/a65e46fe5ae54f678d23195f97ddc97e.

Sanches-Silva A, Sendon-Garcia R, Lopez-Hernandez J, and Paseiro-Losada P. "Determination of triclosan in foodstuffs," *J Separation Sci* **2005**, *28*(1):65-72.

Sanchez MA, Ullman B, Landfear SM, and Carter NS. "Cloning and functional expression of a gene encoding a P1 type nucleoside transporter from Trypanosoma brucei," *J Biological Chem* **1999**, 274:30244-30249.

Sánchez-Bayo F, and Goka K. "Ecological effected of the insecticide imidacloprid and a pollutant from antidandruff shampoo in experimental rice fields," *Environ Toxicol Chem* **2006**, *25*(6):1677-1687.

Sánchez-Polo M, Rivera-Utrilla J, Prados-Joya G, Ferro-García MA, and Bautista-Toledo I. "Removal of pharmaceutical compounds, nitroimidazoles, from waters by using the ozone/carbon system," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4SWN0KJ-1/1/e016cdb63760de4cfb5563be5f248296.

Sanchez-Prado L, Barro R, Garcia-Jares C, Llompart M, Lores M, Petrakis C, et al. "Sonochemical degradation of triclosan in water and wastewater," *Ultrason Sonochem* **2008**, *15*(5):689-694. http://www.ncbi.nlm.nih.gov/pubmed/18321752

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TW3-4RRFNHK-3&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=7894f2aeb4d63d6e7fd12c46718896d9.

Sanchez-Prado L, Llompart M, Lores M, Fernandez-Alvarez M, Garcia-Jares C, and Cela R. "Further research on the photo-SPME of triclosan," *Anal Bioanal Chem* **2006**, *384*(7-8):1548-1557.

Sanchez-Prado L, Llompart M, Lores M, Garcia-Jares C, Bayona JM, and Cela R. "Monitoring the photochemical degradation of triclosan in wastewater by UV light and sunlight using solid-phase microextraction," *Chemosphere* **2006**, *65*(8):1338-1347. http://www.sciencedirect.com/science/article/B6V74-4K3D314-9/2/73889c713a1a6505662a5b9734bc4739.

Sanchez-Prado L, Lores M, Llompart M, Garcia-Jares C, Lourido M, and Cela R. "Further solid-phase microextraction-gas chromatography-mass spectrometry applications: "on-fibre" and aqueous photodegradation of nitro musks," *J Chromatogr A* **2004**, *1048*(1):73-80.

Sanchez-Prado L, Lourido M, Lores M, Llompart M, Garcia-Jares C, and Cela R. "Study of the photoinduced degradation of polycyclic musk compounds by solid-phase microextraction and gas chromatography/mass spectrometry," *Rapid Commun Mass Spectrom* **2004**, *18*(11):1186-1192.

Sandaa R-A, Torsvik VL, and Goksoyr J. "Transferable drug resistance in bacteria from fish-farm sediment," *Can J Microbiol* **1992**, *38*:1061-1065.

Sanders B. "Stress proteins: Potential as multitiered biomarkers," in *Biomarkers of Environ Contamination*, McCarthy JF and Shugart LR, Eds., Lewis Publishers, 1990, 165-191.

Sanders B. "Stress proteins as molecular chaperones: Implications for toxicology," *Environ Health Perspect* **1994**, *102*(6-7):538-540.

Sanders BM. "Stress proteins in aquatic organisms: An environmental perspective," *Crit Rev Toxicol* **1993**, *23*(1):49-75.

Sanders BM, and Dyer SD. "Cellular stress response," Environ Toxicol Chem 1994, 13(8):1209-1210.

Sanderson H. "Comment on 'Co-occurrence of triclocarban and triclosan in US water resources'," *Environ Sci Technol* **2005**, *39*(16):6334. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2005/39/i16/html/es058009u.html.

Sanderson H, Brain RA, Johnson DJ, Wilson CJ, and Solomon KR. "Toxicity classification and evaluation of four pharmaceuticals classes: antibiotics, antineoplastics, cardiovascular, and sex hormones," *Toxicology* **2004**, *203*(1-3):27-40. http://www.sciencedirect.com/science/article/B6TCN-4CRY7FY-2/2/f10f6b351b99643b70edfab80de48ce3.

Sanderson H, Dyer SD, Price BB, Nielsen AM, van Compernolle R, Selby M, et al. "Occurrence and weight-of-evidence risk assessment of alkyl sulfates, alkyl ethoxysulfates, and linear alkylbenzene

sulfonates (LAS) in river water and sediments," *Sci Total Environ* **2006**, *368*(2-3):695-712. http://www.sciencedirect.com/science/article/B6V78-4K606FP-1/2/c94adf43e6cf698006bb7619d4337ca1.

Sanderson H, Ingerslev F, Brain RA, Halling-Sorensen B, Bestari JK, Wilson CJ, et al. "Dissipation of oxytetracycline, chlortetracycline, tetracycline and doxycycline using HPLC-UV and LC/MS/MS under aquatic semi-field microcosm conditions," *Chemosphere* **2005**, *60*(5):619-629.

Sanderson H, Johnson DJ, Reitsma T, Brain RA, Wilson CJ, and Solomon KR. "Ranking and prioritization of environmental risks of pharmaceuticals in surface waters," *Reg Toxicol Pharmacol* **2004**, *39*(2):158-183. http://www.sciencedirect.com/science/article/B6WPT-4BT7F6X-1/2/eed16c84acad91fa265713ff49cbfa3d.

Sanderson H, Johnson DJ, Wilson CJ, Brain RA, and Solomon KR. "Probabilistic hazard assessment of environmentally occurring pharmaceuticals toxicity to fish, daphnids and algae by ECOSAR screening," *Toxicol Lett* **2003**, *144*(3):383-395. http://www.sciencedirect.com/science/article/B6TCR-493HP69-2/2/aa053c5a3b44cd3644d87a4c71b84f2c.

Sanderson H, Laird B, Pope L, Brain R, Wilson C, Johnson D, et al. "Assessment of the environmental fate and effects of ivermectin in aquatic mesocosms," *Aqua Toxicol* **2007**, *85*(4):229-240. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17963854.

Sanderson H, and Thomsen M. "Ecotoxicological quantitative structure-activity relationships for pharmaceuticals," *Bull Environ Contam Toxicol* **2007**, 79:331-335.

Sanderson JT, W. S, J.P. G, and M. VdB. "2-Chloro-s-triazine herbicides induce aromatase (CYP19) activity in H295R human adrenocortical carcinoma cells: A novel mechanism for estrogenicity?," *Toxicol Sci* **2000**, *54*(1):121-127.

Sanderson K. "Drugs on tap as the nights draw in," Chem World 2005, 2(12):13.

Sandstrom MW, Kolpin DW, Thurman EM, and Zaugg SD. "Widespread detection of N,N-diethyl-m-toluamide in US streams: Comparison with concentrations of pesticides, personal care products, and other organic wastewater compounds," *Environ Toxicol Chem* **2005**, *24*(5):1029-1034.

Sangsupan HA, Radcliffe DE, Hartel PG, Jenkins MB, Vencill WK, and Cabrera ML. "Sorption and transport of 17 beta-estradiol and testosterone in undisturbed soil columns," *J Environ Qual* **2006**, *35*(6):2261-2272.

Sanseverino J, Gupta RK, Layton AC, Patterson SS, Ripp SA, Saidak L, et al. "Use of Saccharomyces cerevisiae BLYES expressing bacterial bioluminescence for rapid, sensitive detection of estrogenic compounds," *Appl Environ Microbiol* **2005**, *71*(8):4455-4460.

Santarsiero A, Minelli L, Cutilli D, and Cappiello G. "Hygienic aspects related to burial," *Microchem J* **2000**, *67*(1-3):135-139. http://www.sciencedirect.com/science/article/B6W6H-429RSB9-P/1/a4a8a0761ef83d681faf5b2066fe96e9.

Santiago Valverde R, Sanchez Perez I, Franceschelli F, Martinez Galera M, and Gil Garcia MD. "Determination of photoirradiated tetracyclines in water by high-performance liquid chromatography with chemiluminescence detection based reaction of rhodamine B with cerium (IV)," *Journal of Chromatography A* **2007**, *1167*(1):85-94. http://www.sciencedirect.com/science/article/B6TG8-4PG871S-7/2/8162351ab58aa759e74185e1f5df5552.

Santillo D, and Johnston P. "Effect thresholds and 'adequate control' of risks - The fatal flaws in the EU Council's position on authorisation within REACH," *Environ Sci Pollut Res* **2006**, *13*(6):425-431.

Santoro MIRM, Kassab NM, Singh AK, and Kedor-Hackmam ERM. "Quantitative determination of gatifloxacin, levofloxacin, lomefloxacin and pefloxacin fluoroquinolonic antibiotics in pharmaceutical preparations by high-performance liquid chromatography," *J Pharmaceutical Biomed Anal* **2006**, *40*(1):179-184. http://www.sciencedirect.com/science/article/B6TGX-4GV8T7F-4/2/70b8c0fb65651cc1cd6a12d89a147985.

Santos EM, Paull GC, Van Look KJW, Workman VL, Holt WV, van Aerle R, et al. "Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (Danio rerio)," *Aqua Toxicol* **2007**, *83*(2):134-142. http://www.sciencedirect.com/science/article/B6T4G-4NCR905-2/1/65ad67d49d6909051a8bc793e64b1473.

Santos JL, Aparicio I, and Alonso E. "Occurrence and risk assessment of pharmaceutically active compounds in wastewater treatment plants. A case study: Seville city (Spain)," *Environ Internat* **2007**, *33*(4):596-601. http://www.sciencedirect.com/science/article/B6V7X-4M877GF-1/2/ea391ba6b7fde0c226e7df6aa1423ad3.

Santos JL, Aparicio I, Alonso E, and Callejon M. "Simultaneous determination of pharmaceutically active compounds in wastewater samples by solid phase extraction and high-performance liquid chromatography with diode array and fluorescence detectors," *Anal Chimica Acta* **2005**, *550*(1-2):116-122. http://www.sciencedirect.com/science/article/B6TF4-4GSBGX6-2/2/9bf0551227816f9aea4f48961ae440bb.

Saper RB, Phillips RS, Sehgal A, Khouri N, Davis RB, Paquin J, et al. "Lead, Mercury, and Arsenic in US- and Indian-Manufactured Ayurvedic Medicines Sold via the Internet," *J Am Med Assoc* **2008**, *300*(8):915-923. http://jama.ama-assn.org/cgi/content/abstract/300/8/915.

Sapkota A, Heidler J, and Halden RU. "Detection of triclocarban and two co-contaminating chlorocarbanilides in US aquatic environments using isotope dilution liquid chromatography tandem mass spectrometry," *Environ Res* **2007**, *103*(1):21-29. http://www.sciencedirect.com/science/article/B6WDS-4JWFH4D-1/2/96c5a7bd9d3f0f15ea088868ca5293f5.

Sapkota A, Sapkota AR, Kucharski M, Burke J, McKenzie S, Walker P, et al. "Aquaculture practices and potential human health risks: Current knowledge and future priorities," *Environ Internat* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V7X-4SSP760-1/1/ec8103987ac1abea19bee4da7582557c.

Sapkota AR, Curriero FC, Gibson K, E., and Schwab KJ. "Antibiotic-Resistant Enterococci and Fecal Indicators in Surface Water and Groundwater Impacted by a Concentrated Swine Feeding Operation,"

Environ Health Perspect **2007**, *115*(7):1040-1045. http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pmcentrez&artid=1913567.

Sapkota AR, Lefferts LY, McKenzie S, and Walker P. "What do we feed to food-production animals? A review of animal feed ingredients and their potential impacts on human health," *Environ Health Perspect* **2007**, *115*(5):663-670.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17520050.

SAPS. "Miljöaspekter på läkemedel och läkemedelsförpackningar (Environmental aspects of medicines and packaging of medical products)," 24 april, 1997, pp.

Sarafraz-Yazdi A, Mofazzeli F, and Es'haghi Z. "Directly Suspended Droplet Three Liquid Phase Microextraction of Diclofenac Prior to LC," *Chromatographia* **2008**, *67*(1):49-53. http://dx.doi.org/10.1365/s10337-007-0449-6.

Saravanane R, Murthy DVS, and Krishnaiah K. "Bioaugmentation and treatment of cephalexin drugbased pharmaceutical effluent in an upflow anaerobic fluidized bed system," *Bioresource Technol* **2001**, *76*(3):279-281. http://www.sciencedirect.com/science/article/B6V24-41S4SV6-K/2/ed0ed0d8c1435b8d87e915c3c7ed23ea.

Saravanane R, Murthy DVS, and Krishnaiah K. "Treatment of anti-osmotic drug based pharmaceutical effluent in an upflow anaerobic fluidized bed system," *Waste Management* **2001**, *21*(6):563-568. http://www.sciencedirect.com/science/article/B6VFR-433PB9W-8/2/8f8cf9167911367108995757edeb8c78.

Saravia F, and Frimmel FH. "Role of NOM in the performance of adsorption-membrane hybrid systems applied for the removal of pharmaceuticals," *Desalination* **2008**, *224*(1-3):168-171. http://www.sciencedirect.com/science/article/B6TFX-4RSBPRX-11/1/e43c332db0322b08555eb15ac587e993.

Sarewitz D. "How science makes environmental controversies worse," *Environ Sci Policy* **2004**, 7(5):385-403. http://www.sciencedirect.com/science/article/B6VP6-4D1R86S-1/2/2712dd96aec5ed5c7c735223c4dba6cc.

Sarikaya R, and Yüksel M. "Genotoxic assessment of oxcarbazepine and carbamazepine in drosophila wing spot test," *Food Chem Toxicol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T6P-4SXYG27-2/1/da5caf4fd2736380e5eb6db761759c26.

Sarmah AK, Meyer MT, and Boxall ABA. "A global perspective on the use, sales, exposure pathways, occurrence, fate and effects of veterinary antibiotics (VAs) in the environment," *Chemosphere* **2006**, *65*(5):725-759. http://www.sciencedirect.com/science/article/B6V74-4JW7WNX-1/2/1b72ea05cd97b085dd54aa962d1ee12c.

Sarmah AK, Northcott GL, Leusch FDL, and Tremblay LA. "A survey of endocrine disrupting chemicals (EDCs) in municipal sewage and animal waste effluents in the Waikato region of New Zealand," *Sci Total Environ* **2006**, *355*(1-3):135-144.

Saroglia M, Cecchini S, and Sargolia-Tervoa G. "Review of regulations and monitoring of Italian marine aquaculture," *J Appl Ichthyology-Zeitschrift fur Angewandte Ichthyologie* **2000**, *16*(4-5):182-186.

Sarojini R, Nagabhushanam R, and Fingerman M. "In vivo evaluation of 5-hydroxytryptamine stimulation of the testes in the fiddler crab, Uca pugilator: A presumed action on the neuroendocrine system," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **1993**, *106*(2):321-325. http://www.sciencedirect.com/science/article/B73F4-475TGJ7-C5/2/fe72f6438511d4edf5e12dea12ba0329.

Sarojini R, Nagabhushanam R, and Fingerman M. "Mode of action of the neurotransmitter 5hydroxytryptamine in stimulating ovarian maturation in the red swamp crayfish, Procambarus clarkii: an in vivo and in vitro study," *J Exp Zool* **1995**, *271*:395-400.

Sarter S, Kha Nguyen HN, Hung LT, Lazard J, and Montet D. "Antibiotic resistance in Gram-negative bacteria isolated from farmed catfish," *Food Control* **2007**, *18*(11):1391-1396. http://www.sciencedirect.com/science/article/B6T6S-4MD464P-1/2/e2f36d485d3e02b2de36112fb6cab192.

Sassman SA, and Lee LS. "Sorption of three tetracyclines by several soils: assessing the role of pH and cation exchange," *Environ Sci Technol* **2005**, *39*(19):7452-7459. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i19/abs/es0480217.html.

Sassman SA, Sarmah AK, and Lee LS. "Sorption of tylosin A, D, and A-aldol and degradation of tylosin A in soils," *Environ Toxicol Chem* **2007**, *26*(8):1629-1635. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17702335.

Satinsky D, Neto I, Solich P, Sklenarova H, Conceicao M, Montenegro BSM, et al. "Sequential injection chromatographic determination of paracetamol, caffeine, and acetylsalicylic acid in pharmaceutical tablets," *J Separation Sci* **2004**, *27*:529-536.

Satoh K, Nonaka R, Ohyama K, and Nagai F. "Androgenic and antiandrogenic effects of alkylphenols and parabens assessed using the reporter gene assay with stably transfected CHO-K1 cells (AR-EcoScreen System)," *J Health Sci* **2005**, *51*(5):557-568.

Sattelberger R, Gans O, and Martinex E. "Veterinärantibiotika in wirtschaftsdünger und boden [Veterinarian Antibiotics in Wirtschaftsdunger and Ground]," Wien, 2005, 103 pp. <u>http://www.umweltbundesamt.at/fileadmin/site/publikationen/BE272.pdf</u>.

Sauerborn R, Polancec DS, Zaja R, and Smital T. "Identification of the multidrug resistance-associated protein (mrp) related gene in red mullet (Mullus barbatus)," *Mar Environ Res* **2004**, *58*(2-5):199-204. http://www.sciencedirect.com/science/article/B6V7H-4CB099V-6/2/e4071dac4dc2aa75fd598b49bd14ddc3.

Savarie PJ, York JL, Hurley JC, and Volz S. "Testing the dermal and oral toxicity of selected chemicals to brown treesnakes," Proceedings: Vertebrate Pest Conf, 2000, http://www.aphis.usda.gov/ws/nwrc/is/00pubs/00-66.PDF.

Schafer AI, and Beder S. "Relevance of the precautionary principle in water recycling," *Desalination* **2006**, *187*(1-3):241-252. http://www.sciencedirect.com/science/article/B6TFX-4J444DP-W/2/2767c01281a2314d3ab49954447d31c9.

Schäfer AI, Nghiem LD, and Waite TD. "Removal of the natural hormone estrone from aqueous solutions using nanofiltration and reverse osmosis," *Environ Sci Technol* **2003**, *37*:182-188. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i01/abs/es0102336.html.

Schafers C, Teigeler M, Wenzel A, Maack G, Fenske M, and Segner H. "Concentration- and timedependent effects of the synthetic estrogen, 17 alpha-ethinylestradiol, on reproductive capabilities of the zebrafish, Danio rerio," *J Toxicol Environ Health - Part A - Current Issues* **2007**, *70*(9-10):768-779.

Schallenberg M, and Armstrong A. "Assessment of antibiotic activity in surface water of the lower Taieri Plain and impacts on aquatic bacteria in Lake Waipori, South Otago, New Zealand," *J Marine Freshwater Res* **2004**, *38*(1):19-28.

Scherrer M, and Daschner F. "Practice and problems in the disposal of cytostatic agents," *Onkologie* **1997**, *20*(6):502-507.

Schettler T. "Human exposure to phthalates via consumer products," *Internat J Androl* **2006**, *29*(1 Feb):134-139.

Schettler T. "Toward an Ecological View of Health: An Imperative for the Twenty-First Century," Robert Wood Johnson Foundation, 15.

Scheytt T, Grams S, Rejman-Rasinski E, Heberer T, and Stan H-J. "Pharmaceuticals in groundwater: clofibric acid beneath sewage farms south of Berlin, Germany," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 5, 84-99.

Scheytt T, Mersmann P, Leidig M, Pekdeger A, and Heberer T. "Transport of pharmaceutically active compounds in saturated laboratory columns," *Ground Wat* **2004**, *42*:767-773.

Scheytt T, Mersmann P, Lindstadt R, and Heberer T. "Determination of sorption coefficients of pharmaceutically active substances carbamazepine, diclofenac, and ibuprofen, in sandy sediments," *Chemosphere* **2005**, *60*(2):245-253. http://www.sciencedirect.com/science/article/B6V74-4FDMY9X-H/2/4b5bed748206f28ebbc5dbf4961059fb.

Scheytt TJ, Mersmann P, and Heberer T. "Mobility of pharmaceuticals carbamazepine, diclofenac, ibuprofen, and propyphenazone in miscible-displacement experiments," *J Contam Hydrol* **2006**, *83*(1-2):53-69. http://www.sciencedirect.com/science/article/B6V94-4HTCT75-1/1/6bac6aa161206859c2e0521b96d5e6ad.

Schiermeier Q. "Studies assess risks of drugs in water cycle," *Nature* **2003**, *424*(6944):5-5. http://dx.doi.org/10.1038/424005a.

Schiffer B, Daxenberger A, Meyer K, and Meyer HHD. "The fate of trenbolone acetate and melengestrol acetate after application as growth promoters in cattle: Environmental studies," *Environ Health Perspect* **2001**, *109*(11):1145-1151.

Schiffer B, Totsche KU, Jann S, Kogel-Knabner I, Meyer K, and Meyer HHD. "Mobility of the growth promoters trenbolone and melengestrol acetate in agricultural soil: column studies," *Sci Total Environ* **2004**, *326*(1-3):225-237. http://www.sciencedirect.com/science/article/B6V78-4C2R3PS-1/2/7e67fd789afbbcdf1f299fa329b374bb.

Schirmer K, Bopp S, and Gehrhardt J. "Ecotoxicology and biomonitoring," in *Comprehensive Analytical Chemistry* Barcelo D, Ed., Elsevier; Series Vol 48, 2007, Chapter 17, 393-406. http://books.google.com/books?hl=en&lr=&id=A3MxOboEY3AC&oi=fnd&pg=PA393&dq=fick+pha rmaceuticals+fish+exposure&ots=FwjEnoD-UU&sig=c2RiL4GBi-yJBh5e9itut41FNCE.

Schirmer K, and Schirmer M. "Who is chasing whom? A call for a more integrated approach to reduce the load of micro-pollutants in the environment," *Water Sci Technol* **2008**, *57*(1):145-150.

Schittko S, Putschew A, and Jekel M. "Bank filtration: a suitable process for the removal of iodinated X-ray contrast media?," *Wat Sci Technol* **2004**, *50*(5):261-268.

Schlenk D. "Are steroids really the cause for fish feminization? A mini-review of in vitro and in vivo guided TIEs," *Mar Pollut Bull* **2008**, *57*(6-12):250-254. http://www.sciencedirect.com/science/article/B6V6N-4RWBD29-6/2/8c280ca533fa688246ca110188f83321.

Schlenk D, Sapozhnikova Y, Irwin MA, Xie L, Hwang W, Reddy S, et al. "In vivo bioassay-guided fractionation of marine sediment extracts from the southern California Bight, USA, for estrogenic activity," *Environ Toxicol Chem* **2005**, *24*(11):2820-2826.

Schlenker G, Birkelbach C, and Glatzel PS. "Analysis of influence of temperature on the stability of sexual steroids in faeces of cows," *Berliner und Munchener Tierarztliche Wochenschrift* **1999**, *112*(12):459-464.

Schlenker G, and Muller W. "Contamination of environment by pharmaceuticals and its connected hazards," *Tierarztliche Umschau* **2001**, *56*(10):538-+.

Schlenker G, Muller W, Birkelbach C, and Glatzel PS. "Experimental investigations into influence of Escherichia coli and Clostridium perfringens on the steroid estrone," *Berliner und Munchener Tierarztliche Wochenschrift* **1999**, *112*(1):14-17.

Schlueter A, Szuepanowski R, Kurz N, Schneiker S, Krahn I, and Puehler A. "Erythromycin resistance-conferring plasmid pRSB105, isolated from a sewage treatment plant, harbors a new macrolide resistance determinant, an integron-containing Tn402-like element, and a large region of unknown function," *Appl Environ Microbiol* **2007**, *73*(6):1952-1960. http://aem.asm.org/cgi/reprint/73/6/1952.pdf.

Schlumpf M, Cotton B, Conscience M, Haller V, Steinmann B, and Lichtensteiger W. "In vitro and in vivo estrogenicity of UV screens," *Environ Health Perspect* **2001**, *109*(3):239-244. http://ehpnet1.niehs.nih.gov/docs/2001/109p239-244schlumpf/abstract.html. Schlumpf M, Durrer S, Faass O, Ehnes C, Fuetsch M, Gaille C, et al. "Developmental toxicity of UV filters and environmental exposure: a review," *Internat J Androl* **2008**, *31*(2):144-151. http://dx.doi.org/10.1111/j.1365-2605.2007.00856.x.

Schlumpf M, Kypke K, Vot C, Birchler M, Durrer S, Faass O, et al. "Endocrine active UV filters: Developmental toxicity and exposure through breast milk," *CHIMIA* **2008**, *62*(5):345-351. http://www.ingentaconnect.com/content/scs/chimia/2008/00000062/00000005/art00007;jsessionid=2jv fxe0vt5fve.alexandra?format=print.

Schlüsener M, Loffler D, and Ternes T. "List of relevant PPs," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 63 pp. http://www.knappe-eu.org/fichiers/44-Knappe%20D1.1%20List%20of%20the%20relevant%20PPs.pdf.

Schlüsener MP. "Fate, pathways and methods for the determination of selected antibiotics and steroid hormones in the environment," Doctoral Dissertation, University of Duisburg-Essen, 2006. pp.

Schlusener MP, and Bester K. "Determination of steroid hormones, hormone conjugates and macrolide antibiotics in influents and effluents of sewage treatment plants utilising high-performance liquid chromatography/tandem mass spectrometry with electrospray and atmospheric pressure chemical ionization," *Rapid Commun Mass Spectrom* **2005**, *19*(22):3269-3278.

Schlusener MP, and Bester K. "Persistence of antibiotics such as macrolides, tiamulin and salinomycin in soil," *Environ Pollut* **2006**, *143*(3):565-571. http://www.sciencedirect.com/science/article/B6VB5-4J624TD-1/2/d20824d9434f3c35dd09e8e1a8eb8660.

Schlusener MP, Bester K, and Spiteller M. "Determination of antibiotics such as macrolides, ionophores and tiamulin in liquid manure by HPLC-MS/MS," *Anal Bioanal Chem* **2003**, *375*(7):942-947.

Schlusener MP, Spiteller M, and Bester K. "Determination of antibiotics from soil by pressurized liquid extraction and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* 2003, *1003*(1-2):21-28. http://www.sciencedirect.com/science/article/B6TG8-48PDCKK-4/2/62bb0bd9fd116898b352f57aa41a79d0.

Schlüsener MP, von Arb MA, and Bester K. "Elimination of macrolides, tiamulin, and salinomycin during manure storage," *Arch Environ Contam Toxicol* **2006**, *51*(1):21-28.

Schmeiser HH, Gminski R, and Mersch-Sundermann V. "Evaluation of health risks caused by musk ketone," *Internat J Hygiene Environ Health* **2001**, *203*(4):293-299.

Schmid P, Kohler M, Gujer E, Zennegg M, and Lanfranchi M. "Persistent organic pollutants, brominated flame retardants and synthetic musks in fish from remote alpine lakes in Switzerland," *Chemosphere* **2007**, *67*(9):S16-21.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17207835.

Schmid T, Gonzalez-Valero J, Rufli H, and Dietrich DR. "Determination of vitellogenin kinetics in male fathead minnows (Pimephales promelas)," *Toxicol Lett* **2002**, *131*(1-2):65-74.

http://www.sciencedirect.com/science/article/B6TCR-45C1T7R-3/2/340b7c104075f3e5d28e62b42bd2fa3d.

Schmidt AH. "Validated HPLC method for the determination of residues of acetaminophen, caffeine, and codeine phosphate on swabs collected from pharmaceutical manufacturing equipment in support of cleaning validation," *J Liquid Chromatogr Related Technol* **2006**, *29*:1663-1673.

Schmidt AS, Bruun MS, Dalsgaard I, Pedersen K, and Larsen JL. "Occurrence of antimicrobial resistance in fish-pathogenic and environmental bacteria associated with four Danish rainbow trout farms "*Appl Environ Microbiol* **2000**, *66*:4908-+.

Schmidt CK, Fleig M, Sacher F, and Brauch H-J. "Occurrence of aminopolycarboxylates in the aquatic environment of Germany," *Environ Pollut* **2004**, *131*(1):107-124. http://www.sciencedirect.com/science/article/B6VB5-4CG0RSG-8/2/5b95a0930173cdfbff4d914d6088f2cf.

Schmidt-Bäumler K, Heberer T, and Stan H-J. "Occurrence and Distribution of Organic Contaminants in the Aquatic System in Berlin. Part II: Substituted Phenols in Berlin Surface Water," *Acta Hydrochim Hydrobiol* **1999**, *27*(3):143-149.

Schmitt C, Oetken M, Dittberner O, Wagner M, and Oehlmann J. "Endocrine modulation and toxic effects of two commonly used UV screens on the aquatic invertebrates Potamopyrgus antipodarum and Lumbriculus variegatus," *Environ Pollut* **2008**, *152*(2):322-329. http://www.sciencedirect.com/science/article/B6VB5-4PB166V-1/1/c33a8f502a2b0df80bc05f56f25ea69f.

Schmitt H. "The effects of veterinary antibiotics on soil microbial communities," Universiteit Utrecht, Faculteit Biologie, IRAS, 2005. 187 pp. http://igitur-archive.library.uu.nl/dissertations/2005-0616-200013/index.htm

Schmitt H, Haapakangas H, and van Beelen P. "Effects of antibiotics on soil microorganisms: time and nutrients influence pollution-induced community tolerance," *Soil Biol Biochem* **2005**, *37*(10):1882-1892. http://www.sciencedirect.com/science/article/B6TC7-4FRKT1V-4/2/ca56a5384e05ec4fd9e5c377a30ecc52.

Schmitt H, Stoob K, Hamscher G, Smit E, and Seinen W. "Tetracyclines and tetracycline resistance in agricultural soils: Microcosm and field studies," *Microbial Ecol* **2006**, *51*(3):267-276.

Schmitt H, Van Beelen P, Tolls J, and Van Leeuwen CL. "Pollution-induced community tolerance of soil microbial communities caused by the antibiotic sulfachloropyridazine," *Environ Sci Technol* **2004**, *38*(4):1148-1153. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i04/abs/es034685p.html.

Schmitt-Jansen M, Bartels P, Adler N, and Altenburger RPaodaipp. "Phytotoxicity assessment of diclofenac and its phototransformation products," *Anal Bioanal Chem* **2007**, *387*(4):1389-1396.

Schnaitman CA. "Phage biology: Coming of age," Science 2002, 298:2329.

Schneider C. "Synthetische organische Spurenstoffe in der aquatischen Umwelt und ihr Verhalten im Klärprozess [Synthetic organic trace substances in the aquatic environment and their behaviour in wastewater treatment plants]," Doctoral Dissertation, Universität Stuttgart / Fakultät Bauingenieurund Umweltingenieurwissenschaften. Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, 2005. pp. http://elib.uni-stuttgart.de/opus/volltexte/2006/2575.

Schneider C, Scholer HF, and Schneider RJ. "A novel enzyme-linked immunosorbent assay for ethynylestradiol using a long-chain biotinylated EE2 derivative," *Steroids* **2004**, *69*(4):245-253.

Schneider MJ, Braden SE, Reyes-Herrera I, and Donoghue DJ. "Simultaneous determination of fluoroquinolones and tetracyclines in chicken muscle using HPLC with fluorescence detection," *J Chromatogr B: Biomed Sci Applications* **2007**, *846*(1-2):8-13. http://www.sciencedirect.com/science/article/B6X0P-4KPX8X6-B/2/1f89ba8c02115d1b15297409c6867a0e.

Schneider MJ, Darwish AM, and Freeman DW. "Simultaneous multiresidue determination of tetracyclines and fluoroquinolones in catfish muscle using high performance liquid chromatography with fluorescence detection," *Anal Chimica Acta* **2007**, *586*(1-2):269-274. http://www.sciencedirect.com/science/article/B6TF4-4KXNT47-4/2/edbedf6717eb4019b6061bca7921a359.

Schneider MJ, Vazquez-Moreno L, Bermudez-Almada MD, Guardado RB, and Ortega-Nieblas M. "Multiresidue determination of fluoroquinolones in shrimp by liquid chromatography-fluorescencemass spectrometry," *J AOAC Internat* **2005**, *88*(4):1160-1166.

Schneider MK, Stamm C, and Fenner K. "A simple scoring system to identify exposure scenarios for veterinary medicines at the European level," Office for Official Publications of the European Communities, Pistocchi A, Ed., Luxembourg, 2006, pp.

Schneider MK, Stamm C, and Fenner K. "Selecting scenarios to assess exposure of surface waters to veterinary medicines in Europe," *Environ Sci Technol* **2007**, *41*(13):4669-4676. http://pubs.acs.org/cgi-bin/asap.cgi/esthag/asap/pdf/es062486a.pdf.

Schoenfuss HL, Bartell SE, Bistodeau TB, Cediel RA, Grove KJ, Zintek L, et al. "Impairment of the reproductive potential of male fathead minnows by environmentally relevant exposures to 4-nonylphenolf," *Aqua Toxicol* **2008**, *86*(1):91-98. http://www.sciencedirect.com/science/article/B6T4G-4PWF0FX-3/2/d173bd4467e7580c2ed4241f3cc28d2d.

Scholz NL, Truelove NK, French BL, Berejikian BA, Quinn TP, Casillas E, et al. "Diazinon disrupts antipredator and homing behaviors in chinook salmon (Oncorhynchus tsawytscha)," *Canadian J Fish Aquat Sci* **2000**, *57*(9):1911-1918.

Scholz S, and Gutzeit HO. "17-α-ethinylestradiol affects reproduction, sexual differentiation and aromatase gene expression of the medaka (Oryzias latipes)," *Aqua Toxicol* **2000**, *50*(4):363-373. http://www.ingentaconnect.com/content/els/0166445x/2000/00000050/00000004/art00090 http://dx.doi.org/10.1016/S0166-445X(00)00090-4.

Schoof RA, and Houkal D. "The evolving science of chemical risk assessment for land-applied biosolids," *J Environ Qual* **2005**, *34*:114-121.

Schowanek D, David H, Francaviglia R, Hall J, Kirchmann H, Krogh PH, et al. "Probabilistic risk assessment for linear alkylbenzene sulfonate (LAS) in sewage sludge used on agricultural soil," *Regulatory Toxicol Pharmacol* **2007**, *49*(3):245-259.

Schowanek D, and Webb S. "Exposure simulation for pharmaceuticals in European surface waters with GREAT-ER," *Toxicol Lett* **2002**, *131*(1-2):39-50.

Schrab GE, Brown KW, and Donnelly KC. "Acute and genetic toxicity of municipal landfill leachate," *Wat Air Soil Pollut* **1993**, *69*(1-2):99-112. http://www.springerlink.com/content/m85l616180t4j470/.

Schrag SJ, and Perrot V. "Reducing antibiotic resistance," *Nature* **1996**, *381*(6578):120-121. http://dx.doi.org/10.1038/381120b0.

Schramm C, Gans O, Uhl M, Grath J, Scharf S, Zieritz I, et al. "Carbamazepin und koffein – potenzielle screening parameter für verunreinigungen des grundwassers durch kommunales abwasser? [Carbamazepine and koffein - potential screening parameter for impurities of the groundwater through local waste water?]," REP-0061, Wien, 2006, pp. http://www.umweltbundesamt.at/fileadmin/site/publikationen/REP0061.pdf.

Schramm KW, Kaune A, Beck B, Thumm W, Behechti A, Kettrup A, et al. "Acute toxicities of 5 nitromusk compounds in daphnia, alfae and photoluminescent bacteria," *Wat Res* **1996**, *30*(10):2247-2250.

Schrapo SM, Rijs GBJ, Beek MA, Maaskant JFN, Staeb J, Stroomberg G, et al. "Humane en veterinaire geneesmiddelen in Nederlands oppervlaktewater en afvalwater," Directoraat-Generall Rijkswaterstaat, RIZA rapport 2003.023, 2002, pp. http://www.riza.nl/publicaties/riza_rapporten/pdf_rapport/rr_2003_023.pdf.

Schreer A. "Application of rainbow trout hepatocyte cultures to study gene expression due to estrogenic compounds," Doctoral Dissertation, Dresden, Germany, 2005. 120 pp. http://www.ufz.de/data/diss_02_20052855.pdf.

Schreiber F, and Szewzyk U. "Environmentally Relevant Concentrations of Pharmaceuticals Influence the Initial Adhesion of Bacteria," *Aqua Toxicol* **2008**, *87*(4):227-233. http://www.sciencedirect.com/science/article/B6T4G-4RV7Y6W-2/2/02c24f800277a04e2c0b05f3b5f90cae.

Schreiber IM, and Mitch WA. "Occurrence and fate of nitrosamines and nitrosamine precursors in wastewater-impacted surface waters using boron as a conservative tracer," *Environ Sci Technol* **2006**, *40*(10):3203-3210. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i10/html/es052078r.html.

Schreurs RHMM, Legler J, Artola-Garicano E, Sinnige TL, Lanser PH, Seinen W, et al. "In vitro and in vivo antiestrogenic effects of polycyclic musks in zebrafish," *Environ Sci Technol* **2004**, *38*(4):997-1002. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i04/abs/es034648y.html.

Schreurs RHMM, Quaedackers ME, Seinen W, and van der Burg B. "Transcriptional Activation of Estrogen Receptor ER[alpha] and ER[beta] by Polycyclic Musks Is Cell Type Dependent," *Toxicol*

Appl Pharmacol **2002**, *183*(1):1-9. http://www.sciencedirect.com/science/article/B6WXH-46P4164-1/2/e13680801221fe98abaddc790acbd3d5.

Schreurs RHMM, Sonneveld E, Janse JHJ, Seinen W, and van der Burg B. "Interaction of polycyclic musks and UV filters with the estrogen receptor (ER), androgen receptor (AR) and progesterone receptor (PR) in reporter gene bioassays," *Toxicol Sci* **2005**, *83*(2):264-272. http://toxsci.oupjournals.org/cgi/content/abstract/kfi035v1 or http://toxsci.oupjournals.org/cgi/reprint/kfi035v1.

Schreurs RHMM, Sonneveld E, van der Saag PT, van der Burg B, and Seinen W. "Examination of the in vitro (anti)estrogenic, (anti)androgenic and (anti)dioxin-like activities of tetralin, indane and isochroman derivatives using receptor-specific bioassays," *Toxicol Lett* **2005**, *156*(2):261-275. http://www.sciencedirect.com/science/article/B6TCR-4F65K6Y-1/2/ebf22ff6ab4d0ef908b51d82d1c4fd53.

Schroder HF. "Substance-specific detection and pursuit of non-eliminable compounds during biological treatment of waste water from the pharmaceutical industry," *Waste Management* **1999**, *19*(2):111-123. http://www.sciencedirect.com/science/article/B6VFR-3W6F5X5-4/2/4de492c5df7f5c287b370e6f9464ecfd.

Schröder P, Navarro-Aviñó J, Azaizeh H, Goldhirsh A, DiGregorio S, Komives T, et al. "Using phytoremediation technologies to upgrade waste water treatment in Europe," *Environ Sci Pollut Res* **2007**, *14*(7):490-497. http://dx.doi.org/10.1065/espr2006.12.373.

Schuetze A, Heberer T, and Juergensen S. "Occurrence of residues of the veterinary drug malachite green in eels caught downstream from municipal sewage treatment plants," *Chemosphere* **2008**, 72(11):1664-1670. http://www.sciencedirect.com/science/article/B6V74-4SWXDCC-3/1/cc85d8a297a01011b0a23824247ad439.

Schulman LJ, Sargent EV, Naumann BD, Faria EC, Dolan DG, and Wargo JP. "A Human Health Risk Assessment of Pharmaceuticals in the Aquatic Environment," *Human Ecolog Risk Assess* **2002**, *8*(4):657-680. http://www.sciencedirect.com/science/article/B6WRP-466PSFM-3/2/8daf95cd584114b5afe769a2651824c8.

Schulte-Oehlmann U, Albanis T, Allera A, Bachmann J, Berntsson P, Beresford N, et al. "Comprendo: Focus and approach," *Environ Health Perspect* **2006**, *114*(1):98-100.

Schulte-Oehlmann U, Oetken M, Bachmann J, and Oehlmann J. "Effects of ethinyloestradiol and methyltestosterone in prosobranch snails," in *Pharmaceuticals in the environment: Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 19, 233-247.

Schultz IR, Skillman A, Nicolas JM, Cyr DG, and Nagler JJ. "Short-term exposure to 17αethynylestradiol decreases the fertility of sexually maturing male rainbow trout (Oncorhynchus mykiss)," *Environ Toxicol Chem* **2003**, 22(6):1272-1280. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F1551-5028(2003)022%3C1272%3ASTETED%3E2.0.CO%3B2. Schultz MM, and Furlong ET. "Trace analysis of antidepressant pharmaceuticals and their select degradates in aquatic matrixes by LC/ESI/MS/MS," *Anal Chem* **2008**, *80*(5):1756-1762. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac702154e.

Schulz RW, Bogerd J, Male R, Ball J, Fenske M, Olsen LC, et al. "Estrogen-Induced Alterations in amh and dmrt1 Expression Signal for Disruption in Male Sexual Development in the Zebrafish," *Environ Sci Technol* **2007**, *41*(17):6305-6310. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es070785+.

Schulze C, and Matthies M. "Georeferenced aquatic fate simulation of cleaning agent and detergent ingredients in the river Rur catchment (Germany)," *Sci Total Environ* **2001**, *280*(1-3):55-77. http://www.sciencedirect.com/science/article/B6V78-44C86BN-5/1/7ee03aca753a31d13afd74ed55558a0f.

Schuring J. "Prescription drug repository program/tax credit," 124th Ohio General Assembly, 2001. http://www.legislature.state.oh.us/bills.cfm?ID=124_HB_221.

Schussler W, and Nitschke L. "Determination of trace amounts of Galaxolide (R) (HHCB) by HPLC," *Fres J Anal Chem* **1998**, *361*:220-221.

Schwab BW, Hayes EP, Fiori JM, Mastrocco FJ, Roden NM, Cragin D, et al. "Human pharmaceuticals in US surface waters: A human health risk assessment," *Reg Toxicol Pharmacol* **2005**, *42*(3):296-312. http://www.sciencedirect.com/science/article/B6WPT-4GG2JFH-2/2/dbbf36fc44c34cf41cf2e9461b64f963.

Schwaiger J, Ferling H, Mallow U, Wintermayr H, and Negele RD. "Toxic effects of the non-steroidal anti-inflammatory drug diclofenac: Part I: histopathological alterations and bioaccumulation in rainbow trout," *Aqua Toxicol* **2004**, *68*(2):141-150. http://www.sciencedirect.com/science/article/B6T4G-4CB0M33-4/2/75970a75d0571d7ccdfeb7bcbad0cc61.

Schwartz DL. "Environmental pollution in Latin America: The case of Puerto Rico - Pharmaceuticals and the water crisis," *Latino Studies J* **1996**, *7*(1):95-96.

Schwartz S, Berding V, and Matthies M. "Umweltexpositionsabschätzung des polycyclischen Moschus-Duftstoffes HHCP – Szenarienanalyse mit EUSES," *Umweltmed Forsc Prax* **1999**, 4:7-11.

Schwartz S, Berding V, and Matthies M. "Aquatic fate assessment of the polycyclic musk fragrance HHCB: Scenario and variability analysis in accordance with the EU risk assessment guidelines," *Chemosphere* **2000**, *41*(5):671-679. http://www.sciencedirect.com/science/article/B6V74-40315SX-9/2/8b4e7a0974c98c6b15680d6bdb6e1fe4.

Schwartz T, Kohnen W, Jansen B, and Obst U. "Detection of antibiotic-resistant bacteria and their resistance genes in wastewater, surface water, and drinking water biofilms," *FEM Microbiol Ecol* **2003**, *43*(3):325-335. http://www.sciencedirect.com/science/article/B6T2V-478YX14-2/2/4f9c1430c11b9d2f9d6e47707cbe3188.

Schwartz T, Volkmann H, Kirchen S, Kohnen W, Schon-Holz K, Jansen B, et al. "Real-time PCR detection of Pseudomonas aeruginosa in clinical and municipal wastewater and genotyping of the ciprofloxacin-resistant isolates," *FEM Microbiol Ecol* **2006**, *57*(1):158-167.

Schwarzbauer J, Heim S, Brinker S, and Littke R. "Occurrence and alteration of organic contaminants in seepage and leakage water from a waste deposit landfill," *Wat Res* **2002**, *36*(9):2275-2287. http://www.sciencedirect.com/science/article/B6V73-44GDXYV-B/2/6f1664f5876ca17c6a201aa1a74830ad.

Schwarzenbach RP, Escher BI, Fenner K, Hofstetter TB, Johnson CA, von Gunten U, et al. "The challenge of micropollutants in aquatic systems," *Science* **2006**, *313*(5790):1072-1077.

SCORxE "South Carolina Medicaid Academic Detailing Program," South Caroling College of Pharmacy http://www.sccp.sc.edu/SCORxE/index.aspx.

Scott AP, Katsiadaki I, Kirby MF, and Thain J. "Relationship between sex steroid and vitellogenin concentrations in flounder (Platichthys flesus) sampled from an estuary contaminated with estrogenic endocrine-disrupting compounds," *Environ Health Perspect* **2006**, *114*(supp 1):27-31.

Scott AP, Sanders M, Stentiford GD, Reese RA, and Katsiadaki I. "Evidence for estrogenic endocrine disruption in an offshore flatfish, the dab (Limanda limanda L.)," *Mar Environ Res* **2007**, *64*(2):128-148. http://www.sciencedirect.com/science/article/B6V7H-4MSPV4D-1/1/fbe721bebae54dfa3dc8ca9acb68493e.

Scott GR, and Sloman KA. "The effects of environmental pollutants on complex fish behaviour: integrating behavioural and physiological indicators of toxicity," *Aqua Toxicol* **2004**, *68*(4):369-392. http://www.sciencedirect.com/science/article/B6T4G-4CB0M33-2/2/b7fafe6eab38c29c1b2f6a25cf585e5e.

Scott J, Beydoun D, Amal R, Low G, and Cattle J. "Landfill management, leachate generation, and leach testing of solid wastes in Australia and overseas," *Crit Rev Environ Sci Technol* **2005**, *35*(3):239-332.

Scott Teeter J, and Meyerhoff RD. "Aerobic degradation of tylosin in cattle, chicken, and swine excreta," *Environ Res* **2003**, *93*(1):45-51. http://www.sciencedirect.com/science/article/B6WDS-487KHRH-1/2/4df180901528839d5da4382fbc04c7f3.

Sczesny S, Hamscher G, Hoper H, and Nau H. "Veterinary drugs in the environment: Detection of tetracyclines by HPLC coupled with a microbiological assay and tandem mass spectrometry," *Naunyn-Schmiedebergs Arch Pharmacol* **2001**, *363*(4, S April):R170-R170.

Sczesny S, Nau H, and Hamscher G. "Residue analysis of Tetracyclines and their metabolites in eggs and in the environment by HPLC coupled with a microbiological assay and tandem mass spectrometry," *J Agric Food Chem* **2003**, *51*(3):697-703.

Sebastine IM, and Wakeman RJ. "Consumption and environmental hazards of pharmaceutical substances in the UK.," *rans IChemE* **2003**, *81*(B4):229-235. http://www.atypon-link.com/ICE/doi/abs/10.1205/095758203322299743.

Sebok A, Vasanits-Zsigrai A, Palko G, Zaray G, and Molnar-Perl I. "Identification and quantification of ibuprofen, naproxen, ketoprofen and diclofenac present in waste-waters, as their trimethylsilyl derivatives, by gas chromatography mass spectrometry," *Talanta* **2008**, *76*(3):642-650. http://www.ncbi.nlm.nih.gov/sites/entrez?Db=PubMed&Cmd=ShowDetailView&TermToSearch=185 85333&ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDoc Sum.

Secchi S, and Babcock BA. "Pearls before swine? Potential trade-offs between the human and animal use of antibiotics," *Am J Agric Econ* **2002**, *84*(5):1279-1286.

Sedlak DL. "Selected list of publications," http://www.ce.berkeley.edu/~sedlak/.

Sedlak DL, Gray JL, and Pinkston KE. "Understanding micro contaminants in recycled water," *Environ Sci Technol* **2000**, *34*(23):A509-A515.

http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=4870576&q=auth or%3A%22Sedlak%22+intitle%3A%22Understanding+Micro+Contaminants+in+Recycled+Water%2 2+&uid=792698393&setcookie=yes.

Sedlak DL, and Huang C-H. "Strategies for selecting pharmaceuticals to assess attenuation during indirect potable water reuse," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter8, 107-118. http://www.cplbookshop.com/contents/C772.htm.

Sedlak DL, Pinkston K, Huang C-H, AWWA Research Foundation, and WateResuse Foundation. "Occurrence Survey of Pharmaceutically Active Compounds " 2005, 82 pp. http://books.google.com/books?id=scON36tXJJEC&dq=sewage+Betamethasone+&lr=&source=gbs_s ummary s&cad=0.

Sedlak DL, Pinkston KE, Gray JL, and Kolodziej EP. "Approaches for quantifying the attenuation of wastewater-derived contaminants in the aquatic environment," *CHIMIA* **2003**, *57*(9):567-569.

Seebeck T, Gong KW, Kunz S, Schaub R, Shalaby T, and Zoraghi R. "cAMP signalling in Trypanosoma brucei," *Internat J Parasitol* **2001**, *31*:491-498.

Seed SM, Jarvis CI, Sullivan KM, Silva MA, and Tataronis GR. "Assessing the effect of a brief educational intervention on pharmacists' and pharmacy students' attitudes and knowledge regarding medicine disposal," The 134th Annual Meeting & Exposition of APHA Environment Section Poster Session IV, http://apha.confex.com/apha/134am/techprogram/paper_135061.htm.

Seehusen DA, and Edwards J. "Patient Practices and Beliefs Concerning Disposal of Medications," *J Am Board Fam Med* **2006**, *19*(6):542-547. http://www.jabfm.org/cgi/content/abstract/19/6/542.

Segner H. "Developmental, reproductive, and demographic alterations in aquatic wildlife: Establishing causality between exposure to endocrine-active compounds (EACs) and effects," *Acta Hydrochim Hydrobiol* **2005**, *33*:17-26.

Segner H. "Comment on 'Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment'," *Environ Sci Technol* **2006**, *40*(3):1084-1085. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i03/html/es051791d.html.

Segner H, Caroll K, Fenske M, Janssen CR, Maack G, Pascoe D, et al. "Identification of endocrinedisrupting effects in aquatic vertebrates and invertebrates: report from the European IDEA project," *Ecotoxicol Environ Safety* **2003**, *54*(3):302-314. <Go to ISI>://CCC:000181976400007.

Segner H, Chesné C, Cravedi J-P, Fauconneau B, Houlihan D, LeGac F, et al. "Cellular approaches for diagnostic effects assessment in ecotoxicology: introductory remarks to an EU-funded project," *Aqua Toxicol* **2001**, *53*(3-4):153-158. http://www.sciencedirect.com/science/article/B6T4G-4379NC0-1/1/41606481fef88ad86b1b974bb15f282e.

Segner H, Navas JM, Schäfers C, and Wenzel A. "Potencies of estrogenic compounds in in vitro screening assays and in life cycle tests with zebrafish in vivo," *Ecotoxicol Environ Safety* **2003**, *54*(3):315-322. http://www.sciencedirect.com/science/article/B6WDM-47HJXNT-1/1/d7083f7bd6bd7cdf836e5358ce94a3e7.

Segura M, Ortuño J, Farré M, Pacifici R, Pichini S, Joglar J, et al. "Quantitative determination of paroxetine and its 4-hydroxy-3-methoxy metabolite in plasma by high-performance liquid chromatography/electrospray ion trap mass spectrometry: application to pharmacokinetic studies," *Rapid Commun Mass Spectrom* **2003**, *17*(3):1455-1461.

Segura M, Roura L, de la Torre R, and Joglar J. "Synthesis of the major metabolites of Paroxetine," *Bioorganic Chem* **2003**, *31*(3):248-258. http://www.sciencedirect.com/science/article/B6WBT-48PKYYH-3/2/f5b65fda7b4f3deb5c4ec9c8b0764056.

Segura PA, Gagnon C, and Sauve S. "A fully automated on-line preconcentration and liquid chromatography-tandem mass spectrometry method for the analysis of anti-infectives in wastewaters," *Anal Chim Acta* **2007**, *604*(2):147-157. http://www.sciencedirect.com/science/article/B6TF4-4PVPVT3-1/2/0f02fe0314964b2413297102aae4c264.

Segura PA, Garcia-Ac A, Lajeunesse A, Ghosh D, Gagnon C, and Sauve S. "Determination of six antiinfectives in wastewater using tandem solidphase extraction and liquid chromatography-tandem mass spectrometry," *J Environ Monit* **2007**, *9*(4):307-313.

Seidlova-Wuttke D, Jarry H, Christoffel J, Rimoldi G, and Wuttke W. "Comparison of effects of estradiol (E2) with those of octylmethoxycinnamate (OMC) and 4-methylbenzylidene camphor (4MBC) -- 2 filters of UV light - on several uterine, vaginal and bone parameters," *Toxicol Appl Pharmacol* **2006**, *210*(3):246-254. http://www.sciencedirect.com/science/article/B6WXH-4GGWG75-2/2/a1a21c10d5776e6b7d7307d307bd5a42.

Seifrtová M, Pena A, Lino C, and Solich P. "Determination of fluoroquinolone antibiotics in hospital and municipal wastewaters in Coimbra by liquid chromatography with a monolithic column and fluorescence detection," *Anal Bioanal Chem* **2008**, *391*(3):799-805. http://dx.doi.org/10.1007/s00216-008-2020-1.

Seiler JP. "Pharmacodynamic activity of drugs and ecotoxicology--can the two be connected?," *Toxicol Lett* **2002**, *131*(1-2):105-115. http://www.sciencedirect.com/science/article/B6TCR-45CNC4S-1/2/711baf08177042f625f1104a3f6af5fd.

Seiler RL, Zaugg SD, Thomas JM, and Howcroft DL. "Caffeine and pharmaceuticals as indicators of waste water contamination in wells," *Ground Wat* **1999**, *37*(3):405-410. http://grande.nal.usda.gov/ibids/index.php?mode2=detail&origin=ibids_references&therow=672352.

Seino A, Furusho S, and Masunaga S. "Occurrence of Pharmaceuticals Used in Human and Veterinary Medicine in Aquatic Environments in Japan," *J Japan Soc Wat Environ* **2004**, *27*(11):685-691. http://www.jstage.jst.go.jp/article/jswe/27/11/685/ pdf.

Seitz W, Jiang JQ, Weber WH, Lloyd BJ, Maier M, and Maier D. "Removal of iodinated X-ray contrast media during drinking water treatment," *Environ Chem* **2006**, *3*(1):35-39. http://www.publish.csiro.au/paper/EN05036.htm.

Seitz W, Schulz W, and Weber WH. "Novel applications of highly sensitive liquid chromatography/mass spectrometry/mass spectrometry for the direct detection of ultra-trace levels of contaminants in water," *Rapid Commun Mass Spectrom* **2006**, *20*(15):2281-2285.

Seitz W, Weber WH, Jiang J-Q, Lloyd BJ, Maier M, Maier D, et al. "Monitoring of iodinated X-ray contrast media in surface water," *Chemosphere* **2006**, *64*(8):1318-1324. http://www.sciencedirect.com/science/article/B6V74-4J6X3MF-2/2/16062be7f78e62af9f9700d6e7bed757.

Seiwert C, "The Placebo Effect: It's Not All in Your Head," BioMedNet HMS Beagle 25 May, 2001.

Sekar R, and Wu HF. "Quantitative method for analysis of monensin in soil, water, and urine by direct combination of single-drop microextraction with atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry," *Anal Chem* **2006**, *78*(18):6306-6313.

Seki M, Fujishima S, Nozaka T, Maeda M, and Kobayashi K. "Comparison of response to 17β estradiol and 17β -trenbolone among three small fish species," *Environ Toxicol Chem* **2006**, *25*(10):2742-2752.

Seki M, Yokota H, Maeda M, and Kobayashi K. "Fish full life-cycle testing for 17 beta-estradiol on medaka (Oryzias latipes)," *Environ Toxicol Chem* **2005**, *24*(5):1259-1266.

Seki M, Yokota H, Matsubara H, Maeda M, Tadokoro H, and Kobayashi K. "Fish full life-cycle testing for androgen methyltestosterone on medaka (Oryzias latipes)," *Environ Toxicol Chem* **2004**, *23*(3):774-781.

Seki M, Yokota H, Matsubara H, Tsuruda Y, Maeda N, Tadokoro H, et al. "Effect of ethinylestradiol on the reproduction and induction of vitellogenin and testis-ova in medaka (Oryzias latipes)," *Environ Toxicol Chem* **2002**, *21*(8):1692-1698. http://www.ncbi.nlm.nih.gov/pubmed/12152771.

Sellman S, "Drugs and Chemicals Straight From the Tap," *NEXUS* 2005, 1-5. http://www.whatwomenmustknow.com/pdfs/DrugsonTap.pdf.

Selvik A, Hansen PK, Ervik A, and Samuelsen OB. "The stability and persistence of diflubenzuron in marine sediments studied under laboratory conditions and the dispersion to the sediment under a fish farmfollowing medication" *Sci Total Environ* **2002**, *285*:237-245.

Semard G, Bruchet A, Cardinael P, and Bouillon JP. "Use of comprehensive two-dimensional gas chromatography for the broad screening of hazardous contaminants in urban wastewaters," *Wat Sci Technol* **2008**, *57*(12):1983-1989.

http://www.ncbi.nlm.nih.gov/sites/entrez?Db=PubMed&Cmd=ShowDetailView&TermToSearch=185 87188&ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed_Pubmed_ResultsPanel.Pubmed_RVDoc Sum.

Semsar K, Perreault HAN, and Godwin J. "Fluoxetine-treated male wrasses exhibit low AVT expression," *Brain Res* **2004**, *1029*(2):141-147. http://www.sciencedirect.com/science/article/B6SYR-4DN1JRR-4/1/62ffbd24c6f207e2355b4f426ae1170d.

Sen A, and Semiz A. "Effects of metals and detergents on biotransformation and detoxification enzymes of leaping mullet (Liza saliens)," *Ecotoxicol Environ Safety* **2007**, *68*(3):405-411. http://www.sciencedirect.com/science/article/B6WDM-4M1D04K-2/1/8839ec7c0fe6f810cd633403a7501b4d.

Sengelov G, Agerso Y, Halling-Sorensen B, Baloda SB, Andersen JS, and Jensen LB. "Bacterial antibiotic resistance levels in Danish farmland as a result of treatment with pig manure slurry," *Environ Internat* **2003**, *28*(7):587-595. http://www.sciencedirect.com/science/article/B6V7X-473VVWM-1/2/ef470d254102811c48e6f5203ec2f9a8.

Sengl M, and Krezmer S. "Proficiency tests for pharmaceuticals in different waters," *Accreditation and Quality Assurance* **2003**, 8:523-529.

Séralini G-E, and Moslemi S. "Aromatase inhibitors: past, present and future," *Molecular Cell Endocrinol* **2001**, *178*(1-2):117-131.

Serge Chiron CMDV. "Photodegradation of Xenobiotic Compounds Relevant to Estuarine Waters," *Annali di Chimica* **2007**, *97*(3-4):135-139. http://dx.doi.org/10.1002/adic.200790013.

Serrano JM, and Silva M. "Rapid and sensitive determination of aminoglycoside antibiotics in water samples using a strong cation-exchange chromatography non-derivatisation method with chemiluminescence detection," *J Chromatogr A* **2006**, *1117*(2):176-183. http://www.sciencedirect.com/science/article/B6TG8-4JRKCYN-7/2/ee93c98423883fc80cc631cd9b9ad6dc.

Servos MR, Bennie DT, Burnison BK, Jurkovic A, McInnis R, Neheli T, et al. "Distribution of estrogens, 17-estradiol and estrone, in Canadian municipal wastewater treatment plants," *Sci Total Environ* **2005**, *336*(1-3):155-170.

Servos MR, Maguire RJ, Bennie DT, Lee H-B, Cureton PM, Davidson N, et al. "An Ecological Risk Assessment of Nonylphenol and Its Ethoxylates in the Aquatic Environment," *Human Ecolog Risk Assess* **2003**, *9*(2):569-587. http://www.sciencedirect.com/science/article/B6WRP-48CMY6N-7/2/a559eee4a6c8f5da450703dcf208b46f.

Servos MR, Smith M, McInnis R, Burnison K, Lee B-H, Seto P, et al. "The Presence of Selected Pharmaceuticals and Personal Care Products in Drinking Water in Ontario, Canada," *Wat Qual Res J Canada* **2007**, *42*(2):130-137. http://www.cawq.ca/cgi-bin/journal/abstract.cgi?language=english&pk_article=348.

Sesay AM. "Towards a remote portable bio-affinity surface plasmon resonance analyser for environmental steroidal-pollutants," Doctoral Dissertation, Cranfield University, Institute of Bioscience and Technology, 2003. 234 pp. https://dspace.lib.cranfield.ac.uk/handle/1826/854.

Sessink PJM, Friemèl NSS, Anzion RBM, and Bos RP. "Biological and environmental monitoring of occupational exposure of pharmaceutical plant workers to methotrexate," *InternatArch Occupational and Environ Health* **1994**, *65*(6):401-403. http://dx.doi.org/10.1007/BF00383251.

Seveno N, Kallifidas D, Smalla K, Van Elsas JD, Collard JM, Karagouni A, et al. "Occurrence and reservoirs of antibiotic resistance genes in the environment," *Rev Med Microbiol* **2002**, *13*(1):15-27. http://library.wur.nl/WebQuery/wurpubs/lang/321384 http://www.revmedmicrobiol.com/pt/re/revmedmicrob/abstract.00013542-200201000-00002.htm;jsessionid=LbsB7lbysFybwppNxFJmb1JmTQSxL99Cj6K8k0H41JHGVNxg2L2t!-641055460!181195629!8091!-1.

Shabir GA. "Validation of high-performance liquid chromatography methods for pharmaceutical analysis: Understanding the differences and similarities between validation requirements of the US Food and Drug Administration, the US Pharmacopeia and the International Conference on Harmonization," *J Chromatogr A* **2003**, *987*(1-2):57-66. http://www.sciencedirect.com/science/article/B6TG8-477FPW5-2/1/eb441bbb650b80f508da3be7aad563cf.

Shader RI. "Dose dumping and the dumping of doses," *J Clin Psychopharmacol* **2007**, *27*(4):327-328. http://www.psychopharmacology.com/pt/re/jclnpsychopharm/abstract.00004714-200708000-00001.htm;jsessionid=LTsZtzWy8kWhwvypjJV63FnbQqHrtpQtG5BzPVJqZt3kdBTXthC2!98208852 7!181195629!8091!-1.

Shafir W. "Pharmaceutical waste: why is it an issue now," Power Point Presentation, USEPA Region 9, http://www.westp2net.org/hospital/pdf/az/07%20Pharms%20Waste%20(AZ).pdf.

Shah AD, Kim JH, and Huang CH. "Reaction kinetics and transformation of carbadox and structurally related compounds with aqueous chlorine," *Environ Sci Technol* **2006**, *40*(23):7228-7235. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i23/html/es060404c.html.

Shah D, Bhattacharyya D, Ghorpade A, and Mangum W. "Pervaporation of pharmaceutical waste streams and synthetic mixtures using water selective membranes," *Environ Progress* **1999**, *18*:21-29.

Shah D, Kissick K, Ghorpade A, Hannah R, and Bhattacharyya D. "Pervaporation of alcohol-water and dimethylformamide-water mixtures using hydrophilic zeolite NaA membranes: mechanisms and experimental results," *J Membrane Sci* **2000**, *179*(1-2):185-205. http://www.sciencedirect.com/science/article/B6TGK-41M3H95-H/2/a79feb043b76f79787f359d2c61e2bf8.

Shahi SK, Krauth-Siegel RL, and Clayton CE. "Overexpression of the putative thiol conjugate transporter TbMRPA causes melarsoprol resistance in Trypanosoma brucei," *Molecular Microbiol* **2002**, *43*:1129-1138.

Shannon MA, Bohn PW, Elimelech M, Georgiadis JG, Marinas BJ, and Mayes AM. "Science and technology for water purification in the coming decades," *Nature* **2008**, *452*(20):301-310.

Shao B, Jia Z, Wu Y, Hu J, Tu Z, and Zhang J. "Multi-class confirmatory method for analyzing trace levels of tetracyline and quinolone antibiotics in pig tissues by ultra-performance liquid chromatography coupled with tandem mass spectrometry," *Rapid Comm Mass Spectrom* **2007**, *21*(21):3487-3496. http://dx.doi.org/10.1002/rcm.3236.

Shao B, Sun X, Zhang J, Hu J, Dong H, and Yang Y. "Determination of ofloxacin enantiomers in sewage using two-step solid-phase extraction and liquid chromatography with fluorescence detection," *J Chromatogr A* **2008**, *1182*(1):77-84. http://www.sciencedirect.com/science/article/B6TG8-4RHP9BS-3/2/fad7dc0a1aacec8e109d8e337d25274f.

Shao Y, He K, Zheng B, and Zheng Q. "Reversed-phase high-performance liquid chromatographic method for quantitative analysis of the six major kavalactones in Piper methysticum," *J Chromatogr A* **1998**, *825*(1):1-8. http://www.sciencedirect.com/science/article/B6TG8-3V09Y0X-1/2/ceb7a4c7d1fcfb957f8a05452b1ec85f.

Shappell NW. "Estrogenic activity in the environment: Municipal wastewater effluent, river, ponds, and wetlands," *J Environ Qual* **2006**, *35*(1):122-132.

Shappell NW, Billey LO, Forbes D, Matheny TA, Poach ME, Reddy GB, et al. "Estrogenic activity and steroid hormones in swine wastewater through a lagoon constructed-wetland system," *Environ Sci Technol* **2007**, *41*(2):444-450. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i02/abs/es061268e.html.

Shappell NW, Vrabel MA, Madsen PJ, Harrington G, Billey LO, Hakk H, et al. "Destruction of Estrogens Using Fe-TAML/Peroxide Catalysis," *Environ Sci Technol* **2008**, *42*(4):1296-1300. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es7022863.

Shareef A, Angove MJ, and Wells JD. "Optimization of silylation using N-methyl-N-(trimethylsilyl)-trifluoroacetamide, N,O-bis-(trimethyl.silyl)-trifluoroacetamide and N-(tert-butyldimethylsilyl)-N-methyltrifluoroacetamide for the determination of the estrogens estrone and 17 alpha-ethinylestradiol by gas chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1108*(1):121-128.

Shareef A, Angove MJ, Wells JD, and Johnson BB. "Reply to 'Suitability of N,Obis(trimethylsilyl)trifluoroacetamide as derivatization reagent for the determination of the estrogens estrone and 17 alpha-ethinylestradiol by gas chromatography-mass spectrometry'," *J Chromatogr A* **2005**, *1095*(1-2):203-204.

Shareef A, Angove MJ, Wells JD, and Johnson BB. "Aqueous solubilities of estrone, 17 beta-estradiol, 17 alpha-ethynylestradiol, and bisphenol A," *J Chem Engineering Data* **2006**, *51*(3):879-881.

Shareef A, Parnis CJ, Angove MJ, Wells JD, and Johnson BB. "Suitability of N,Obis(trimethylsilyl)trifluoroacetamide and N-(tert-butyldimethylsilyl)-N-methyltrifluoroacetamide as derivatization reagents for the determination of the estrogens estrone and 17 alpha-ethinylestradiol by gas chromatography-mass spectrometry," *J Chromatogr A* **2004**, *1026*(1-2):295-300. Sharma VK, and Mishra SK. "Ferrate(VI) oxidation of ibuprofen: A kinetic study," *Environ Chem Letters* **2006**, *3*(4):182-185.

Sharma VK, Mishra SK, and Nesnas N. "Oxidation of Sulfonamide Antimicrobials by Ferrate(VI) [Fe^{VI}O₄²⁻]," *Environ Sci Technol* **2006**, *40*(23):7222-7227. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es060351z.

Sharpe M. "High on pollution: Drugs as environmental contaminants," *J Environ Monit* 2003, *5*(3):42N-46N.

Sharpe RL, and MacLatchy DL. "Lipid dynamics in goldfish (Carassius auratus) during a period of gonadal recrudescence: Effects of beta-sitosterol and 17beta-estradiol exposure," *Comp Biochem Physiol C Toxicol Pharmacol* **2007**, *145*(4):507-517.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17428736.

Shea KM. "Antibiotic resistance: What is the impact of agricultural uses of antibiotics on children's health?," *Pediatrics* **2003**, *112*(1,S):253-258.

Sheehan DM. "Activity of environmentally relevant low doses of endocrine disruptors and the bisphenol A controversy: Initial results confirmed," *Proc Soc Exp Biol Med* **2000**, 224:57-60.

Sheehan DM, Willingham E, Gaylor D, Bergeron JM, and Crews D. "No threshold dose for estradiolinduced sex reversal of turtle embryos: How little is too much?," *Environ Health Perspect* **1999**, *107*:155-159.

Shek WM. "A study of synthetic polycyclic musks in the aquatic environment of Hong Kong," Masters Dissertation, City University of Hong Kong, Department of Biology and Chemistry, Hong Kong, China, 2007. 118 pp. <u>http://hdl.handle.net/2031/4909</u>

Shek WM, Murphy MB, Lam JCW, and Lam PKS. "Synthetic polycyclic musks in Hong Kong sewage sludge," *Chemosphere* **2008**, *71*(7):1241-1250. http://www.sciencedirect.com/science/article/B6V74-4RTCV62-6/1/006c4d12266a153302cfc7ab2c66082c.

Shek WM, Murphy MB, Lam JCW, and Lam PKS. "Polycyclic musks in green-lipped mussels (Perna viridis) from Hong Kong," *Mar Pollut Bull* **2008**, *57*(6-12):373-380. http://www.sciencedirect.com/science/article/B6V6N-4S62CSH-1/1/54abee844ff72a878de525b6f6b2223f.

Sheldon LS, and Hites RA. "Organic compounds in the Delaware River," *Environ Sci Technol* **1978**, *12*(10):1188-1194. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1978/12/i10/f-pdf/f_es60146a006.pdf.

Shelver WL, Kamp LM, Church JL, and Rubio FM. "Measurement of triclosan in water using a magnetic particle enzyme immunoassay," *J Agric Food Chem* **2007**, *55*(10):3758-3763.

Shemer H, Kunukcu YK, and Linden KG. "Degradation of the pharmaceutical Metronidazole via UV, Fenton and photo-Fenton processes," *Chemosphere* **2006**, *63*(2):269-276. http://www.sciencedirect.com/science/article/B6V74-4H2PJF9-6/2/a8d61420b42dc4a7eb9f46900978f7e5.

Shen C, Huang S, Wang Z, Qiao M, Tang X, Yu C, et al. "Identification of Ah Receptor Agonists in Soil of E-waste Recycling Sites from Taizhou Area in China," *Environ Sci Technol* **2008**, *42*(1):49-55. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es071162z.

Shen HY, Jiang HL, Mao HL, Pan G, Zhou L, and Cao YF. "Simultaneous determination of seven phthalates and four parabens in cosmetic products using HPLC-DAD and GC-MS methods," *J Sep Sci* **2007**, *30*(1):48-54.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17313141.

Shen H-Y, and Jiang H-L. "Screening, determination and confirmation of chloramphenicol in seafood, meat and honey using ELISA, HPLC-UVD, GC-ECD, GC-MS-EI-SIM and GCMS-NCI-SIM methods," *Anal Chimica Acta* **2005**, *535*(1-2):33-41. http://www.sciencedirect.com/science/article/B6TF4-4FC8V2V-2/2/db8e2ef663f2abcbf3f1b355fccc95e9.

Shen K-F, and Crain SM. "Ultra-low doses of naltrexone or etorphine increase morphine's antinociceptive potency and attenuate tolerance/dependence in mice," *Brain Res* **1997**, *757*(2):176-190. http://www.sciencedirect.com/science/article/B6SYR-3PSB256-Y/2/824e6d163fcf7ee32d21bff4c9e3d0b0.

Shen K-F, and Crain SM. "Cholera toxin-B subunit blocks excitatory opioid receptor-mediated hyperalgesic effects in mice, thereby unmasking potent opioid analgesia and attenuating opioid tolerance/dependence," *Brain Res* **2001**, *919*(1):20-30. http://www.sciencedirect.com/science/article/B6SYR-443K1RR-B/2/e13ba7d0c478b61ffd7b848cc2002e12.

Shepard BD, and Gilmore MS. "Antibiotic-resistant enterococci: the mechanisms and dynamics of drug introduction and resistance," *Microbes and Infection* **2002**, *4*:215-224.

Sherer JT. "Pharmaceuticals in the environment," Am J Health - System Pharmacy 2006, 63:174-178.

Sherratt TN, Macdougall AD, Wratten SD, and Forbes AB. "Models to assist the evaluation of the impact of avermectins on dung insect populations," *Ecological Modelling* **1998**, *110*(2):165-173. http://www.sciencedirect.com/science/article/B6VBS-3VF4NXY-33/1/8319bd19a6b898e20b5091dd4ee8e48a.

Shi J, Fujisawa S, Nakai S, and Hosomi M. "Biodegradation of natural and synthetic estrogens by nitrifying activated sludge and ammonia-oxidizing bacterium Nitrosomonas europaea," *Wat Res* **2004**, *38*(9):2323-2330. http://www.sciencedirect.com/science/article/B6V73-4C4W0D6-2/2/a6576ea3388693cad00cdc83cbd3a9f7.

Shi JH, Suzuki Y, Nakai S, and Hosomi M. "Mimbial degradation of estrogens using activated sludge and night soil-composting microorganisms," *Wat Sci Technol* **2004**, *50*(8):153-159.

Shilling AD, Carlson DB, and Williams DE. "Rainbout trout, Oncorhynchus mykiss, as a model for aromatase inhibition," *J Steroid Biochem Molecular* **1999**, *70*(1-3):89-95.

Shin'ichiro N. "Study on development of simultaneous analytical method for 11 pharmaceuticals by LC/MS method," *Report of Hokkaido Institute of Environ Studies* **2006**, *32*:66-71. http://sciencelinks.jp/j-east/article/200616/000020061606A0614007.php.

Shinohara H, Murakami M, Managaki S, Kojima S, Takada H, Sato N, et al. "Removal of watersoluble organic micro-pollutants by soil infiltration," *Environ Sci (Tokyo)* **2006**, *19*(5):435-444. http://sciencelinks.jp/j-east/article/200621/000020062106A0810217.php http://www.fao.org/agris/search/display.do?f=./2006/JP/JP0621.xml;JP2007001234.

Shinohara H, Tanishima T, Kojima S, Managaki S, Takada H, Nakada N, et al. "Water-soluble Organic Micro-Pollutants in Municipal Wastewater and their Removal During Advanced Treatment," in *Southest Asian Water Environment 2*, Furumai H, Kurisu F, Katayama H, Satoh H, Ohgaki S and Thanh NC, Eds., 2007, 311-316. 01 Mar. http://books.google.com/books?hl=en&lr=&id=Shl_SJelfygC&oi=fnd&pg=PA311&dq=sewage+Crot amiton+&ots=hf45BMAz5a&sig=1XNuR3sEyC9gRDQT0LuOg-3kuC0

http://www.amazon.com/exec/obidos/ASIN/1843391244.

Shirbacheh MV, Ren XP, Jones JW, Breidenbach WC, Jevans AW, Fernandez-Botran GR, et al. "Pharmacokinetic advantage of intra-arterial cyclosporin A delivery to vascularly isolated rabbit forelimb. I. model development," *J Pharmacol Experimental Therapeut* **1999**, 289:1185-1190.

Shmayda WT, and Gallagher RD. "Recovery of tritium from pharmaceutical mixed waste liquids," *Fusion Science and Technology* **2002**, *41*:726-730.

Shoji R, Sakoda A, Sakai Y, and Suzuki M. "Formulating biossay data of chemicals and environmental water," *Wat Sci Technol* **2000**, *42*:115-123.

Shon HK, Vigneswaran S, and Snyder SA. "Effluent organic matter (EfOM) in wastewater: Constituents, effects, and treatment," *Crit Rev Environ Sci Technol* **2006**, *36*(3):327-374.

Shore LS, Gurevita M, and Shemesh M. "Estrogen as an environmental pollutant," *Bull Environ Contam Toxicol* **1993**, *51*:361-366.

Shore LS, Reichmann O, Shemesh M, Wenzel A, and Litaor MI. "Washout of accumulated testosterone in a watershed," *Sci Total Environ* **2004**, *332*(1-3):193-202. http://www.sciencedirect.com/science/article/B6V78-4CPVNN3-9/2/180e8c39706b174966b765fb551f584a.

Shore LS, and Shemesh M. "Naturally produced steroid hormones and their release into the environment," *Pure Appl Chem* **2003**, *75*(11-12):1859-1871.

Siegel BB. "Hidden contacts with penicillin," Bull World Health Org 1959, 21:703-713.

Siegener R, and Chen RF. "Detection and measurement of the phamaceuticals entering Boston Harbor," 216th National Meeting of the American Chemical Society, Boston, MA, August 23-27, 1998, 216.

Siegener R, and Chen RF. "Detection of pharmaceuticals entering Boston Harbor," in *Environmental Endocrine Disruptors*, Keith LH, Jones-Lepp TL and Needham LL, Eds., American Chemical Society; Washington, DC, 2000, 125-132. http://alpha.es.umb.edu/faculty/rfc/chen.htm.

Siegener R, and Chen RF. "Caffeine in Boston Harbor seawater," *Mar Pollut Bull* **2002**, *44*(5):383-387.

Siegrist H, Joss A, Alder AC, Golet EM, Gobel A, Keller E, et al. "Fate of pharmaceuticals, personal care products and hormones in municipal wastewater treatment - a new challenge for wastewater management," POSEIDON Symposium Presentation of Project Results, 2003.

Siemens J, Huschek G, Siebe C, and Kaupenjohann M. "Concentrations and mobility of human pharmaceuticals in the world's largest wastewater irrigation system, Mexico City-Mezquital Valley," *Wat Res* **2008**, *42*(8-9):2124-2134. http://www.sciencedirect.com/science/article/B6V73-4R6B2F1-1/1/a87d8ee846c3ed8c6ae567458f3b8dd0.

Sievers RE, Barkley RM, Eiceman GA, Shapiro RH, Walton HF, Kolonko KJ, et al. "Environmental trace analysis of organics in water by glass capillary column chromatography and ancillary techniques : Products of ozonolysis," *J Chromatogr* **1977**, *142*:745-754. http://www.sciencedirect.com/science/article/B6TG8-44R3XD0-119/2/aa15af51ebf251601eaaf2fd47ebcb99.

Signore AA, and Jacobs T. "Good Design Practices for GMP Pharmaceutical Facilities ", Taylor & Francis, 2005, 550 pp. http://books.google.com/books?hl=en&lr=&id=uuDvdqOLNa0C&oi=fnd&pg=PA23&dq=%22Good+ Design+Practices+for+GMP+Pharmaceutical+Facilities%22+&ots=3HSz2nu5t4&sig=jCwRte9IqMu0 U-bFkE2Guyh-IQU.

Silva E, Rajapakse N, and Kortenkamp A. "Something from "Nothing" - Eight Weak Estrogenic Chemicals Combined at Concentrations below NOECs Produce Significant Mixture Effects," *Environ Sci Technol* **2002**, *36*(8):1751-1756.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0101227.

Silva MJ, Barr DB, Reidy JA, Malek NA, Hodge CC, Caudill SP, et al. "Urinary levels of seven phthalate metabolites in the U.S. population from the National Health and Nutrition Examination Survey (NHANES) 1999-2000," *Environ Health Perspect* **2004**, *112*(3):331-338.

Silverio F, dos Reis MJ, Tronto J, and Valim JB. "Removal of aliphatic amino acids by hybrid organicinorganic layered compounds," *Appl Surface Sci* **2007**, *253*(13):5756-5761. http://www.sciencedirect.com/science/article/B6THY-4MNR0G4-Y/2/6b9e6e18b03169eb02300f8283a403b0.

Siminiceanu I, and Bobu M-M. "A comparative kinetic study of the ciprofloxacin degradation in water by several advanced oxidation processes," *Revista de Chimie* **2006**, *57*(12):1205-1209.

Simmons D, Trudeau V, Marlatt V, Moon T, Sherry J, and Metcalfe C. "Interaction of Stilbene Compounds with Human and Rainbow Trout Estrogen Receptors," *Environ Toxicol Chem* **2007**, *27*(2) http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17970601.

Simmons DL. "What makes a good anti-inflammatory drug target?," *Drug Discovery Today* **2006**, *11*:210-219.

Simon NS. "Loosely bound oxytetracycline in riverine sediments from two tributaries of the Chesapeake Bay," *Environ Sci Technol* **2005**, *39*(10):3480-3487. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i10/abs/es049039k.html.

Simonich SL, Begley WM, Debaere G, and Eckhoff WS. "Trace Analysis of Fragrance Materials in Wastewater and Treated Wastewater," *Environ Sci Technol* **2000**, *34*(6):959-965. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es991018g.

Simonich SL, Federle TW, Eckhoff WS, Rottiers A, Webb S, Sabaliunas D, et al. "Removal of fragrance materials during US and European wastewater treatment," *Environ Sci Technol* **2002**, *36*(13):2839-2847. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i13/abs/es025503e.html.

Sinah Hikim AP. "Effect of 22,25-diazocholesterol dihydrochloride on the spermatogenesis of a wild rat, Bandicota bengalensis," *Int J Fertil* **1987**, *32*(4):320-323.

Sinah Hikim AP, and Chakraborty J. "Effects of diazocholesterol dihydrochloride (SC-12937), an avian antifertility agent, on rat testis," *J Androl* **1986**, *7*:277-284.

Singer AC, Nunn MA, Gould EA, and Johnson AC. "Potential risks associated with the proposed widespread use of tamiflu," *Environ Health Perspect* **2007**, *115*(1):102–106.

Singer GA, and Battin TJ. "Anthropogenic subsidies alter stream consumer-resource stoichiometry, biodiversity, and food chains," *Ecological Applications* **2007**, *17*(2):376-389.

Singer H, Müller S, Tixier C, and Pillonel L. "Triclosan: Occurrence and fate of a widely used biocide in the aquatic environment: Field measurements in wastewater treatment plants, surface waters, and lake sediments," *Environ Sci Technol* **2002**, *36*(23):4998-5004. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2002/36/i23/abs/es025750i.html.

Singer RS, and Hofacre CL. "Potential impacts of antibiotic use in poultry production," *Avian Diseases* **2006**, *50*(2):161-172.

Singer RS, Ward MP, and Maldonado G. "Opinion - Can landscape ecology untangle the complexity of antibiotic resistance?," *Nature Rev Microbiol* **2006**, *4*(12):943-952.

Singer RS, Ward MP, and Maldonado G. "Can landscape ecology untangle the complexity of antibiotic resistance?," *Nat Rev Micro* **2006**, *4*(12):943-952. http://dx.doi.org/10.1038/nrmicro1553.

Singh M. "The pharmaceutical supply chain: a diagnosis of the state-of-the-art," Masters Dissertation, University of Tennessee, Engineering Systems Division, 2005. 158 pp. http://ctl.mit.edu/public/2005_Singh_Thesis.pdf.

Singh SP. "Assessing the sources, quantities, and trends on human waste contamination along protected south Florida ecosystem: A chemical tracer based study," Doctoral Dissertation, Florida International University, Miami, Florida, 2006. 237 pp. http://wwwlib.umi.com/dissertations/fullcit/3235619.

Singleton FL, Deming JW, Peele ER, Cavari B, and Gunn B. "Microbial Communities In Surface Waters At the Puerto Rico Dumpsite," in *Wastes in the Ocean* John WIley and Sons; New York, N.Y., 1983, 201-218. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707406&q=+pha rmaceutical+disposal&uid=790088066&setcookie=yes.

Sires I, Arias C, Cabot PL, Centellas F, Garrido JA, Rodriguez RM, et al. "Degradation of clofibric acid in acidic aqueous medium by electro-Fenton and photoelectro-Fenton," *Chemosphere* **2007**, *66*(9):1660-1669. http://www.sciencedirect.com/science/article/B6V74-4KSD58Y-1/2/c595ddbb9bfaa764492c4851b1f32af1.

Sires I, Cabot PL, Centellas F, Garrido JA, Rodriguez RM, Arias C, et al. "Electrochemical degradation of clofibric acid in water by anodic oxidation: Comparative study with platinum and boron-doped diamond electrodes," *Electrochimica Acta* **2006**, *52*(1):75-85. http://www.sciencedirect.com/science/article/B6TG0-4JTRTCM-9/2/b2b9ec2ee6dfc52a26d997eac155e506.

Sires I, Garrido JA, Rodriguez RM, Cabot PI, Centellas F, Arias C, et al. "Electrochemical degradation of paracetamol from water by catalytic action of Fe2+, Cu2+, and UVA light on electrogenerated hydrogen peroxide," *J Electrochem Soc* **2006**, *153*(1):D1-D9.

Sires I, Oturan N, Oturan MA, Rodriguez RM, Garrido JA, and Brillas E. "Electro-Fenton degradation of antimicrobials triclosan and triclocarban," *Electrochimica Acta* **2007**, *52*(17):5493-5503. http://www.sciencedirect.com/science/article/B6TG0-4N7SBTX-4/2/9a7968c87b3341568a9187a1f0aa9e12.

Sissell K. "Personal care products face increased regulatory scrutiny," *Chem Week* **2005**, *167*(May 11):37.

Sithole BB, and Guy RD. "Models for tetracycline in aquatic environments, I," *Wat Air Soil Pollut* **1987**, *32*(3):303-314. http://dx.doi.org/10.1007/BF00225116.

Sithole BB, and Guy RD. "Models for tetracycline in aquatic environments, II," *Wat Air Soil Pollut* **1987**, *32*(3):315-321. http://dx.doi.org/10.1007/BF00225117.

Skillman AD, Nagler JJ, Hook SE, Small JA, and Schultz IR. "Dynamics of 17 alpha-ethynylestradiol exposure in rainbow trout (Oncorhynchus mykiss): Absorption, tissue distribution, and hepatic gene expression pattern," *Environ Toxicol Chem* **2006**, *25*(11):2997-3005. http://lib.bioinfo.pl/pmid:17089724.

Skladanowski AC, Stepnowski P, Kleszczynski K, and Dmochowska B. "AMP deaminase in vitro inhibition by xenobiotics: A potential molecular method for risk assessment of synthetic nitro- and polycyclic musks, imidazolium ionic liquids and N-glucopyranosyl ammonium salts," *Environ Toxicol*

Pharmacol **2005**, *19*(2):291-296. http://www.sciencedirect.com/science/article/B6T6D-4DFC13B-2/2/6f05c5942ed01d9e5b8dab759f149b0a.

Skoumal M, Arias C, Lluis Cabot P, Centellas F, Antonio Garrido J, Maria Rodriguez R, et al. "Mineralization of the biocide chloroxylenol by electrochemical advanced oxidation processes," *Chemosphere* **2008**, *71*(9):1718-1729.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4RTCPMP-7&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=d672e971032ecca6bae95e37829a2631.

Skoumal M, Cabot PL, Centellas F, Arias C, Rodriguez RM, Garrido JA, et al. "Mineralization of paracetamol by ozonation catalyzed with Fe2+, Cu2+ and UVA light," *Appl Catalysis B: Environ* **2006**, *66*(3-4):228-240.

Skoumal M, Rodríguez RM, Cabot PL, Centellas F, Garrido JA, Arias C, et al. "Electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton degradation of the drug ibuprofen in acid aqueous medium using platinum and boron-doped diamond anodes," *Electrochimica Acta* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TG0-4T0MMMF-2/1/1bd7b3a998f3fc17e146c96daa16ff89.

Slack RJ, Bonin M, Gronow JR, Van Santen A, and Voulvoulis N. "Household hazardous waste data for the UK by direct sampling," *Environ Sci Technol* **2007**, *41*(7 April 1):2566,2571. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i07/abs/es061775w.html.

Slack RJ, Gronow JR, Hall DH, and Voulvoulis N. "Household hazardous waste disposal to landfill: Using LandSim to model leachate migration," *Environ Pollut* **2007**, *146*(2):501-509. http://www.sciencedirect.com/science/article/B6VB5-4M3RPBK-2/2/17dcb5d7ae9aca48f6d9f4175f547cb1.

Slack RJ, Gronow JR, and Voulvoulis N. "Hazardous components of household waste," *Crit Rev Environ Sci Technol* **2004**, *34*(5):419-445. http://www.sciencedirect.com/science/article/B6WRG-4GMJH6G-1/2/410e034721200d59bca5dd8730a72a31.

Slack RJ, Gronow JR, and Voulvoulis N. "Household hazardous waste in municipal landfills: contaminants in leachate," *Sci Total Environ* **2005**, *337*(1-3):119-137. http://www.sciencedirect.com/science/article/B6V78-4D99CPM-2/1/848b5d3a44d7fd2aecb3cc97eca4b4da.

Slack RJ, Zerva P, Gronow JR, and Voulvoulis N. "Assessing quantities and disposal routes for household hazardous products in the United Kingdom," *Environ Sci Technol* **2005**, *39*(6):1912-1919. http://www.ncbi.nlm.nih.gov/pubmed/15819255.

Slater CS, and Savelski M. "A method to characterize the greenness of solvents used in pharmaceutical manufacture," *J Environ Sci Health A Tox Hazard Subst Environ Eng* **2007**, *42*(11):1595-1605. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17849301. Slavotinek AM, and Biesecker LG. "Unfolding the role of chaperones and chaperonins in human disease," *Trends Genetics* **2001**, *17*(9):528-535. http://www.sciencedirect.com/science/article/B6TCY-43RRTX1-X/1/c699a3a07d413715f74b75a5fa25c3b1.

Sleeman R, Burton F, Carter J, Roberts D, and Hulmston P. "Drugs on money," *Anal Chem* **2000**, *398*(June 1):A-402 A.

Slegers C, and Tilquin B. "Final product analysis in the e-beam and gamma radiolysis of aqueous solutions of metoprolol tartrate," *Radiation Physics And Chemistry* **2006**, *75*(9):1006-1017. http://www.sciencedirect.com/science/article/B6TVT-4K42DHY-2/2/1da021dcf8215a192c837c0b3fd41d30.

Slikker JW, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB, et al. "Dose-dependent transitions in mechanisms of toxicity: case studies," *Toxicol Appl Pharmacol* **2004**, *201*(3):226-294. http://www.sciencedirect.com/science/article/B6WXH-4DN9JG7-1/2/ab66fdb9da1cbfde7f414d5eedc742b1.

Slikker JW, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB, et al. "Dose-dependent transitions in mechanisms of toxicity," *Toxicol Appl Pharmacol* **2004**, *201*(3):203-225. http://www.sciencedirect.com/science/article/B6WXH-4DN9VWR-4/2/88bbf8e1ecbfd26a264d3b67960e0f99.

Slovic P. "Trust, emotion, sex, politics, and science: Surveying the risk-assessment battlefield," *Risk Anal* **1999**, *19*(4):689-701.

Slovic P. "The risk game," *J Hazardous Mat* **2001**, 86(1-3):17-24. http://www.sciencedirect.com/science/article/B6TGF-43V9RTJ-3/2/3646bf7636f1d19bc8c248697643083e.

Slovic P, and Weber EU. "Perception of Risk Posed by Extreme Events," Risk management strategies in an uncertain world, Palisades, NY, April 12-13, 2002, http://www.ldeo.columbia.edu/CHRR/Roundtable/slovic_wp.pdf.

Smelby KL. "Occurrence and fate of fluoroquinolone antibiotics in wastewater treatment systems," Masters Dissertation, Georgia Institute of Technology, 2002. pp. <u>http://hdl.handle.net/1853/19914</u>

Smital T, and Kurelec B. "The chemosensitizers of multixenobiotic resistance mechanism in aquatic invertebrates: a new class of pollutants," *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **1998**, *399*(1):43-53. http://www.sciencedirect.com/science/article/B6T2C-3WTP8TD-5/2/36d2ac56b4e68075c956f116fcb3096e.

Smital T, Luckenbach T, Sauerborn R, Hamdoun AM, Vega RL, and Epel D. "Emerging contaminants--pesticides, PPCPs, microbial degradation products and natural substances as inhibitors of multixenobiotic defense in aquatic organisms," *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **2004**, *552*(1-2):101-117. http://www.sciencedirect.com/science/article/B6T2C-4CTD1CS-4/2/242c4533ff1419787488a67dc02302a7. Smital T, Sauerborn R, and Hackenberger BK. "Inducibility of the P-glycoprotein transport activity in the marine mussel Mytilus galloprovincialis and the freshwater mussel Dreissena polymorpha," *Aqua Toxicol* **2003**, *65*(4):443-465. http://www.sciencedirect.com/science/article/B6T4G-49MX424-3/2/cbcd449e225f68ac0dbb5ed46fea2842.

Smital T, Sauerborn R, Pivcevic B, Krca S, and Kurelec B. "Interspecies differences in P-glycoprotein mediated activity of multixenobiotic resistance mechanism in several marine and freshwater invertebrates," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2000**, *126*(2):175-186. http://www.sciencedirect.com/science/article/B6T2S-40K9R89-8/2/81bff94b46cc80cd1e74f48e88579548.

Smith CA. "Rationale for inclusion of criteria for proper disposal of monography pharmaceutical preparations based on the Resource Conservation and Recovery Act," *Pharmacopeial forum* **1999**, *25*(3):8309-8312. http://cat.inist.fr/?aModele=afficheN&cpsidt=10052151.

Smith CA. "Managing pharmaceutical waste — what pharmacists should know," *J Pharm Soc Wisconsin* **2002**, (Nov/Dec):17-22.

Smith CA. "Pharmaceuticals Take Back Program," ASTSWMO (Association of State and Territorial Solid Waste Management Officials) State Hazardous Waste Conference, Minneapolis, MN, 29 July, 2002.

Smith CA. "Managing Pharmaceutical Waste: What Pharmacists Should Know," *J Pharm Soc Wisconsin* **2002**, *Nov/Dec*:17-22.

Smith CA. "The right prescription. Managing pharmaceutical waste is environmentally correct and the law," *Health Facil Manage* **2003**, *16*(5):30-34. http://www.nebi.nlm.nih.gov/ontrog/ouery_fegi2emd=Patriove&db=PubMed&dent=Citation&list_uides

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12789908.

Smith DA, and Obach RS. "Metabolites and Safety: What Are the Concerns, and How Should We Address Them?," *Chem Res Toxicol* **2006**, *19*(12):1570-1579. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/tx0602012.

Smith DeWaal C. "Safe food from a consumer perspective," *Food Control* **2003**, *14*(2):75-79. http://www.sciencedirect.com/science/article/B6T6S-47GHRCP-5/2/d5934d84fc3201b808298af7868162b4.

Smith DL, Dushoff J, and Morris JG. "Agricultural antibiotics and human health - Does antibiotic use in agriculture have a greater impact than hospital use?," *PLoS Med* **2005**, *2*(8):731-735.

Smith GR, and Burgett AA. "Effects of three organic wastewater contaminants on American toad, Bufo americanus, tadpoles," *Ecotoxicology* **2005**, *14*(4):477-482.

Smith LW. "The scientific basis for sound decisions on fragrance material use," *Reg Toxicol Pharmacol* **2003**, *37*(2):172. http://www.sciencedirect.com/science/article/B6WPT-48BKV94-3/2/aef7af547ca32dcbebbaace2f462a8b2.

Smith LW. "More recent studies on fragrances," Environ Health Perspect 2004, 112(15):A865.

Smith LW, and Api AM. "RIFM toxicologic and dermatologic assessments of linalool and related esters when used as fragrance ingredients," *Food Chem Toxicol* **2003**, *41*(7):917-1050.

Smith LW, and Salvito DT. "Comments on 'The Sweet Scent on Baby's Breath?'," *Environ Health Perspect* **2008**, *116*(4):154A-155A.

Smith MS, Yang RK, Knapp CW, Niu Y, Peak N, Hanfelt MM, et al. "Quantification of Tetracycline Resistance Genes in Feedlot Lagoons by Real-Time PCR," *Appl Environ Microbiol* **2004**, *70*(12):7372-7377. http://aem.asm.org/cgi/content/abstract/70/12/7372.

Smith P. "Antimicrobial resistance in aquaculture," *Revue Scientifique Et Technique-Office International Des Epizooties* **2008**, 27(1):243-264.

Smith P, and Samuelsen OB. "Estimates of the significance of out-washing of oxytetracycline from sediments under Atlantic salmon sea-cages," *Aquaculture* **1996**, *144*:17-26. http://www.ingentaconnect.com/content/els/00448486/1996/00000144/00000001/art01318 http://dx.doi.org/10.1016/S0044-8486(96)01318-X.

Smook TM, Zho H, and Zytner RG. "Removal of ibuprofen from wastewater: comparing biodegradation in conventional, membrane bioreactor, and biological nutrient removal treatment systems," *Wat Sci Technol* **2008**, *57*(1):1-8. http://www.ncbi.nlm.nih.gov/pubmed/18192734.

Smyrniotakis CG, and Archontaki HA. "C(18) columns for the simultaneous determination of oxytetracycline and its related substances by reversed-phase high performance liquid chromatography and UV detection," *J Pharm Biomed Anal* **2007**, *43*(2):506-514. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16989968.

Smyth SA, Lishman L, Alaee M, Kleywegt S, Svoboda L, Yang JJ, et al. "Sample storage and extraction efficiencies in determination of polycyclic and nitro musks in sewage sludge," *Chemosphere* **2007**, *67*(2):267-275.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17156817.

Smyth SA, Lishman LA, McBean EA, Kleywegt S, Yang J-J, Svoboda MLewina, et al. "Seasonal occurrence and removal of polycyclic and nitro musks from wastewater treatment plants in Ontario, Canada," *J Environ Eng Sci* **2008**, *7*(4):299-317. http://www.ingentaconnect.com/content/nrc/jees/2008/0000007/00000004/art00005.

Smyth WF. "Electrospray ionisation mass spectrometric behaviour of selected drugs and their metabolites," *Anal Chim Acta* **2003**, *492*(1-2):1-16. http://www.sciencedirect.com/science/article/B6TF4-47GHSH1-3/1/33f5f83f6e43135853978d84840c06d0.

Snell B. "Inappropriate drug donations: the need for reforms," *The Lancet* **2001**, *358*(9281):578-580. http://www.sciencedirect.com/science/article/B6T1B-43VBSX5-18/1/1f8652b6e5c2d69f33a3b0827999b321. Snell MB. "Welcome to meth country," *Sierra* **2001**, *86*(1) http://www.sierraclub.org/sierra/200101/Meth.asp.

Snell TW, and Serra M. "Using probability of extinction to evaluate the ecological significance of toxicant effects," *Environ Toxicol Chem* **2000**, *19*(9):2357-2363. http://dx.doi.org/10.1897%2F1551-5028%282000%29019%3C2357%3AUPOETE%3E2.3.CO%3B2.

Snow DD, Cassada DA, Monson SJ, Zhu J, and Spalding RF. "Tetracycline and macrolide antibiotics -Trace analysis in water and wastewater using solid phase extraction and liquid chromatographytandem mass spectrometry," *Univ Nebraska Wat Sci Lab* **2003**, *850*:161-174.

Snyder EM, Pleus RC, and Snyder SA. "Pharmaceuticals and EDCs in the US water industry – An update," *J Am Wat Works Assoc* 2005, *97*(11):32-.

Snyder EM, Snyder SA, Kelly KL, Gross TS, Villeneuve DL, Fitzgerald SD, et al. "Reproductive responses of common carp (Cyprinus carpio) exposed in cages to influent of the Las Vegas Wash in Lake Mead, Nevada, from late winter to early spring," *Environ Sci Technol* **2004**, *38*(23):6385-6395. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i23/abs/es049690n.html.

Snyder MJ. "Cytochrome P450 enzymes in aquatic invertebrates: recent advances and future directions," *Aqua Toxicol* **2000**, *48*(4):529-547. http://www.sciencedirect.com/science/article/B6T4G-405KCVB-C/2/4e11283a7bbe9657198495f8410499a5.

Snyder MJ, Girvetz E, and Mulder EP. "Induction of Marine Mollusc Stress Proteins by Chemical or Physical Stress," *Arch Environ Contam Toxicol* **2001**, *41*(1):22-29. http://dx.doi.org/10.1007/s002440010217.

Snyder SA. "Occurrence, treatment, and toxicological relevance of EDCs and pharmaceuticals in water," *J Internat Ozone Assoc* **2008**, *30*:65-69. http://pdfserve.informaworld.com/Pdf/AddCoversheet?xml=/mnt/pdfserve/pdfserve/777874-731225441-791197768.xml.

Snyder SA, Adham S, Redding AM, Cannon FS, DeCarolis J, Oppenheimer J, et al. "Role of membranes and activated carbon in the removal of endocrine disruptors and pharmaceuticals," *Desalination* **2007**, *202*(1-3):156-181. http://www.sciencedirect.com/science/article/B6TFX-4MG7BS6-V/2/b94a8e1ae6bea0f34851d268382b1399.

Snyder SA, Keith TL, Verbrugge DA, Snyder EM, Gross TS, Kannan K, et al. "Analytical methods for detection of selected estrogenic compounds in aqueous mixtures," *Environ Sci Technol* **1999**, *33*(16):2814-2820. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1999/33/i16/abs/es981294f.html.

Snyder SA, Kelly KL, Grange AH, Sovocool GW, Snyder EM, and Giesy JP. "Pharmaceuticals and personal care products in the waters of Lake Mead, Nevada," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 7, 116-139.

Snyder SA, Leising J, Westerhoff P, Yoon Y, Mash H, and Vanderford B. "Biological and physical attenuation of endocrine disruptors and pharmaceuticals: Implications for water reuse," *Ground Wat Monit Remediation* **2004**, *24*(2):108-118. <Go to ISI>://CCC:000221594900011.

Snyder SA, Pleus RC, Vanderford BJ, and Holady JC. "Perchlorate and chlorate in dietary supplements and flavor enhancing ingredients," *Anal Chimica Acta* **2006**, *567*(1):26-32. http://www.sciencedirect.com/science/article/B6TF4-4JGSW1X-5/2/d70649a6ac1b8ef747058eed129f1e3e.

Snyder SA, Vanderford BJ, and Rexing DJ. "Trace analysis of bromate, chlorate, iodate, and perchlorate in natural and bottled water," *Environ Sci Technol* **2006**, *39*(12):4586-4593. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i12/abs/es047935q.html.

Snyder SA, Villeneuve DL, Snyder EM, and Giesy JP. "Identification and Quantification of Estrogen Receptor Agonists in Wastewater Effluents," *Environ Sci Technol* **2001**, *35*(18):3620-3625. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es001254n.

Snyder SA, Wert EC, Lei H, Westerhoff P, and Yoon Y. "Removal of EDC's and pharmaceuticals in drinking and reuse treatment processes," Awwa Research Foundation, 2007, 331 pp. http://www.awwarf.org/research/TopicsAndProjects/execSum/2758.aspx.

Snyder SA, Wert EC, Rexing DJ, Zegers RE, and Drury DD. "Ozone oxidation of endocrine disruptors and pharmaceuticals in surface water and wastewater," *Ozone-Sci Eng* **2006**, *28*(6):445-460.

Snyder SA, Westerhoff P, Yoon Y, and Sedlak DL. "Pharmaceuticals, personal care products, and endocrine disruptors in water: Implications for the water industry," *Environ Eng Sci* **2003**, *20*(5):449-469. http://www.liebertonline.com/doi/abs/10.1089/109287503768335931.

Soares A, Guieysse B, Jefferson B, Cartmell E, and Lester JN. "Nonylphenol in the environment: A critical review on occurrence, fate, toxicity and treatment in wastewaters," *Environment International* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V7X-4RWBHK4-1/1/4d0e434af220dd4ff87e20a7e8a34e06.

Sobsey MD, Stauber CE, Casanova LM, Brown JM, and Elliott MA. "Point of Use Household Drinking Water Filtration: A Practical, Effective Solution for Providing Sustained Access to Safe Drinking Water in the Developing World," *Environ Sci Technol* **2008**, *42*(12):4261-4267. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es702746n.

Söderström H, Lindberg RH, and Fick J. "Strategies for monitoring the emerging polar organic contaminants in water with emphasis on integrative passive sampling," *J Chromatogr A* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TG8-4T7089H-6/2/d83adb2152830a20988fa17ddb5f07c4.

Søeborg T, Basse LH, and Halling-Sørensen B. "Risk assessment of topically applied products," *Toxicology* **2007**, *236*(1-2):140-148. http://www.sciencedirect.com/science/article/B6TCN-4NJWNYK-4/1/a9c23432e53191b09b4ec5436da0f9b3.

Soeborg T, Ingerslev F, and Halling-Sorensen B. "Chemical stability of chlortetracycline and chlortetracycline degradation products and epimers in soil interstitial water," *Chemosphere* 2004,

57(10):1515-1524. http://www.sciencedirect.com/science/article/B6V74-4DN8RHT-S/2/a6bdf8f1af5aed0480677488d6539953.

Soldner A, Christians U, Susanto M, Wacher V, Silverman J, and Benet LZ. "Grapefruit juice activates P-glycoprotein-mediated drug transport," *Pharm Res* **1999**, *16*(4):478.

Sole M, Castillo M, de Alda MJL, Porte C, and Barcelo D. "Estrogenicity determination in carp, Cyprinus carpio: a laboratory and field approach," *Analysis* **2000**, *28*(9):783-788.

Sole M, de Alda MJL, Castillo M, Porte C, Ladegaard-Pedersen K, and Barcelo D. "Estrogenicity determination in sewage treatment plants and surface waters from the Catalonian area (NE Spain)," *Environ Sci Technol* **2000**, *34*(24):5076-5083. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i24/abs/es991335n.html.

Sole M, Porte C, and Barcelo D. "Analysis of the estrogenic activity of sewage treatment works and receiving waters using vitellogenin induction in fish as a biomarker," *TrAC Trends in Anal Chem* **2001**, *20*(9):518-525. http://www.sciencedirect.com/science/article/B6V5H-4417MBN-7/2/2e062e42619ef8513cd29128a40288c0.

Sole M, Raldua D, Barcelo D, and Porte C. "Long-term exposure effects in vitellogenin, sex hormones, and biotransformation enzymes in female carp in relation to a sewage treatment works," *Ecotoxicol Environ Safety* **2003**, *56*(3):373-380. http://www.sciencedirect.com/science/article/B6WDM-4834GGD-2/2/903489fa79bec7dc853b2a33d85a21e6.

Sole M, Raldua D, Piferrer F, Barcelo D, and Porte C. "Feminization of wild carp, Cyprinus carpio, in a polluted environment: plasma steroid hormones, gonadal morphology and xenobiotic metabolizing system," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2003**, *136*(2):145-156. http://www.sciencedirect.com/science/article/B6W89-49PX4HR-7/2/c207e1d3d671bac14960db7a1685f04c.

Soliman MA, Pedersen JA, Park H, Castaneda-Jimenez A, Stenstrom MK, and Suffet IH. "Human pharmaceuticals, antioxidants, and plasticizers in wastewater treatment plant and water reclamation plant effluents," *Wat Environ Res* **2007**, *79*(2):156-167. http://www.ncbi.nlm.nih.gov/pubmed/17370841.

Soliman MA, Pedersen JA, and Suffet IH. "Rapid gas chromatography-mass spectrometry screening method for human pharmaceuticals, hormones, antioxidants and plasticizers in water," *J Chromatogr A* **2004**, *1029*(1-2):223-237. http://www.sciencedirect.com/science/article/B6TG8-4BG8V0Y-3/2/8cfc0f7d94b779c29b18ad74608d8c6e.

Soller JA, Olivieri AW, Crook J, Cooper RC, Tchobanoglous G, Parkin RT, et al. "Risk-Based Approach To Evaluate the Public Health Benefit of Additional Wastewater Treatment," *Environ Sci Technol* **2003**, *37*(9):1882-1891.

http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es025774p.

Solomon KR, Lissemore L, Brain RA, Sibley PK, and Mabury SA. "Agricultural pharmaceuticals in the environment: Fate, effects, and risks," *Abstracts of Papers of the AmChem Soc* **2006**, *231*(March 26).

Sommer C, and Bibby BM. "The influence of veterinary medicines on the decomposition of dung organic matter in soil," *European J Soil Biol* **2002**, *38*(2):155-159. http://www.sciencedirect.com/science/article/B6VR7-45TRYHB-7/2/dd1b902c9169bfed67bea1c62caef49f.

Sone K, Hinago M, Kitayama A, Morokuma J, Ueno N, Watanabe H, et al. "Effects of 17[beta]estradiol, nonylphenol, and bisphenol-A on developing Xenopus laevis embryos," *General Comparative Endocrinol* **2004**, *138*(3):228-236. http://www.sciencedirect.com/science/article/B6WG0-4D34K2R-4/2/79c678eea5ef050c38fa0ae2843ead22.

Song SJ, Song QJ, and Chen ZL. "Online phototransformation-flow injection chemiluminescence determination of triclosan," *Anal Bioanal Chem* **2007**, *387*(8):2917-2922.

Song W, Cooper WJ, Mezyk SP, Greaves J, and Peake BM. "Free Radical Destruction of Beta-Blockers in Aqueous Solution," *Environ Sci Technol* **2008**, *42*(4):1256-1261. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702245n.

Song W, Ravindran V, and Pirbazari M. "Process optimization using a kinetic model for the ultraviolet radiation-hydrogen peroxide decomposition of natural and synthetic organic compounds in groundwater," *Chem Eng Sci* **2008**, *63*(12):3249-3270. http://www.sciencedirect.com/science/article/B6TFK-4S32NR0-1/2/fdfa75a97fe1e1b6e8d1350db8164124.

Song WL, Huang M, Rumbeiha W, and Li H. "Determination of amprolium, carbadox, monensin, and tylosin in surface water by liquid chromatography/tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2007**, *21*(12):1944-1950.

Song Z, Zhao T, Wang L, and Xiao Z. "Chemiluminescence Flow Sensor for Berberine with Immobilized Reagents," *Bioorganic Medicinal Chem* **2001**, *9*(7):1701-1705. http://www.sciencedirect.com/science/article/B6TF8-439MF3K-7/2/9f1fed507c1ac8083992d94a099c947d.

Soni MG, Burdock GA, Taylor SL, and Greenberg NA. "Safety assessment of propyl paraben: a review of the published literature," *Food Chem Toxicol* **2001**, *39*(6):513-532. http://www.sciencedirect.com/science/article/B6T6P-4325XM5-1/2/27a1571243ca6adf87351b573e4478e6.

Soni MG, Carabin IG, and Burdock GA. "Safety assessment of esters of ρ-hydroxybenzoic acid (parabens)," *Food Chem Toxicol* **2005**, *43*(7):985-1015. http://www.sciencedirect.com/science/article/B6T6P-4FPDRG0-3/2/8f14eecb5f125337c699a202bb9151f3.

Sonnevend A, Rotimi VO, Kolodziejek J, Usmani A, Nowotny N, and Pal T. "High level of ciprofloxacin resistance and its molecular background among Campylobacter jejuni strains isolated in the United Arab Emirates," *J Med Microbiol* **2006**, *55*(11):1533-1538. http://jmm.sgmjournals.org/cgi/content/abstract/55/11/1533. Sorensen L, Stokes JA, Purdie DM, Woodward M, and Roberts MS. "Medication management at home: medication-related risk factors associated with poor health outcomes," *Age Ageing* **2005**, *34*(6):626-632. http://ageing.oxfordjournals.org/cgi/content/abstract/34/6/626.

Sorensen LK, and Elbaek TH. "Simultaneous determination of trimethoprim, sulfadiazine, florfenicol and oxolinic acid in surface water by liquid chromatography tandem mass spectrometry," *Chromatographia* **2004**, *60*(5-6):287-291.

Sorensen LK, and Hansen H. "Determination of sulfadiazine and trimethoprim in marine sediment by LC-APCI-MS," *J Liquid Chromatogr Related Technologies* **2002**, *25*(7):1063 - 1075. http://www.informaworld.com/10.1081/JLC-120003424.

Soto AM, Calabro JM, Prechtl NV, Yau AY, Orlando EF, Daxenberger A, et al. "Androgenic and estrogenic activity in water bodies receiving cattle feedlot effluent in eastern Nebraska, USA," *Environ Health Perspect* **2004**, *112*(3):346-352.

Soto-Chinchilla JJ, García-Campaña AM, and Gámiz-Gracia L. "Analytical methods for multiresidue determination of sulfonamides and trimethoprim in meat and ground water samples by CE-MS and CE-MS/MS," *ELECTROPHORESIS* **2007**, *28*(22):4164-4172. http://dx.doi.org/10.1002/elps.200600848.

Soto-Chinchilla JJ, Garcia-Campana AM, Gamiz-Gracia L, and Cruces-Blanco C. "Application of capillary zone electrophoresis with large-volume sample stacking to the sensitive determination of sulfonamides in meat and ground water," *ELECTROPHORESIS* **2006**, *27*(20):4060-4068.

Soulet B, Tauxe A, and Tarradellas J. "Analysis of acidic drugs in Swiss wastewaters," *Internat J Environ Anal Chem* **2002**, 82(10):659-667. http://www.ingentaconnect.com/content/tandf/geac/2002/0000082/00000010/art00002.

Soungalo T, Soumana D, Moussa S, and Francois R. "Ivermectin in onchocerciasis control in the forest zone of Cote d'Ivoire," *Acta Tropica* **1997**, *68*:297-300.

South JC. "Online resources for news about toxicology and other environmental topics," *Toxicology* **2001**, *157*(1-2):153-164. http://www.sciencedirect.com/science/article/B6TCN-427JW88-D/2/d436e52255f30ffedbc306c0c42a7543.

Spataro V, Toda T, Craig R, Seeger M, Dubiel W, Harris AL, et al. "Resistance to diverse drugs and ultraviolet light conferred by overexpression of a novel human 26 S proteasome subunit," *J Biol Chem* **1997**, *272*(48):30470-30475. http://www.ncbi.nlm.nih.gov/pubmed/9374539.

Specker JL, and Chandlee MK. "Methodology for estradiol treatment in marine larval and juvenile fish: uptake and clearance in summer flounder," *Aquaculture* **2003**, *217*(1-4):663-672. http://www.sciencedirect.com/science/article/B6T4D-478RN03-C/1/648e6d94b1b2e7afc2f486024b6fb7cb.

Spencer PS, Sterman AB, Horopian DS, and Foulds MM. "Neurotoxic fragrance produces ceroid and myelin disease," *Science* **1979**, *204*:633-635.

Spengler P, Korner W, and Metzger JW. "Substances with estrogenic activity in effluents of sewage treatment plants in southwestern Germany. 1. Chemical analysis," *Environ Toxicol Chem* **2001**, *20*(10):2133-2141.

Spongberg AL, and Witter JD. "Pharmaceutical compounds in the wastewater process stream in Northwest Ohio," *Sci Total Environ* **2008**, *397*(1-3):148-157. http://www.sciencedirect.com/science/article/B6V78-4S7HS89-3/1/9f89d9f90587b095eb63116f7c26279b.

Sponza DT, and Demirden P. "Treatability of sulfamerazine in sequential upflow anaerobic sludge blanket reactor (UASB)/completely stirred tank reactor (CSTR) processes," *Sep Purification Technol* **2007**, *56*(1):108-117. http://www.sciencedirect.com/science/article/B6THJ-4KPNVV4-2/2/cc0b000d72426c554042afb92651dd6e.

Spring AJ, Bagley DM, Andrews RC, Lemanik S, and Yang P. "Removal of endocrine disrupting compounds using a membrane bioreactor and disinfection," *J Environ Eng Sci* **2007**, *6*(2):131-137.

Sprunger L, Blake-Taylor BH, Wairegi A, Acree Jr WE, and Abraham MH. "Characterization of the retention behavior of organic and pharmaceutical drug molecules on an immobilized artificial membrane column with the Abraham model," *J Chromatogr A* **2007**, *1160*(1-2):235-245. http://www.sciencedirect.com/science/article/B6TG8-4NS2GJ5-D/1/49a23674dfbab286a290dc50d4052a5b.

Squillace PJ, Scott JC, Moran MJ, Nolan BT, and Kolpin DW. "VOCs, pesticides, nitrate, and their mixtures in groundwater used for drinking water in the United States," *Environ Sci Technol* **2002**, *36*(9):1923-1930.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12026972.

SRC "Chemfate database." Syracuse Research Corporation 2008. http://www.syrres.com/esc/chemfate.htm.

Srivastava S, Sinha R, and Roy D. "Toxicological effects of malachite green," *Aqua Toxicol* **2004**, *66*(3):319-329. http://www.sciencedirect.com/science/article/B6T4G-4B5JPWW-1/2/de44ad830739a6712e7abf74e026d852.

Sriviriyarat T, and Randall CW. "Evaluation of integrated fixed film activated sludge wastewater treatment processes at high mean cells residence time and low temperatues," *J Environ Eng-ASCE* **2005**, *131*(11):1550-1556.

http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=JOEEDU000131000011001550 000001&idtype=cvips&gifs=yes.

Sriwiriyarat T, and Randall CW. "Performance of IFAS wastewater treatment processes for biological phosphorus removal," *Wat Res* **2005**, *39*(16):3873-3884. http://www.sciencedirect.com/science/article/B6V73-4H0BSS1-5/1/7c7d10fd6d345ad007e454a610522f11.

St. Pierre N, "Using chicken feed in the war on superbugs," Business Week 14 February, 2000, 82 pp.

Stachel B, Ehrhorn U, Heemken O-P, Lepom P, Reincke H, Sawal G, et al. "Xenoestrogens in the River Elbe and its tributaries," *Environ Pollut* **2003**, *124*(3):497-507. http://www.sciencedirect.com/science/article/B6VB5-48715DX-1/2/5a34113fbdac1626a0ea9a67d895923b.

Stackelberg PE, Furlong ET, Meyer MT, Zaugg SD, Henderson AK, and Reissman DB. "Persistence of pharmaceutical compounds and other organic wastewater contaminants in a conventional drinking-water-treatment plant," *Sci Total Environ* **2004**, *329*(1-3):99-113. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15262161.

Stackelberg PE, Furlong ET, Meyer MT, Zaugg SD, Henderson AK, and Reissman DB. "Response to Comment on "Persistence of pharmaceutical compounds and other organic wastewater contaminants in a conventional drinking-water-treatment plant"," *Sci Total Environ* **2006**, *354*(1):93-97. http://www.sciencedirect.com/science/article/B6V78-4G7G4D1-5/1/2073265dd0f44c366e7e69dfa2b27be3.

Stackelberg PE, Gibs J, Furlong ET, Meyer MT, Zaugg SD, and Lippincott RL. "Efficiency of conventional drinking-water-treatment processes in removal of pharmaceuticals and other organic compounds," *Sci Total Environ* **2007**, *377*(2-3):255-272. http://www.sciencedirect.com/science/article/B6V78-4NB2SFN-2/2/f53e1bb881937baef216d0ad1ab182a7.

Staerk U, and Kulpmann WR. "High-temperature solid-phase microextraction procedure for the detection of drugs by gas chromatography-mass spectrometry," *J Chromatogr B: Biomed Sci Applications* **2000**, *745*(2):399-411. http://www.sciencedirect.com/science/article/B6TG9-4118237-G/2/1208e8c9c949fef0d50d0763996a264f.

Stafiej A, Pyrzynska K, and Regan F. "Determination of anti-inflammatory drugs and estrogens in water by HPLC with UV detection," *J Separation Sci* **2007**, *30*(7):985-991.

Stalcup AM, Sutton RMC, Painuly P, Rodrigo JV, Gratz SR, and Yanes EG. "Continuous free flow electrophoresis for preparative chiral separations of piperoxan using sulfated beta-cyclodextrin," *Analyst* **2000**, *125*:1719-1724.

Stales CA, Peterson DR, Parkerton TF, and Adams WJ. "The environmental fate of phthalate esters: A literature review," *Chemosphere* **1997**, *35*(4):667-749. http://www.sciencedirect.com/science/article/B6V74-3T7J0WW-21/2/5d5d5921117589f890e5d08f78275d4f.

Staley BF, Xu F, Cowie SJ, Barlaz MA, and Hater GR. "Release of Trace Organic Compounds during the Decomposition of Municipal Solid Waste Components," *Environ Sci Technol* **2006**, *40*(19):5984-5991. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060786m.

Stamatelatou K, Frouda C, Fountoulakis MS, Drillia P, Kornaros M, and Lyberatos G. "Pharmaceuticals and health care products in wastewater effluents: The example of carbamazepine," *Wat Sci Technol* **2003**, *3*(4):131-137.

http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053020698.

Stamm C, Alder AC, Fenner K, Hollender J, Krauss M, McArdell CS, et al. "Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review," *Geography Compass* **2008**, 2(3):920-955. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1749-8198.2008.00104.x.

Stan HJ, and Heberer T. "Pharmaceuticals in the aquatic environment," Analysis 1997, 25(7):20-23.

Stan HJ, Heberer T, and Linkerhägner M. "[Occurrence of clofibric acid in the aquatic system - Is the use in human medical care the source of the contamination of surface, ground and drinking water?] Vorkommen von clofibrinsaure im aquatischen system - fuhrt die therapeutische anwendeung zu einer belastung von oberflachen-, grund- und trinkwasser?," *Vom Wasser* **1994**, *83*:57-68.

Standley LF, Kaplan LA, and Smith DL. "Molecular tracers of organic matter sources to surface water resources," *Environ Sci Technol* **2003**, *37*(4):3124-3130. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i15/abs/es991381n.html.

Standley LJ, Rudel RA, Swartz CH, Attfield KR, Christian J, Erickson M, et al. "Wastewater-Contaminated Groundwater as a Source of Endogenous Hormones and Pharmaceuticals to Surface Water Ecosystems," *Environ Toxicol Chem* **2008**, *In Press* http://dx.doi.org/10.1897%2F07-604.1.

Stanko JP, and Angus RA. "In vivo assessment of the capacity of androstenedione to masculinize female mosquitofish (gambusia affinis) exposed through dietary and static renewal methods," *Environ Toxicol Chem* **2007**, *26*(5):920-926.

Stanley JK, Ramirez AJ, Chambliss CK, and Brooks BW. "Enantiospecific sublethal effects of the antidepressant fluoxetine to a model aquatic vertebrate and invertebrate," *Chemosphere* **2007**, *69*(1):9-16. http://www.sciencedirect.com/science/article/B6V74-4P0VCYX-1/1/17817358c21a4d1d9f32103da1d66ae6.

Stanley JK, Ramirez AJ, Mottaleb M, Chambliss CK, and Brooks BW. "Enantiospecific toxicity of the β -blocker propranolol to daphnia magna and pimephales promelas," *Environ Toxicol Chem* **2006**, *25*(7):1780-1786.

Stanley JK, Ramirez AJ, Mottaleb M, Chambliss CK, and Brooks BW. "Enantiospecific toxicity of the beta-blocker propranolol to Daphnia magna and Pimephales promelas.," *Environ Toxicol Chem* **2006**, *25*(7):1780-1786.

Stapleton DR, Emery RJ, Smith C, Pochet C, Fernandez-Dominguez A, and Papadaki M. "Degradation of 2-chloropyridine in water by ultraviolet and ultrasound irradiation," *Internat J Environ Pollut* **2006**, *28*(1-2):87-99.

START Strategien zum Umgang mit Arzneimittelwirkstoffen im Trinkwasser. "Management Strategies for Pharmaceuticals in Drinking Water," 1st International conference on sustainable pharmacy: Strategies and perspectives in development, use and emission management of pharmaceuticals, 2008, http://www.start-project.de/english.htm.

Stasinakis A, Mainais D, Thornaidis N, Danika E, Gatidou G, and Lekkas T. "Inhibitory effect of triclosan and nonylphenol on respiration rates and ammonia removal in activated sludge systems," *Ecotoxicol Environ Safety* **2008**, *70*(2):199-206.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WDM-4RPVJ3T-

2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=de0d650ca5552903dc9a16a9ed9b1720.

Stasinakis AS, Petalas AV, Mamais D, Thomaidis NS, Gatidou G, and Lekkas TD. "Investigation of triclosan fate and toxicity in continuous-flow activated sludge systems," *Chemosphere* **2007**, *68*(2):375-381. http://www.sciencedirect.com/science/article/B6V74-4N6FV6S-5/2/2e824782dfc50fff9a56e918734dd7e3.

Stavrakakis C, Colin R, Hequet V, Faur C, and Le Cloirec P. "Analysis of endocrine disrupting compounds in wastewater and drinking water treatment plants at the nanogram per litre level," *Environ Technol* **2008**, *29*(3):279-286.

http://www.informaworld.com/smpp/content~content=a792950462~db=all~jumptype=rss.

Stavrakakis C, Hequet V, Faur C, Andres Y, Le Cloirec P, and Colin R. "Biodegradation of endocrine disrupters: Case of 17 beta-estradiol and bisphenol A," *Environ Techn* **2008**, *29*(3):269-277. http://www.informaworld.com/smpp/content~db=all~content=a792949855~tab=content.

Stavrovskaya AA. "Cellular mechanisms of multidrug resistance of tumor cells," *Biochemistry (Mosc)* **2000**, *65*(1):95-106.

Stebbing AR. "Hormesis--the stimulation of growth by low levels of inhibitors," *Sci Total Environ* **1982**, *22*(3):213-234.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =7043732.

Stebbing AR. "Hormesis: interpreting the beta-curve using control theory," *J Appl Toxicol* **2000**, *20*(2):93-101. http://www.ncbi.nlm.nih.gov/pubmed/10715606.

Stefano GB, Salzet B, and Salzet M. "Identification and characterization of the leech CNS cannabinoid receptor: coupling to nitric oxide release," *Brain Res* **1997**, *753*(2):219-224. http://www.sciencedirect.com/science/article/B6SYR-3RSGR8V-5/2/76218221c761d728abb3f4085307a9ba.

Steffenak I, Hormazabal V, and Yndestad M. "Reservoir of quinolone residues in fish," *Food Addit Contam* **1991**, *8*(6):777-780.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =1667390.

Steffenak I, Hormazabal V, and Yndestad M. "Effect of cooking on residues of the quinolones oxolinic acid and flumequine in fish," *Acta Vet Scand* **1994**, *35*(3):299-301. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =7847199.

Steger-Hartmann T, Kummerer K, and Hartmann A. "Biological Degradation of Cyclophosphamide and Its Occurrence in Sewage Water," *Ecotoxicol Environ Safety* **1997**, *36*(2):174-179. http://www.sciencedirect.com/science/article/B6WDM-45M8SWY-2X/2/e59f2272ec79e4d9d09fa5c5683ee322. Steger-Hartmann T, Kummerer K, and Schecker J. "Trace analysis of the antineoplastics ifosfamide and cyclophosphamide in sewage water by twostep solid-phase extraction and gas chromatographymass spectrometry," *J Chromatogr A* **1996**, 726(1-2):179-184. http://www.sciencedirect.com/science/article/B6TG8-3TKMJ84-K/2/bba8cafb56045ab209605f413b520880.

Steger-Hartmann T, Lange R, and Schweinfurth H. "Environmental Risk Assessment for the Widely Used Iodinated X-Ray Contrast Agent Iopromide (Ultravist)," *Ecotoxicol Environ Safety* **1999**, *42*(3):274-281. http://www.sciencedirect.com/science/article/B6WDM-45GWFG0-3F/2/8f1b8e9377bbf05f17f7f1e538554b81.

Steger-Hartmann T, Lange R, and Schweinfurth H. "Iodinated x-ray contrast media in the aquatic environment: fate and effects," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 13, 230-243.

Steger-Hartmann T, Lange R, Schweinfurth H, Tschampel M, and Rehmann I. "Investigations into the environmental fate and effects of iopromide (ultravist), a widely used iodinated X-ray contrast medium," *Wat Res* **2002**, *36*(1):266-274. http://www.sciencedirect.com/science/article/B6V73-44CMTJS-12/2/b46a4c2f11ab6d923e34f1fe4749b407.

Stein K, Ramil M, Fink G, Sander M, and Ternes TA. "Analysis and Sorption of Psychoactive Drugs onto Sediment," *Environ Sci Technol* **2008**, http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es702959a.

Steinberg P, Fischer T, Arand M, Park E, Elmadfa I, Rimkus G, et al. "Acute hepatotoxicity of the polycyclic musk 7-acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthaline (AHTN)," *Toxicol Lett* **1999**, *111*(1-2):151-160. http://www.sciencedirect.com/science/article/B6TCR-3Y2F9G6-F/2/cf858ee0e6667ab55cdecbc47228df28.

Steinbrook R. "For Sale: Physicians' Prescribing Data," *N Engl J Med* **2006**, *354*(26):2745-2747. http://content.nejm.org and http://content.nejm.org/cgi/content/full/354/26/2745?query=TOC.

Steinemann A, and Tickner J. "Environment and health: new answers, new questions," *Environ Impact Assessment Rev* **2004**, *24*(7-8):661-665. http://www.sciencedirect.com/science/article/B6V9G-4D5P98H-1/2/ef615fec7409087f362740e7e5352ebb.

Stelzer W, Ziegert E, and Schneider E. "The occurrence of antibiotic-resistant klebsiellae in wastewater," *Zentralbl Mikrobiol* **1985**, *140*:283-291.

Stepanauskas R, Glenn TC, Jagoe CH, Tuckfield RC, Lindell AH, King CJ, et al. "Coselection for microbial resistance to metals and antibiotics in freshwater microcosms," *Environ Microbiol* **2006**, *8*(9):1510-1514.

Stephenson R, and Oppenheimer J. "Fate of Pharmaceuticals and Personal Care Products through Wastewater Treatment Processes," Water Environment Research Foundation (WERF), 03-CTS-22UR, 2007, 112 pp.

http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Resear ch/PublicationProfile.cfm&id=03-CTS-22UR.

Stevens JL, Northcott GL, Stern GA, Tomy GT, and Jones KC. "PAHs, PCBs, PCNs, organochlorine pesticides, synthetic musks, and polychlorinated n-alkanes in U.K. sewage sludge: Survey results and implications," *Environ Sci Technol* **2003**, *37*(3):462-467. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2003/37/i03/html/es020161y.html.

Stevens R. "EPA Biosolids Regulatory Update," Office of Water, Las Vegas, NV, July 8 2008.

Stevenson C, and Davies RJH. "Photosensitization of guanine-specific DNA damage by 2-phenylbenzimidazole and the sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid," *Chem Res Toxicol* **1999**, *12*(1):38.

Stevenson CN, MacManus-Spencer LA, Luchenbach T, Luthy RG, and Epel D. "New prespectives on perfluorochemical ecotoxicology: inhibition and induction of an efflux transporter in marine mussel, Mytilus californianus," *Environ Sci Technol* **2006**, *40*(17):5580-5585. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i17/html/es0602593.html.

Stewart KK, and Hillard SW. "ByT-FAS (Bypass trapped-flow analysis system)," *Talanta* **1998**, *45*:493-505.

Stewart KR, and Koditschek L. "Drug-Resistance Transfer in Escherichia coli in New York Bight Sediment," *Mar Pollut Bull* **1980**, *11*:130-133.

Stierlin H, and Faigle JW. "Biotransformation of diclofenac sodium (Voltaren) in animals and in man. II. Quantitative determination of the unchanged drug and principal phenolic metabolites, in urine and bile," *Xenobiotica* **1979**, *9*(10):611-621. http://www.ncbi.nlm.nih.gov/pubmed/119353.

Stine OC, Johnson JA, Keefer-Norris A, Perry KL, Tigno J, Qaiyumi S, et al. "Widespread distribution of tetracycline resistance genes in a confined animal feeding facility," *Internat J Anticrobial Agents* **2007**, *29*(3):348-352.

Stinson S. "Chiral drug interactions," *Chem Eng News* **1999**, 77(41):101-120. http://cat.inist.fr/?aModele=afficheN&cpsidt=10264458.

Stinson S. "Chiral drugs," Chem Eng News 2000, 23(October):55-78.

Stinson SC. "Chiral pharmaceuticals: Drug firms continue to develop chiral drugs as single enantiomers, to carry out racemic switches, and to use chirality to manage drug life cycles," *Chem Eng News* **2001**, *79*(40):79-97. http://pubs.acs.org/cen/coverstory/7940/7940chiral.html.

Stockholm City Council. "Environmentally Classified Pharmaceuticals," Stockholm, Sweden, January, 2008, 32 pp. http://www.janusinfo.se/imcms/servlet/GetDoc?meta_id=10205.

Stoika R, Yakymovych M, Souchelnytskyi S, and Yakymovych I. "Potential role of transforming growth factor β 1 in drug resistance of tumor cells," *Acta Biochimica Polonica* **2003**, *50*(2):497-508. http://www.ncbi.nlm.nih.gov/pubmed/12833174.

Stoker C, Beldomenico PM, Bosquiazzo VL, Zayas MA, Rey F, Rodriguez H, et al. "Developmental exposure to endocrine disruptor chemicals alters follicular dynamics and steroid levels in Caiman

latirostris," Gen Comp Endocrinol 2008, 156(3):603-612.

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WG0-4RY6WM8-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=3d51aa1a98e4b75f6d9734cd3520b907.

Stolker AAM. "Identification of Residues by LC/MS/MS According to the New European Union Guidelines: Application to the Trace Analysis of Veterinary Drugs and Contaminants in Biological and Environmental Matrices," in ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants Almagor UM, Ed., American Chemical Society, 2003, Chapter 3, http://www.powells.com/biblio?isbn=9780841238251.

Stolker AAM, and Brinkman UAT. "Analytical strategies for residue analysis of veterinary drugs and growth-promoting agents in food-producing animals--a review," *J Chromatogr A* **2005**, *1067*(1-2):15-53. http://www.sciencedirect.com/science/article/B6TG8-4FNW0JF-6/2/95af3280128e3fa8651de8b02276fa48.

Stolker AAM, Niesing W, Hogendoorn EA, Versteegh JFM, Fuchs R, and Brinkman UAT. "Liquid chromatography with triple-quadrupole or quadrupole-time of flight mass spectrometry for screening and confirmation of residues of pharmaceuticals in water," *Anal Bioanal Chem* **2004**, *378*(4):955-963.

Stoob K, Singer HP, Goetz CW, Ruff M, and Mueller SR. "Fully automated online solid phase extraction coupled directly to liquid chromatography-tandem mass spectrometry: Quantification of sulfonamide antibiotics, neutral and acidic pesticides at low concentrations in surface waters," *J Chromatogr A* 2005, *1097*(1-2):138-147. http://www.sciencedirect.com/science/article/B6TG8-4H2FY35-1/2/0cda2d9bdc6379c90fb601943a997056.

Stoob K, Singer HP, Mueller SR, Schwarzenbach RP, and Stamm CH. "Dissipation and Transport of Veterinary Sulfonamide Antibiotics after Manure Application to Grassland in a Small Catchment," *Environ Sci Technol* **2007**, *41*(21):7349-7355. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es070840e.

Stoob K, Singer HP, Stettler S, Hartmann N, Mueller SR, and Stamm CH. "Exhaustive extraction of sulfonamide antibiotics from aged agricultural soils using pressurized liquid extraction," *J Chromatogr A* **2006**, *1128*(1-2):1-9. http://www.sciencedirect.com/science/article/B6TG8-4KCGHXN-4/2/cb05617e0e4da191935abcdf9fd56329.

Storey S. "Challenges with the development and approval of pharamaceuticals for fish," *Aaps J* **2005**, 7(2):E335-343. http://www.ncbi.nlm.nih.gov/pubmed/16353913.

Storrs SI, and Semlitsch RD. "Variation in somatic and ovarian development: Predicting susceptibility of amphibians to estrogenic contaminants," *Gen Comp Endocrinol* **2008**, *156*(3):524-530. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WG0-4S1C2N6-5&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=6729288&md5=b33aa33cc779627a75293f4ee233527c.

Storteboom HN, Kim S-C, Doesken KC, Carlson KH, Davis JG, and Pruden A. "Response of Antibiotics and Resistance Genes to High-Intensity and Low-Intensity Manure Management," *J Environ Qual* **2007**, *36*(6):1695-1703. http://jeq.scijournals.org/cgi/content/abstract/joenq;36/6/1695.

Strachan JL, and Campbell W. "Pharmaceutical production: experiences in the disposal of waste water," *Prog Wat Technol* **1976**, *8*(2-3):1-7.

http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5266237&q=+pha rmaceutical+disposal&uid=790088066&setcookie=yes.

Strandberg L, Johansson M, and Palmquist H. "The flow of chemicals within the sewage systems - possibilities and limitations for risk assessment of chemicals," August, 2001, 42 pp.

Stratchounski LS, Andreeva IV, Ratchina SA, Galkin DV, Petrotchenkova NA, Demin AA, et al. "The Inventory of Antibiotics in Russian Home Medicine Cabinets," *Clinical Infectious Diseases* **2003**, *37*(4):498-505. http://www.journals.uchicago.edu/doi/abs/10.1086/376905.

Straub JO. "Concentrations of the UV filter ethylhexyl methoxycinnamate in the aquatic compartment: a comparison of modelled concentrations for Swiss surface waters with empirical monitoring data," *Toxicol Lett* **2002**, *131*(1-2):29-37. http://www.sciencedirect.com/science/article/B6TCR-45C1T7R-2/2/68566805853b41a276348d3baf709bb7.

Straub JO. "Environmental risk assessment for new human pharmaceuticals in the European Union according to the draft guideline/discussion paper of January 2001," *Toxicol Lett* **2002**, *135*(3):231-237. http://www.sciencedirect.com/science/article/B6TCR-461XK2X-1/2/54fe2083b5c61b149517470e466c1008.

Straub JO, and Stewart KM. "Deterministic and probabilistic acute-based environmental risk assessment for naproxen for Western Europe," *Environ Toxicol Chem* **2007**, *26*(4):795-806.

Strauch G, Möder M, Wennrich R, Osenbrück K, Gläser H-R, Schladitz T, et al. "Indicators for assessing anthropogenic impact on urban surface and groundwater," *J Soils Sediments* **2008**, 8(1):23-33. http://dx.doi.org/10.1065/jss2007.06.234.

Street RA, Stirk WA, and Van Staden J. "South African traditional medicinal plant trade - challenges in regulating quality, safety and efficacy," *J Ethnopharmacol* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T8D-4SVKSPN-4/1/8a89e35ff99894cd1cddb00e19d70e6b.

Strenn B, Clara M, Gans O, and Kreuzinger N. "Carbamazepine, diclofenac, ibuprofen and bezafibrate - investigations on the behaviour of selected pharmaceuticals during wastewater treatment," *Wat Sci Technol* **2004**, *50*(5):269-276.

http://www.cababstractsplus.org/google/abstract.asp?AcNo=20043169168.

Strock TJ, Sassman SA, and Lee LS. "Sorption and related properties of the swine antibiotic carbadox and associated N-oxide reduced metabolites," *Environ Sci Technol* **2005**, *39*(9):3134-3142. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i09/abs/es048623q.html.

Strong L. "Overview: the impact of avermectins on pastureland ecology," *Vet Parasitol* **1993**, *48*(1-4):3-17. http://www.sciencedirect.com/science/article/B6TD7-476VMND-44/1/cfdf985c70f1b58fbcc0db9649ac7e9b.

Strong L, and James S. "Some effects of rearing the yellow dung fly Scatophaga stercoraria in cattle dung containing invermectin," *Entomologia Experimentalis et Applicata* **1992**, *63*(1):39-45. http://dx.doi.org/10.1007/BF00350344.

Strong L, and James S. "Some effects of ivermectin on the yellow dung fly, Scatophaga stercoraria," *Vet Parasitol* **1993**, *48*(1-4):181-191. http://www.ncbi.nlm.nih.gov/pubmed/8346631 http://www.fao.org/agris/search/display.do?f=./1993/v1914/NL9304632.xml;NL9304632.

Strong L, Wall R, Woolford A, and Djeddour D. "The effect of faecally excreted ivermectin and fenbendazole on the insect colonisation of cattle dung following the oral administration of sustained-release boluses," *Vet Parasitol* **1996**, *62*(3-4):253-266. http://www.ingentaconnect.com/content/els/03044017/1996/00000062/0000003/art00890 http://dx.doi.org/10.1016/0304-4017(95)00890-X.

Stuard SB, Caudill D, and Lehman-Mckeeman LD. "Characterization of the Effects of Musk Ketone on Mouse Hepatic Cytochrome P450 Enzymes," *Fundamental Applied Toxicol* **1997**, *40*(2):264-271. http://www.sciencedirect.com/science/article/B6WFT-45M8VHF-D/2/20268b6685dfe185bd3e2c8395d159bf.

Stuer-Lauridsen F, Birkved M, Hansen LP, Holten Lützhøft HC, and Halling-Sørensen B. "Environmental risk assessment of human pharmaceuticals in Denmark after normal therapeutic use," *Chemosphere* **2000**, *40*(7):783-793. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-39/1/f9c93a85ea04e242052dad44c5426db8.

Stulten D, Lamshoft M, Zuhlke S, and Spiteller M. "Isolation and characterization of a new human urinary metabolite of diclofenac applying LC-NMR-MS and high-resolution mass analyses," *J Pharm Biomed Anal* **2008**, *47*(2):371-376. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TGX-4RMFNY2-2&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=8b0949338c959874f49c0e5375e84225.

Stülten D, Zühlke S, Lamshöft M, and Spiteller M. "Occurrence of diclofenac and selected metabolites in sewage effluents," *Sci Total Environ* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V78-4T1SFH5-1/1/c378bb29f0855a731a627595e144bb41.

Stumpe B, and Marschner B. "Long-term sewage sludge application and wastewater irrigation on the mineralization and sorption of 17[beta]-estradiol and testosterone in soils," *Sci Total Environ* **2007**, *374*(2-3):282-291. http://www.sciencedirect.com/science/article/B6V78-4N3P539-3/2/037448246da68ead946cc59ecd894315.

Stumpf M, Ternes TA, Haberer K, and Baumann W. "Determination of natural and synthetic estrogens in sewage plants and river water," *Vom Wasser* **1996**, 87:251-261.

Stumpf M, Ternes TA, Haberer K, and Baumann W. "Isolierung von ibuprofen-metaboliten und deren bedeutung als kontaminanten der aquatischen umwelt," *Vom Wasser* **1998**, *91*:291-303.

Stumpf M, Ternes TA, Haberer K, and Seel P. "[Determination of pharmaceuticals in sewage plants and river water] Nachweis von Arzneimittelruckstanden in Klaranlagen und Fliessgewassern," *Vom Wasser* **1996**, *86*:291-303.

Stumpf M, Ternes TA, Haberer K, Seel P, and Baumann W. "Nachweis von Arzneimittelrückständen in Kläranlagen und Fließgewässern" (Determination of drugs in sewage treatment plants and river water)," *Vom Wasser* **1996**, *86*:291-303.

Stumpf M, Ternes TA, Wilken R-D, Silvana Vianna R, and Baumann W. "Polar drug residues in sewage and natural waters in the state of Rio de Janeiro, Brazil," *Sci Total Environ* **1999**, 225(1-2):135-141. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-F/2/e704a01b0dcbc702fe5f40266d764c22.

Sturve J, Almroth BC, and Forlin L. "Oxidative stress in rainbow trout (Oncorhynchus mykiss) exposed to sewage treatment plant effluent," *Ecotoxicol Environ Saf* **2008**, *70*(3):446-452. http://www.ncbi.nlm.nih.gov/pubmed/18234334.

Suárez S, Carballa M, Omil F, and Lema J. "How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?," *Rev Environ Sci Biotechnol* **2008**, *7*(2):125-138. http://dx.doi.org/10.1007/s11157-008-9130-2.

Suarez S, Dodd MC, Omil F, and von Gunten U. "Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: Relevance to municipal wastewater ozonation," *Wat Res* **2007**, *41*(12):2481-2490. http://www.sciencedirect.com/science/article/B6V73-4NKJ19T-2/2/0bc95dfbf875b3b69c50fb7600ea7e11.

Suarez S, Ramill M, Omil F, and Lema JMRopacin-dpWSaT, 52(8), 9-14. "Removal of pharmaceutically active compounds in nitrifying-denitrifying plants," *Wat Sci Technol* **2005**, *52*(8):9-14.

Subrahmanyam K, and Yadaiah P. "The impact of paleo-channel on groundwater contamination, Andhra Pradesh, India," *Environ Geol* **2000**, *40*:169-183.

Subratty AH, and Nathire MEH. "A survey on home generated medical waste in Mauritius," *Internat J Environ Health Res* **2005**, *15*(1):45-52.

Substance Abuse and Mental Health Services Administration, and Office of Applied Studies. "Drug Abuse Warning Network, 2005: National Estimates of Drug-Related Emergency Department Visits," US Department of Health and Human Services, 2007. http://dawninfo.samhsa.gov/files/DAWN-ED-2005-Web.pdf.

Substances C "Checmical Substances in Batch 2 of the Challenge," Government of Canada http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/batch-lot_2_e.html#ReleaseofDraft.

Suchara EA, Budziak D, Martendal E, Costa LLF, and Carasek E. "A combination of statistical and analytical evaluation methods as a new optimization strategy for the quantification of pharmaceutical residues in sewage effluent," *Anal Chimica Acta* **2008**, *613*(2):169-176. http://www.sciencedirect.com/science/article/B6TF4-4S0YXR9-2/2/a9f1722fa7cd50d546e688e69c3ff8c2. Suedee R, Srichana T, Chuchome T, and Kongmark U. "Use of molecularly imprinted polymers from a mixture of tetracycline and its degradation products to produce affinity membranes for the removal of tetracycline from water," *J Chromatogr B: Biomed Sci Applications* **2004**, *811*(2):191-200. http://www.sciencedirect.com/science/article/B6X0P-4DF44MW-2/2/598f38887da7fe6dbfd9a50e3d7d9575.

Sugise T, Hayashida Y, Hanafusa T, Nanjo E, and Yamashita I. "Monitoring of vasculogenesisinhibiting activities in sewage effluents by using medaka embryos," *Environ Sci Technol* **2006**, *40*(6):2051-2055. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i06/abs/es051956i.html.

Suidan MT, Esperanza M, Zein M, McCauley P, Brenner RC, and Venosa AD. "Challenges in biodegradation of trace organic contaminants - Gasoline oxygenates and sex hormones," *Wat Environ Res* **2005**, *77*(1):4-11.

Sukul P, Lamshöft M, Zühlke S, and Spiteller M. "Photolysis of 14C-sulfadiazine in water and manure," *Chemosphere* **2008**, *71*(4):717-725. http://www.sciencedirect.com/science/article/B6V74-4RWC85N-1/1/13dcce46a705348337dadb3a84fbab5f.

Sukul P, and Spiteller M. "Sulfonamides in the environment as veterinary drugs," *Rev Environ Contam Toxocol* **2006**, *187*:67-101.

Suling V, and Wolfram T. "Determination of selected pharmaceutical products in water of Bremen," *Vom Wasser* **2000**, *95*:269-278.

Sullivan C, Mitchelmore CL, Hale RC, and Van Veld PA. "Induction of CYP1A and DNA damage in the fathead minnow (Pimephales promelas) following exposure to biosolids," *Sci Total Environ* **2007**, *384*(1-3):221-228. http://www.sciencedirect.com/science/article/B6V78-4P47V04-4/2/806de0103929245c1d7a76269a4eaa27.

Suman Raj DS, and Anjaneyulu Y. "Evaluation of biokinetic parameters for pharmaceutical wastewaters using aerobic oxidation integrated with chemical treatment," *Process Biochem* 2005, *40*(1):165-175. http://www.sciencedirect.com/science/article/B6THB-4CBDD17-1/2/4fa32b7ebe7bf25fc57a6a65084f04d4.

Summers AO. "Generally overlooked fundamentals of bacterial genetics and ecology," *Clin Infect Dis* **2002**, *34*(Suppl 3):85-92.

Summerton L, Clark J, Greenwood R, Mills G, Boxall A, Touraud E, et al. "Proceedings of: Environmental Stewardship of Pharmaceuticals and Policy Instruments," Central Science Laboratories, York, UK, 29-30 April, 2008, Deliverable number D5.3 http://www.knappe-eu.org/fichiers/47-D5.3%20_Proceedings_York_Ecopharmacostewarship.pdf.

Sumpter JP. "Environmental effects of human pharmaceuticals," *Drug Information J* **2007**, *41*(2):143-147. http://cat.inist.fr/?aModele=afficheN&cpsidt=18628554.

Sumpter JP, and Johnson AC. "Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment," *Environ Sci Technol* **2005**, *39*(12):4321-4332. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i12/abs/es048504a.html.

Sumpter JP, and Johnson AC. "Response to comment on 'Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment'," *Environ Sci Technol* **2006**, *40*(3):1086-1087. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i03/html/es0523082.html.

Sumpter JP, Johnson AC, Williams RJ, Kortenkamp A, and Scholze M. "Modeling effects of mixtures of endocrine disrupting chemicals at the river catchment scale," *Environ Sci Technol* **2006**, *40*(17):5478-5489. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i17/abs/es052554d.html.

Sun H, Li L, and Chen X. "Flow-injection chemiluminescence determination of ofloxacin and levofloxacin in pharmaceutical preparations and biological fluids," *Anal Sci* **2006**, *22*(8):1145-1149. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16896259.

Sun H-w, Li L-q, Chen X-y, Shi H-m, and Lue Y-k. "Determination of norfloxacin by flow injection analysis with chemiluminescence detection," *Canadian J Anal Sci Spectroscopy* **2006**, *51*(2):100-107.

Sun J, Chen Y, Deng L, Wu F, and Deng NS. "Photodegradation of environmental endocrine disruptors in water in the presence of Fe(III)-carboxylate complexes," *Fres Environ Bull* **2006**, *15*(2):113-117.

Sun L, Zha J, Spear PA, and Wang Z. "Tamoxifen effects on the early life stages and reproduction of Japanese medaka (Oryzias latipes)," *Environ Toxicol Pharmacol* **2007**, *24*(1):23-29. http://www.sciencedirect.com/science/article/B6T6D-4MVVSR1-2/2/b3c285b0b5e8e172fd8daa223300e6e0.

Sun N, McMullan M, Papakonstantinou P, Gao H, Zhang X, Mihailovic D, et al. "Bioassembled nanocircuits of Mo6S9-xIx nanowires for electrochemical immunodetection of estrone hapten," *Anal Chem* **2008**, *80*(10):3593-3597. http://www.ncbi.nlm.nih.gov/pubmed/18407671 http://pubs.acs.org/cgi-bin/abstract.cgi/ancham/2008/80/i10/abs/ac7024893.html.

Sun Q, Deng S, Huang J, Shen G, and Yu G. "Contributors to estrogenic activity in wastewater from a large wastewater treatment plant in Beijing, China," *Environ Toxicol Pharmacol* **2008**, *25*(1):20-26. http://www.sciencedirect.com/science/article/B6T6D-4PFW6B2-4/2/056a1df8b669d274f453ef4c96f6b0b9.

Sun XY, Chen H, Gao H, and Guo XQ. "Screening of tetracycline residues in fish muscles by CCD camera-based solid-surface fluorescence," *J Agric Food Chem* **2006**, *54*(26):9687-9695.

Sun Y, Wada M, Kuroda N, Hirayama K, Nakazawa H, and Nakashima K. "Simultaneous determination of phenolic xenoestrogens by solid-phase extraction and high-performance liquid chromatography with fluorescence detection," *Anal Sciences* **2001**, *17*:697-702.

Sun Z, Schüssler W, Sengl M, Niessner R, and Knopp D. "Selective trace analysis of diclofenac in surface and wastewater samples using solid-phase extraction with a new molecularly imprinted polymer," *Anal Chim Acta* **2008**, *620*(1-2):73-81. http://www.sciencedirect.com/science/article/B6TF4-4SJG69M-

3/1/ee19226105580c9f47e30dd68e5a4a6e.

Suntisukaseam U, Weschayanwiwat P, and Sabatini DA. "Sorption of Amphiphile Pharmaceutical Compounds onto Polar and Nonpolar Adsorbents," *Environ Eng Sci* **2007**, *24*(10):1457-1466. http://www.liebertonline.com/doi/abs/10.1089/ees.2006.0279.

SuperArray Bioscience Corporation "Pathway Central." 2008. http://www.superarray.com/pathwaycentral.php.

Surfers Against Sewage (SAS). "Surfers Against Sewage," *Environ Health Perspect* **1996**, *104*(7):Forum.

Suter Eichenberger R, Altorfer H, Lichtensteiger W, and Schlumpf M. "Bioaccumulation of musk xylene (MX) in developing and adult rats of both sexes," *Chemosphere* **1998**, *36*(13):2747-2762.

Suter MJF, and Giger W. "Trace determinants of emerging water pollutants: Endocrine disruptors, pharmaceuticals, and specialty chemicals," *CHIMIA* **2000**, *54*:13-16.

Suvilampi J, Lehtomaki A, and Rintala J. "Comparative study of laboratory-scale thermophilic and mesophilic activated sludge processes," *Wat Res* **2005**, *39*(5):741-750. http://www.sciencedirect.com/science/article/B6V73-4F9FPW1-2/2/77398f86ede7506ca64f3027709aee1b.

Suzuki K, Hirai H, Murata H, and Nishida T. "Removal of estrogenic activities of 17 beta-estradiol and ethinylestradiol by ligninolytic enzymes from white rot fungi," *Wat Res* **2003**, *37*(8):1972-1975.

Suzuki S, Kobayashi T, Suehiro F, Tuyen BC, and Tana TS. "High Occurrence Rate of Tetracycline (TC)-Resistant Bacteria and TC Resistance Genes Relates to Microbial Diversity in Sediment of Mekong River Main Waterway," *Microbes Environ* **2008**, *23*(2):149-152. http://www.jstage.jst.go.jp/article/jsme2/23/2/23_149/_article.

Suzuki T, Kitamura S, Khota R, Sugihara K, Fujimoto N, and Ohta S. "Estrogenic and antiandrogenic activities of 17 benzophenone derivatives used as UV stabilizers and sunscreens," *Toxicol Appl Pharmacol* **2005**, *203*(1):9-17.

Suzuki T, Yaguchi K, Suzuki S, and Suga T. "Monitoring of Phthalic Acid Monoesters in River Water by Solid-Phase Extraction and GC-MS Determination," *Environ Sci Technol* **2001**, *35*(18):3757-3763. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es001860i.

Suzuki Y, and Maruyama T. "Fate of natural estrogens in batch mixing experiments using municipal sewage and activated sludge," *Wat Res* **2006**, *40*(5):1061-1069. http://www.sciencedirect.com/science/article/B6V73-4J9X2PP-6/2/ea168b042150f9648aa04eed04777584.

Svendsen TS, Sommer C, Holter P, and Gronvold J. "Survival and growth of Lumbricus terrestris (Lumbricidae) fed on dung from cattle given sustained-release boluses of ivermectin or fenbendazole," *Eur J Soil Biol* **2002**, *38*(3):319-322.

http://www.ingentaconnect.com/content/els/11645563/2002/00000038/00000003/art01167 http://dx.doi.org/10.1016/S1164-5563(02)01167-6 http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6VR7-45TY87T-M&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versio n=1&_urlVersion=0&_userid=6729288&md5=c2a40a11fbe37704ea3d8e0d4073fc5f.

Svenson A, and Allard AS. "Occurrence and some properties of the androgenic activity in municipal sewage effluents," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2004**, *39*(3):693-701.

Swan G, Naidoo V, Cuthbert R, Green RE, Pain DJ, Swarup D, et al. "Removing the threat of diclofenac to critically endangered Asian vultures," *Plos Biol* **2006**, *4*(3):395-402. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1351921.

Swan GE, Cuthbert R, Queved M, Green RE, Pain DJ, Bartels P, et al. "Toxicity of diclofenac to Gyps vultures," *Biolog Lett* **2006**, *2*(2):279-282. <Go to ISI>://CCC:000241862500031.

Swanson RL. "Ocean dumping of municipal and industrial wastes in the United States " in *Marine waste management: Science and policy*, Oceanic Processes in Marine Pollution Year Unknown, 35-52. http://mdl.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5817841&q=+pha rmaceutical+disposal&uid=790088066&setcookie=yes.

Swanson SM, Swanson SM, and Fraikin CG. "Multiple Stressors: Risk-Based Framework and Experimental Design for Cause/Effect Relationships," Water Environment Research Foundation (WERF), 2005, 145 pp.

 $http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Research/PublicationProfile.cfm&id=00-ECO-2.$

Swart HC, du Preez JL, de Villiers MM, Lotter AP, and Liebenberg W. "Correlation between in vitro release from topical delivery vehicles and microbicidal activity of triclosan," *Pharmazie* **2006**, *61*(1):35-40.

Swart N, and Pool E. "Rapid Detection of Selected Steroid Hormones from Sewage Effluents using an ELISA in the Kuils River Water Catchment Area, South Africa," *J Immunoassay Immunochem* **2007**, *28*(4):395 - 408. http://www.informaworld.com/10.1080/15321810701603799.

Swartz CH, Reddy S, Benotti MJ, Yin HF, Barber LB, Brownawell BJ, et al. "Steroid estrogens, nonylphenol ethoxylate metabolites, and other wastewater contaminants in groundwater affected by a residential septic system on Cape Cod, MA," *Environ Sci Technol* **2006**, *40*(16):4894-4902. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i16/abs/es052595+.html.

Swartz CH, Rudel RA, Kachajian JR, and Brody JG. "Historical reconstruction of wastewater and land use impacts to groundwater used for public drinking water: Exposure assessment using chemical data and GIS," *J Expo Anal Environ Epidemiol* **2003**, *13*(5):403-416.

Swarup D, and Patra RC. "Environmental pollution and its impact on domestic animals and wildlife," *Indian J Animal Sci* **2005**, 75:231-240.

Swati M, Rema T, and Joseph K. "Hazardous organic compounds in urban municipal solid waste from a developing country," *J Hazardous Mat* **2008**, *In Press, Accepted Manuscript*:209.

http://www.sciencedirect.com/science/article/B6TGF-4S0YXT3-1/2/7bbb69da29637a88bef8146b20658c03.

Swissmedic "Swiss Pharmaceutical Compendium." Swiss Agency for Therapeutic Products 2008. http://www.swissmedic.ch/?lang=2.

Szczepanowski R, Bekel T, Goesmann A, Krause L, Krömeke H, Kaiser O, et al. "Insight into the plasmid metagenome of wastewater treatment plant bacteria showing reduced susceptibility to antimicrobial drugs analysed by the 454-pyrosequencing technology," *J Biotechnol* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6T3C-4SPYKBN-1/1/998eab93fc465b25cc97b904a1e01d4e.

Szprengier-Juszkiewicz T. "Veterinary drugs - principles of environmental risk assessment," *Medycyna Weterynaryjna* **2002**, *58*(3):169-174.

Szymanski A, Rykowska I, and Wasiak W. "New ketoimine sorbents in solid phase extraction for HPLC analysis of bisphenol a [sic-bisphenol A] and other "endocrine disrupting" residues in drinking water," *Polish J Environ Studies* **2006**, *15*:479-483.

T. S-H, Länge R, and Schweinfurth H. "Umweltverhalten und ökotoxikologische Berwertung von iodhaltigen Röntgenkontrastmitteln. Environmental behavior and ecotoxicological assessment," *Vom Wasser* **1998**, *91*:185-194.

Tabak HH, Bloomhuff RN, and Bunch RL. "Steroid hormones as water pollutants II. Studies on the persistence and stability of natural urinary and synthetic ovulation-inhibiting hormones and treated wastewaters," *Dev Ind Microbiol* **1981**, 22:497-519.

Tabak HH, and Bunch RL. "Steroid hormones as water pollutants I. Metabolism of natural and synthetic ovulation-inhibiting hormones by microorganisms of activated sludge and primary settled sewage," *Dev Ind Microbiol* **1970**, *11*:367-376.

Tacon AGJ, and Forster IP. "Aquafeeds and the environment: policy implications," *Aquaculture* **2003**, 226:181-189.

Takahashi Y, Tojo T, Nagahora S, and Yamazaki K. "Direct determination of estrogenic and antiestrogenic activities using an enhanced plant two-hybrid system," *J Agric Food Chem* **2007**, *55*(8):2923-2929.

Takao Y, Shimaza M, Fukuda M, Ishibashi H, Nagae M, Kohra S, et al. "Seasonal and diurnal fluctuations in the concentrations of the pharamaceutials and personal care products (PPCPs) in residential sewage water," *J Health Sci* **2008**, *54*(2):240-243. http://www.jstage.jst.go.jp/article/jhs/54/2/54 240/ article.

Talebi M, Rahimi F, Katouli M, Möllby R, and Pourshafie M. "Epidemiological Link Between Wastewater and Human Vancomycin-Resistant Enterococcus faecium Isolates," *Current Microbiol* **2008**, *56*(5):468-473. http://dx.doi.org/10.1007/s00284-008-9113-0.

Tamagawa Y, Yamaki R, Hirai H, Kawai S, and Nishida T. "Removal of estrogenic activity of natural steroidal hormone estrone by ligninolytic enzymes from white rot fungi," *Chemosphere* **2006**,

65(1):97-101. http://www.sciencedirect.com/science/article/B6V74-4JMM5KM-1/2/1528565cae5753e8f4514c684412a1d8.

Tamosiunas V, and Padarauskas A. "Comparison of LC and UPLC coupled to MS-MS for the determination of sulfonamides in egg and honey," *Chromatographia* **2008**, *67*(9-10):783-788. http://www.springerlink.com/content/712hm13k3m140145/.

Tamtam F, Mercier F, Le Bot B, Eurin J, Tuc Dinh Q, Clement M, et al. "Occurrence and fate of antibiotics in the Seine River in various hydrological conditions," *Sci Total Environ* **2008**, *393*(1):84-95. http://www.sciencedirect.com/science/article/B6V78-4RPD78W-1/2/c737ed7a6e91c03003bd36ccb45222fc.

Tan X. "P-glycoprotein and Membrane Permeability as Determinants for Xenobiotic Bioavailability and Bioaccumulation " Doctoral Dissertation, Shandong Medical University Comparative Biomedical Sciences Shandong, China, 2007. 157 pp. http://etd.lsu.edu/docs/available/etd-11152007-101053/.

Tan Y-T, Tillett DJ, and McKay IA. "Molecular strategies for overcoming antibiotic resistance in bacteria," *Mol Med Today* **2000**, *6*(8):309-314. http://www.sciencedirect.com/science/article/B6T9S-40WKVX7-D/1/bb4fd2c58759c1266d3ebade43477370.

Tanabe S. "Synthetic musks--arising new environmental menace?," *Mar Pollut Bull* **2005**, *50*(10):1025-1026. http://www.sciencedirect.com/science/article/B6V6N-4GX6JC5-3/2/d874d4f8e81d90fd214da0a35b01f8ce.

Tarazona JV, Buzby ME, Hartmann A, Housenger JE, Olejniczak K, Sager NB, et al. "Scientific basis for aquatic environmental risk assessment of human pharmaceuticals," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 8, 269-302.

Tarling MM, Berg N, Struning L, and Walton A. "The use of absorbent materials for the disposal of controlled drugs," *Anaesthesia* **1996**, *51*(9):836-838. http://dx.doi.org/10.1111/j.1365-2044.1996.tb12612.x.

Tarrant AM, Atkinson MJ, and Atkinson S. "Effects of steroidal estrogens on coral growth and reproduction," *Mar Ecol - Progress Series* **2004**, *269*:121-129.

Tarrant H, Mousakitis G, Wylde S, Tattersall N, Lyons A, Maloney M, et al. "Raised plasma vitellogenin in male wild brown trout (salmo trutta) near a wastewater treatment plant in Ireland," *Environ Toxicol Chem* **2008**, *27*(8):1773-1779. http://dx.doi.org/10.1897%2F07-436.1.

Tarver T. ""Just Add Water": Regulating and Protecting the Most Common Ingredient," *J Food Sci* **2008**, *73*(1):R1-R13. http://www.blackwell-synergy.com/doi/abs/10.1111/j.1750-3841.2007.00611.x.

Tas JW, Balk F, Ford RA, and van de Plassche EJ. "Environmental risk assessment of musk ketone and musk xylene in the Netherlands in accordance with the EU-TGD," *Chemosphere* **1997**, *35*(12):2973-3002. http://www.sciencedirect.com/science/article/B6V74-3XSJXKM-S/2/1979d4c4c589808c20f25b3ab19fe8dd.

Tashiro Y, Takemura A, Fujii H, Takahira K, and Nakanishi Y. "Livestock wastes as a source of estrogens and their effects on wildlife of Manko tidal flat, Okinawa," *Mar Pollut Bull* **2003**, *47*(1-6):143-147. http://www.sciencedirect.com/science/article/B6V6N-485XFNP-7/2/048797b9c0c926453272f67d2a890062.

Tata V. "Fate and transport of pharmaceutical and personal care products in the Detroit River," Wayne State University, Michigan, 2006. 94 pp. http://wwwlib.umi.com/dissertations/fullcit/1434855.

Tauber R. "Quantitative analysis of pharmaceuticals in drinking water from ten canadian cities," Enviro-Test Laboratories/Xenos Division, Ontario, Canada, 2003, 1-6 pp. http://www.ctv.ca/servlet/ArticleNews/story/CTVNews/20030209/drugs_water030209/.

Taubes G. "The Bacteria Fight Back," Science 2008, 321(5887):356-361. http://www.sciencemag.org.

Taubes G. "The 18 July 2008 show includes pathogenic fungi, resistance genes in natural environments, extremely multi-drug resistant bacteria, and more," Science Podcast, July 18 2008. Podcast: http://www.sciencemag.org/content/vol321/issue5887/images/data/356/DC1/356.mp3 Podcaste transcript: http://www.sciencemag.org/cgi/data/321/5887/423b/DC1/1.

Tauxe Wursch A, and Tarradellas J. "Wastewaters : occurrence of pharmaceutical substances and genotoxicity.," Doctoral Dissertation, Lausanne, Switzerland, 2005. 263 pp. <<u>http://library.epfl.ch/theses/?nr=3280></u>.

Tauxe-Wuersch A, De Alencastro LF, Grandjean D, and Tarradellas J. "Occurrence of several acidic drugs in sewage treatment plants in Switzerland and risk assessment," *Wat Res* **2005**, *39*(9):1761-1772. http://www.sciencedirect.com/science/article/B6V73-4FY9M79-1/2/d860be5e4385995dfe40dd0eec37744b.

Tauxe-Wuersch A, de Alencastro LF, Grandjean D, and Tarradellas J. "Trace determination of tamoxifen and 5-fluorouracil in hospital and urban wastewaters," *Internat J Environ Anal Chem* **2006**, *86*(7):473-485.

Tchakoute VL, Bronsvoort M, Tanya V, Renz A, and Trees AJ. "Chemoprophylaxis of Onchocerca infections: in a controlled, prospective study ivermectin prevents calves becoming infected with O-ochengi," *Parasitology* **1999**, *118*:195-199.

Tchernitchin AN, and Tchernitchin N. "Imprinting of paths of heterodifferentiation by prenatal or neonatal exposure to hormones, pharmaceuticals, pollutants and other agents and conditions," *Med Sci Res* **2008**, *20*(11):391-397. http://cat.inist.fr/?aModele=afficheN&cpsidt=5354044.

TDC Environmental LLC. "Household pharmaceutical waste: Regulatory and management issues," Prepared for the San Francisco Department of the Environment, San Mateo, CA, August, 2004, 24 pp. http://www.tdcenvironmental.com/HouseholdPharmWasteMgtIssuesFinal.pdf.

Teeguarden JG, Dragan Y, and Pitot HC. "Hazard assessment of chemical carcinogens: the impact of hormesis," *J Appl Toxicol* **2000**, *20*(2):113-120. http://www.ncbi.nlm.nih.gov/pubmed/10715608.

Teeter JS, and Meyerhoff RD. "Environmental fate and chemistry of raloxifene hydrochloride," *Environ Toxicol Chem* **2002**, *21*(4):729-736.

Tekin H, Bilkay O, Ataberk SS, Balta TH, Ceribasi IH, Sanin FD, et al. "Use of Fenton oxidation to improve the biodegradability of a pharmaceutical wastewater," *J Haz Mat* **2006**, *136*(2):258-265. http://www.sciencedirect.com/science/article/B6TGF-4J2TSV8-5/1/d13306ffa537a79b9f9364584f2e169f.

Teleosis Institute. "Special Edition on Green Pharmacy: Preventing Pharmaceutical Pollution," *Symbiosis: J Ecolog Sustainable Med* **2007**, *4*(2):1-48. http://www.teleosis.org/pdf/symbiosis/SymbiosisVol4No2.pdf.

Teleosis Institute. "The Green Pharmacy Program," 2008, pp. http://www.teleosis.org/pdf/GreenPharmacy_FullPreliminaryReport.pdf.

Teles M, Pacheco M, and Santos MA. "Biotransformation, stress and genotoxic effects of 17 betaestradiol in juvenile sea bass (Dicentrarchus labrax L.)," *Environ Internat* **2006**, *32*(4):470-477.

Telscher MJH, Schuller U, Schmidt B, and Schäffer A. "Occurrence of a nitro metabolite of a defined nonylphenol isomer in soil/sewage sludge mixtures," *Environ Sci Technol* **2005**, *39*(20):7896-7900. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2005/39/i20/html/es050551v.html.

Temizsoy A, Cetin E, and Arayici S. "The effect of S sub(0)/X sub(0) ratio on inert COD fraction in pharmaceutical wastewaters under aerobic and anaerobic treatment," *Fres Environ Bull* **2005**, *14*(6):463-467.

ter Laak TL, Gebbink WA, and Tolls J. "Estimation of soil sorption coefficients of veterinary pharmaceuticals from soil properties," *Environ Toxicol Chem* **2006**, *25*(4):933-941.

ter Laak TL, Gebbink WA, and Tolls J. "The effect of pH and ionic strength on the sorption of sulfachloropyridazine, tylosin, and oxytetracycline to soil," *Environ Toxicol Chem* **2006**, *25*(4):904-911. http://www.ncbi.nlm.nih.gov/pubmed/16629129.

Ternes T. "Pharmaceuticals and metabolites as contaminants of the aquatic environment," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC ACS Symposium Series 791, 2001, Chapter 2, 39-54.

Ternes T. "Vorkommen von Pharmaka in Gewässern," *Wasser und Boden [Wasser Boden]* **2001**, *53*(4):9-14. http://services.inist.fr/cgibin/public/views_doc?file=/applis/services/topic/data/00/00/70/80/35400009505497/35400009505497 0020.art&modele=eng/a_view91.htm.

Ternes T. "The occurrence of micopollutants in the aquatic environment: a new challenge for water management," *Wat Sci Technol* **2007**, *55*(12):327-332. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17674867.

Ternes T, Bonerz M, and Schmidt T. "Determination of neutral pharmaceuticals in wastewater and rivers by liquid chromatography-electrospray tandem mass spectrometry," *J Chromatogr A* 2001,

938(1-2):175-185. http://www.sciencedirect.com/science/article/B6TG8-43WTHM6-1/2/b3ae3e388c189030727c5d3e5e3834b7.

Ternes T, Janex-Habibi M-L, Knacker T, Kreuzinger N, and Siegrist H. "Assessment of technologies for the removal of pharmaceuticals and personal care products in sewage and drinking water facilities to imporve the indirect potable water resuse," POSEIDON Project, August, 2004, 61. http://poseidon.bafg.de/servlet/is/2888/Final-Report-POSEIDON-

Feb_2005.pdf?command=downloadContent&filename=Final-Report-POSEIDON-Feb_2005.pdf http://poseidon.bafg.de/servlet/is/2884/

http://poseidon.bafg.de/servlet/is/2888/.

Ternes T, Rombke J, Loffler D, and Meller M. "Behaviour of selected human and veterinary pharmaceuticals in aquatic compartments and soil," Environmental Research of the Federal Ministry of the Environment, Nature Conservation and Nuclear Safety, 299 67 401/01, 2004, 148 pp. http://bib1lp1.rz.tubs.de/docportal/servlets/MCRFileNodeServlet/DocPortal_derivate_00002658/Umweltbundesamt_Text e 05 05.pdf;jsessionid=0000iQnPjvFsgAdAkxYk5ELZdGd?hosts=local.

Ternes T, and Wilken R-D. "Toxicology Letters (special issue devoted to musks in the environment)," *Toxicol Lett* **1999**, *111*(1-2):1-187.

Ternes TA. "Occurrence of drugs in German sewage treatment plants and rivers," *Wat Res* **1998**, *32*(11):3245-3260. http://www.sciencedirect.com/science/article/B6V73-3V7BJ7D-5/2/0bf9cf58848e0ed6a66fd92ad327ca80.

Ternes TA. "Preface - Drugs and hormones as pollutants of the aquatic environment: determination and ecotoxicological impacts," *Sci Total Environ* **1999**, 225:1-2.

Ternes TA. "Trace determinations of emerging water pollutants: Endocrine disruptors, pharmaceuticals, and specialty chemicals," *CHIMIA* **2000**, *54*:13-16.

Ternes TA. "Pharmaceutical pollutants," Biofutur 2001, 216:44-46.

Ternes TA. "Analytical methods for the determination of pharmaceuticals in aqueous environmental samples," *TrAC Trends in Analytical Chemistry* **2001**, *20*(8):419-434. http://www.sciencedirect.com/science/article/B6V5H-43RYR47-4/2/349c64d4ced42376764b2c26eef11494.

Ternes TA. "EU-Project Poseidon: Assessment of technologies for the removal of pharmaceuticals and personal care products in sewage and drinking water facilities to improve the indirect potable water reuse," 2008, xxx pp. http://poseidon.bafg.de/servlet/is/2884/.

Ternes TA, Andersen H, Gilberg D, and Bonerz M. "Determination of estrogens in sludge and sediments by liquid extraction and GC/MS/MS," *Anal Chem* **2002**, *74*(14):3498-3504.

Ternes TA, Bonerz M, Herrmann N, Loffler D, Keller E, Lacida BB, et al. "Determination of pharmaceuticals, iodinated contrast media and musk fragrances in sludge by LC tandem MS and GC/MS," *J Chromatogr A* **2005**, *1067*(1-2):213-223.

http://www.sciencedirect.com/science/article/B6TG8-4DX26WB-2/2/815d7a4f69d47ce3165d968e4fb6dafb.

Ternes TA, Bonerz M, Herrmann N, Teiser B, and Andersen HR. "Irrigation of treated wastewater in Braunschweig, Germany: An option to remove pharmaceuticals and musk fragrances," *Chemosphere* **2007**, *66*(5):894-904. http://www.sciencedirect.com/science/article/B6V74-4PNJ1KR-H/2/88bebfe808b003173a8785232459321b.

Ternes TA, Hany J, Baumann W, and Nagel R. "Contributions to the analysis of organic xenobiotics in fish," *Fres J Anal Chem* **1994**, *351*(8):790-797. http://dx.doi.org/10.1007/BF00323638.

Ternes TA, Herrmann N, Bonerz M, Knacker T, Siegrist H, and Joss A. "A rapid method to measure the solid-water distribution coefficient (Kd) for pharmaceuticals and musk fragrances in sewage sludge," *Wat Res* **2004**, *38*(19):4075-4084. http://www.sciencedirect.com/science/article/B6V73-4DD93VK-1/2/bee2f6bd1cc11dab2b8078bd48811988.

Ternes TA, and Hirsch R. "Occurrence and behavior of X-ray contrast media in sewage facilities and the aquatic environment," *Environ Sci Technol* **2000**, *34*(13):2741-2748. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2000/34/i13/abs/es991118m.html.

Ternes TA, Hirsch R, Mueller J, and Haberer K. "Methods for the determination of neutral drugs as well as betablockers and ß2-sympathomimetics in aqueous matrices using GC/MS and LC/MS/MS," *Fres J Anal Chem* **1998**, *362*(3):329-340. http://dx.doi.org/10.1007/s002160051083.

Ternes TA, Hirsch R, Stumpf M, Eggert T, Schuppert B, and Haberer K. "Nachweis und Screening von Arzneimittelrückständen, Diagnostika und Antiseptika in der aquatischen Umwelt. Identification and Screening of Pharmaceuticals, Diagnostics and Antiseptics in the Aquatic Environment," *Bundesministerium für Bildung, Wissenschaft, Forschung Technologie (BMBF)/53170 Bonn/Germany* **1999**.

Ternes TA, and Joss A, Eds., "Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management," IWA Publishing, 2006, 453 pp. http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Ternes TA, Joss A, and Siegrist H. "Scrutinizing pharmaceuticals and personal care products in wastewater treatment," *Environ Sci Technol* **2004**, *38*(20):392A-399A. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =15543724.

Ternes TA, Kreckel P, and Mueller J. "Behaviour and occurrence of estrogens in municipal sewage treatment plants -- I. Investigations in Germany, Canada and Brazil," *Sci Total Environ* **1999**, *225*(1-2):81-90. http://www.ncbi.nlm.nih.gov/pubmed/10028705.

Ternes TA, Kreckel P, and Mueller J. "Behaviour and occurrence of estrogens in municipal sewage treatment plants -- II. Aerobic batch experiments with activated sludge," *Sci Total Environ* **1999**, 225(1-2):91-99. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-9/2/baa482792c2429077d600cfe6d09fef1.

Ternes TA, Meisenheimer M, McDowell D, Sacher F, Brauch HJ, Gulde BH, et al. "Removal of pharmaceuticals during drinking water treatment," *Environ Sci Technol* **2002**, *36*:3855-3863. http://www.ncbi.nlm.nih.gov/pubmed/12322761.

Ternes TA, Stuber J, Herrmann N, McDowell D, Ried A, Kampmann M, et al. "Ozonation: a tool for removal of pharmaceuticals, contrast media and musk fragrances from wastewater?," *Wat Res* **2003**, *37*(8):1976-1982. http://www.sciencedirect.com/science/article/B6V73-47X1R2G-1/2/c71ae743c18ce5e094667927d8305294.

Ternes TA, Stumpf M, Mueller J, Haberer K, Wilken RD, and Servos M. "Behavior and occurrence of estrogens in municipal sewage treatment plants -- I. Investigations in Germany, Canada and Brazil," *Sci Total Environ* **1999**, *225*(1-2):81-90. http://www.sciencedirect.com/science/article/B6V78-3Y9RKF0-8/2/3005123f95acad03e52637c295a8b844.

Ternes TA, Stumpf M, Schuppert B, and Haberer K. "Simultaneous Determination of antiseptics and acidic drugs in sewage and river," *Vom Wasser* **1998**, *90*:295-309. http://cat.inist.fr/?aModele=afficheN&cpsidt=2192137.

Ternes TA, and Wilken R-D. "Drugs and Hormones as Pollutants of the Aquatic Environment: Determination and Ecotoxicological Impacts," *Sci Total Environ* **1999**, *225*(1-2):1-176.

Terzic S, Senta I, Ahel M, Gros M, Petrovic M, Barcelo D, et al. "Occurrence and fate of emerging wastewater contaminants in Western Balkan Region," *Sci Total Environ* **2008**, *399*(1-3):66-77. http://www.sciencedirect.com/science/article/B6V78-4S9FH19-5/1/52f22415d7d48fd1c821d637ae2833cf.

Teske J, Weller JP, Larsch K, Troger HD, and Karst M. "Fatal outcome in a child after ingestion of a transdermal fentanyl patch," *Int J Legal Med* **2007**, *121*(2):147-151. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17115172.

Thanasawasdi H, Leckie J, and Mill T. "Photocatalytic oxidation of pharmaceutical compounds: Kinetics and pathways for ibuprofen, clofibric acid, diclofenac and naproxen," *J Advanced Oxidation Technol* **2007**, *10*(2):342-348.

Thanasawasdi HT. "Photocatalytic oxidation of emerging contaminants: Kinetics and pathways for photocatalytic oxidation of pharmaceutical compounds " Doctoral Dissertation, Stanford University, 2007. 118 pp.

http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2209058 ,FM=9,SEARCH=MD.GenericSearch.

Thayer AM. "AG Biotech food: Risky or risk free?," Chem Eng News 1999, November 1:11-19.

Thayer KA, Melnick R, Burns K, Davis D, and Huff J. "Fundamental flaws of hormesis for public health decisions," *Environ Health Perspect* **2005**, *113*(10):1271-1276. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16203233. The Associated Press. "Millions skip meds, don't take pills correctly - Half of patients with chronic illnesses skip doses, study finds," MSNBC, 2007 http://www.msnbc.msn.com/id/20039597/.

The National Advisory Council for Environmental Policy and Technology N. "Everyone's Business: Working Towards Sustainability Through Environmental Stewardship and Collaboration," EPA 130-K-08-001, 2008. http://www.epa.gov/ocem/nacept/reports/pdf/2008-0328-everyones-business-final.pdf.

The Oregon Association of Clean Water Agencies. "OREGON Pharmaceutical Take Back Stakeholder Group," Portland, Oregon, March, 2008, 2 pp. http://www.oracwa.org/downloads/drugtakeback-execsum_0907.pdf?PHPSESSID=c0c9fcb7f4725d44923ec5c6 Complete report available at www.oracwa.org.

Thibaut R, and Porte C. "Effects of Fibrates, Anti-inflammatory Drugs and Antidepressants in the Fish Hepatoma Cell Line PLHC-1: Cytotoxicity and Interactions with Cytochrome P450 1A," *Toxicology in Vitro* **2008**, *22*(5):1128-1135. http://www.sciencedirect.com/science/article/B6TCP-4S03RF5-5/2/7b8983fb982406a447d5a3f60d0783db.

Thibaut R, Schnell S, and Porte C. "The Interference of Pharmaceuticals with Endogenous and Xenobiotic Metabolizing Enzymes in Carp Liver: An In-Vitro Study," *Environ Sci Technol* **2006**, *40*(16):5154-5160. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0607483.

Thiele S. "Adsorption of the antibiotic pharmaceutical compound sulfapyridine by a long-term differently fertilized loess Chernozem," *J Plant Nutrition Soil Sci - Zeitschrift Fur Pflanzenernahrung und Bodenkunde* **2000**, *163*(6):589-594.

Thiele-Bruhn S. "Pharmaceutical antibiotic compounds in soils - a review," *J Plant Nutrition and Soil Sci-Zeitschrift Fur Pflanzenernahrung und Bodenkunde* **2003**, *166*(2):145-167.

Thiele-Bruhn S. "Microbial inhibition by pharmaceutical antibiotics in different soils—dose-response relations determined with the iron (III) reduction test," *Environ Toxicol Chem* **2005**, *24*(4):869-876.

Thiele-Bruhn S, and Aust MO. "Effects of pig slurry on the sorption of sulfonamide antibiotics in soil," *Arch Environ Contam Toxicol* **2004**, *47*(1):31-39.

Thiele-Bruhn S, and Beck I-C. "Effects of sulfonamide and tetracycline antibiotics on soil microbial activity and microbial biomass," *Chemosphere* **2005**, *59*(4):457-465. http://www.sciencedirect.com/science/article/B6V74-4FHJY7W-6/2/ec061804daf02dbc0f3c7161856c3fc7.

Thiele-Bruhn S, Mogk A, and Freitag D. "Consumption of medicinal substances for [sic-substances for] the medication of live-stock in Mecklenburg-Western Pomerania," *Berichte Uber Landwirtschaft* **2003**, *81*(3):374-391.

Thiele-Bruhn S, and Peters D. "Photodegradation of pharmaceutical antibiotics on slurry and soil surfaces," *Lanbauforschung Volkenrode* **2007**, *57*(1):13-23.

Thiele-Bruhn S, Seibicke T, Schulten HR, and Leinweber P. "Sorption of sulfonamide pharmaceutical antibiotics on whole soils and particle-size fractions," *J Environ Qual* **2004**, *33*(4):1331-1342.

Thill A, Zeyons O, Spalla O, Ghauvat F, Rose J, Auffan M, et al. "Cytotoxicity of Ce02 Nanoparticles for Escherichia coli. Physico-Chemical Insight of the Cytotoxicity Mechanism," *Environ Sci Tehcnol* **2006**, *40*(19):6151-6156. http://www.google.com/search?sourceid=navclient&ie=UTF-8&rls=GGLG,GGLG:2006-

12, GGLG: en&q=Cytotoxicity+of+Ce02+nanoparticles+for+escherichia+coli.

Thomas H. "Occurrence, Fate, and Assessment of Polycyclic Musk Residues in the Aquatic Environment of Urban Areas - A Review," *Acta Hydrochim Hydrobiol* **2002**, *30*(5-6):227-243. http://dx.doi.org/10.1002/aheh.200390005.

Thomas JA. "Drugs and chemicals that affect the endocrine system," *Internat J Toxicol* **1998**, *17*(2):129-138. http://www.ingentaconnect.com/content/apl/uito/1998/00000017/0000002/art00003.

Thomas KV, Dye C, Schlabach M, and Langford KH. "Source to sink tracking of selected human pharmaceuticals from two Oslo city hospitals and a wastewater treatment works," *J Environ Monit* **2007**, *9*(12):1410-1418. http://www.ncbi.nlm.nih.gov/pubmed/18049781.

Thomas KV, and Hilton MJ. "The occurrence of selected human pharmaceutical compounds in UK estuaries," *Mar Pollut Bull* **2004**, *49*(5-6):436-444. http://www.sciencedirect.com/science/article/B6V6N-4C47J89-6/1/81e8aa30450503f4c20c44592257e031.

Thomas KV, and Langford K. "Fate and occurrence of pharmaceuticals in the water cycle – Occurrence of pharmaceuticals in the acqueous environment," in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science, 2007, Chapter 3.1, 337-359.

http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Thomas PM, and Foster GD. "Determination of nonsteroidal anti-inflammatory drugs, caffeine, and triclosan in wastewater by gas chromatography-mass spectrometry "*J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng* **2004**, *39*(8):1969-1978.

Thomas PM, and Foster GD. "Tracking acidic pharmaceuticals, caffeine, and triclosan through the wastewater treatment process," *Environ Toxicol Chem* **2005**, *24*(1):25-30. http://cat.inist.fr/?aModele=afficheN&cpsidt=16436426.

Thomas S "Neurotransmitter.net " 2008. http://neurotransmitter.net/.

Thomas-Jones E, Thorpe K, Harrison N, Thomas G, Morris C, Hutchinson T, et al. "Dynamics of estrogen biomarker responses in rainbow trout exposed to 17β -estradiol and 17α -ethinylestradiol," *Environ Toxicol Chem* **2003**, *22*(12):3001-3008.

Thompson A. "The fate and removal of pharmaceuticals during sewage treatment," Doctoral Dissertation, Cranfield University, Department of Water Sciences, School of Applied Sciences, 2005. 296 pp. http://hdl.handle.net/1826/1571.

Thompson A, Griffin P, Stuetz R, and E. C. "The fate and removal of triclosan during wastewater treatment," *Wat Environ Res* **2005**, *77*(1):63-67. http://www.ingentaconnect.com/content/wef/wer/2005/00000077/00000001/art00009.

Thompson B, Adelsbach T, Brown C, Hunt J, Kuwabara J, Neale J, et al. "Biological effects of anthropogenic contaminants in the San Francisco Estuary," *Environ Res* **2007**, *105*(1):156-174. http://www.sciencedirect.com/science/article/B6WDS-4MJJCB3-2/2/3da23f766ea73c5b29f5dcca23394e8a.

Thompson BM. "Ethical strategies that make "good" business sense: Direct-to-consumer advertising of prescription products " Masters Dissertation, Clemson, 2007. 1143 pp.

Thompson RD. "Determination of phenolic disinfectant agents in commercial formulations by liquid chromatography," *J AOAC Internat* **2001**, 84:815-822.

Thompson S. "Physiological indicators of endocrine disruptor exposure in Japanese medaka (Oryzias latipes): Relationship to reproduction and development," Masters Dissertation, University of Mississippi, MS, 2000. pp.

Thompson SA, Maani EV, Lindell AH, King CJ, and McArthur JV. "Novel Tetracycline Resistance Determinant Isolated from an Environmental Strain of Serratia marcescens," *Appl Environ Microbiol* **2007**, *73*(7):2199-2206. http://aem.asm.org/cgi/content/abstract/73/7/2199.

Thorne PS. "Environmental health impacts of concentrated animal feeding operations: Anticipating hazards - Searching for solutions," *Environ Health Perspect* **2007**, *115*(2):296-297. http://www.ehponline.org/docs/2007/115-2/toc.html.

Thornton J. "Beyond risk: An ecological paradigm to prevent global chemical pollution," *Internat J Occupational Environ Health* **2000**, *6*(4):318-330.

Thorpe K, Benstead R, Eccles P, Maack G, Williams T, and Tyler C. "A practicable laboratory flowthrough exposure system for assessing the health effects of effluents in fish," *Aqua Toxicol* **2008**, 88(3):164-172. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4G-4S9P5K4-1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1& urlVersion=0& userid=6729288&md5=0ab1cb625d698f5abe3fd89330aac301.

Thorpe KL, Cummings RI, Hutchinson TH, Scholze M, Brighty G, Sumpter JP, et al. "Relative potencies and combination effects of steroidal estrogens in fish," *Environ Sci Technol* **2003**, *37*(6):1142-1149. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i06/abs/es0201348.html.

Thorpe KL, Gross-Sorokin M, Johnson I, Brighty G, and Tyler CR. "An assessment of the model of concentration addition for predicting the estrogenic activity of chemical mixtures in wastewater treatment works effluents," *Environ Health Perspect* **2006**, *114*(1):90-97.

Thorpe KL, Hutchinson TH, Hetheridge MJ, Sumpter JP, and Tyler CR. "Development of an in vivo screening assay for estrogenic chemicals using juvenile rainbow trout (oncorhynchus mykiss)," *Environ Toxicol Chem* **2000**, *19*(11):2812-2820. http://dx.doi.org/10.1897%2F1551-5028%282000%29019%3C2812%3ADOAIVS%3E2.0.CO%3B2.

Thorrold CA, Letsoalo ME, Dusé AG, and Marais E. "Efflux pump activity in fluoroquinolone and tetracycline resistant Salmonella and E. coli implicated in reduced susceptibility to household antimicrobial cleaning agents," *Internat J Food Microbiol* **2007**, *113*(3):315-320. http://www.sciencedirect.com/science/article/B6T7K-4MFCVRT-3/1/34855b5dee6550f24e53e792b0bc7f47.

Thurman EM, Ferrer I, Benotti M, and Heine CE. "Intramolecular isobaric fragmentation: A curiosity of accurate mass analysis of sulfadimethoxine in pond water," *Anal Chem* **2004**, *76*(5):1228-1235.

Tickner J, Raffensperger C, and Myers N. "The precautionary principle in action: A handbook," 1-23 pp. http://www.mindfully.org/Precaution/Precaution-In-Action-Handbook.htm or http://www.biotech-info.net/handbook.pdf.

Tierney KB, Sampson JL, Ross PS, Sekela MA, and Kennedy CJ. "Salmon Olfaction is Impaired by an Environmentally Realistic Pesticide Mixture," *Environ Sci Technol* **2008**, *42*(13):4996-5001. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es800240u.

Till AE. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. Streams, 1999-2000: a national reconnaissance'," *Environ Sci Technol* **2003**, *37*(5):1052-1053; author reply 1054. http://www.ncbi.nlm.nih.gov/pubmed/12666941.

Till AE. "Pharmaceutical data do not elude researchers," *Environ Sci Technol* **2005**, *39*(19):392A. http://www.ncbi.nlm.nih.gov/pubmed/16245794.

Till AE. "The detection of pharmaceutical compounds in surface water is a matter of significant interest to the pharmaceutical industry," *Sci Total Environ* **2005**, *350*(1-3):273-275.

Till AE. "Pharmaceutical data do not elude researchers," *Environ Sci Technol* **2005**, *39*(19):392A; author reply 392A.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16245794.

Tillett T. "Getting Straight on What's Flushed "Sewage Epidemiology" Measures Community Drug Consumption," *Environ Health Perspect* **2008**, *116*(8):A350. http://www.ehponline.org/docs/2008/116-8/toc.html.

Tilton F, Benson WH, and Schlenk D. "Evaluation of estrogenic activity from a municipal wastewater treatment plant with predominantly domestic input," *Aqua Toxicol* **2002**, *61*(3-4):211-224. http://www.sciencedirect.com/science/article/B6T4G-45XT6MJ-1/2/a601ae1b2720e65383d09f95b7fbbc7e.

Tilton SC, Foran CM, and Benson WH. "Relationship between ethinylestradiol-mediated changes in endocrine function and reproductive impairment in Japanese medaka (Oryzias latipes)," *Environ Toxicol Chem* **2005**, *24*(2):352-359. http://www.ncbi.nlm.nih.gov/pubmed/15719995.

Tinwell H, Lefevre PA, Moffat GJ, Burns A, Odum J, Spurway TD, et al. "Confirmation of uterotrophic activity of 3-(4-methylbenzylidine)camphor in the immature rat," *Environ Health Perspect* **2002**, *110*(5):533-536. http://www.ncbi.nlm.nih.gov/pubmed/12003759?dopt=Citation.

Tipparat P, Lapanantnoppakhun S, Jakmunee J, and Grudpan K. "Determination of diphenhydramine hydrochloride in some single tertiary alkylamine pharmaceutical preparations by flow injection spectrophotometry," *J Pharmaceutical Biomed Anal* **2002**, *30*(1):105-112. http://www.sciencedirect.com/science/article/B6TGX-45WGHTH-4/2/3ce89c09d772ddee0a941326be2d1d84.

Tischler/Kocurek. "Potential Contribution of Unused Medicines to Environmental Concentrations of Pharmaceuticals," Pharmaceutical Research and Manufacturers of America, Washington, DC, September, 2007, 63 pp.

Tisler T, and Erzen NK. "Abamectin in the aquatic environment," *Ecotoxicology* **2006**, *15*(6):495-502. http://www.springerlink.com/content/a4666048741t631t/.

Tixier C, Singer HP, Canonica S, and Muller SR. "Phototransformation of Triclosan in Surface Waters: A Relevant Elimination Process for This Widely Used Biocide-Laboratory Studies, Field Measurements, and Modeling," *Environ Sci Technol* **2002**, *36*(16):3482-3489. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es025647t.

Tixier C, Singer HP, Oellers S, and Muller SR. "Occurrence and Fate of Carbamazepine, Clofibric Acid, Diclofenac, Ibuprofen, Ketoprofen, and Naproxen in Surface Waters," *Environ Sci Technol* **2003**, *37*(6):1061-1068. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es025834r.

Toft G, and Baatrup E. "Sexual Characteristics Are Altered by 4-tert-Octylphenol and 17[beta]-Estradiol in the Adult Male Guppy (Poecilia reticulata)," *Ecotoxicol Environ Safety* **2001**, *48*(1):76-84. http://www.sciencedirect.com/science/article/B6WDM-458W5CT-1V/2/aa7c710d0c223b46fba5db3668cac6a9.

Toft G, and Baatrup E. "Altered sexual characteristics in guppies (Poecilia reticulata) exposed to 17[beta]-estradiol and 4-tert-octylphenol during sexual development," *Ecotoxicol Environ Safety* **2003**, *56*(2):228-237. http://www.sciencedirect.com/science/article/B6WDM-482YXFF-7/2/b30f0d6393584fa7d0be5c42c78ce786.

Toft G, Edwards TM, Baatrup E, and Guillette LJ, Jr. "Disturbed sexual characteristics in male mosquitofish (Gambusia holbrooki) from a lake contaminated with endocrine disruptors," *Environ Health Perspect* **2003**, *111*(5):695-701.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =12727596.

Togola A, and Budzinski H. "Analytical development for analysis of pharmaceuticals in water samples by SPE and GC-MS," *Anal Bioanal Chem* **2007**, *388*(3):627-635.

Togola A, and Budzinski H. "Development of Polar Organic Integrative Samplers for Analysis of Pharmaceuticals in Aquatic Systems," *Anal Chem* **2007**, *79*(17):6734-6741. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac070559i.

Togola A, and Budzinski H. "Multi-residue analysis of pharmaceutical compounds in aqueous samples," *J Chromatogr A* **2008**, *1177*(1):150-158. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TG8-4R3C06P- 1&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version =1&_urlVersion=0&_userid=6729288&md5=343c0aa67122144ff0de840b511fb2ac.

Tokumoto T, Tokumoto M, Horiguchi R, Ishikawa K, and Nagahama Y. "Diethylstilbestrol induces fish oocyte maturation," *Proceedings Nat Academy Sci PNAS* **2004**, *101*(10):3686-3690.

Tollefsen KE. "Interaction of estrogen mimics, singly and in combination, with plasma sex steroidbinding proteins in rainbow trout (Oncorhynchus mykiss)," *Aqua Toxicol* **2002**, *56*(3):215-225. http://www.sciencedirect.com/science/article/B6T4G-44W2SNF-6/2/252ebdbdd86940a21838f060eeb39f66.

Tollefson J. "Raking through sludge exposes a stink," *Nature* **2008**, *453*:262-263. http://www.nature.com/news/2008/080514/pdf/453262a.pdf.

Tolls J. "Sorption of veterinary pharmaceuticals in soils: A review," *Environ Sci Technol* **2001**, *35*(17):3397-3406. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2001/35/i17/abs/es0003021.html.

Tolstikova T, Tolstikov A, and Tolstikov G. "On the way to low-dose medicines," *Herald Russian Acad Sci* **2007**, 77(5):447-453. http://www.springerlink.com/content/c43247p13u606387/ http://dx.doi.org/10.1134/S1019331607050012.

Tominaga N, Ura K, Kawakami M, Kawaguchi T, Kohra S, Mitsui Y, et al. "*Caenorhabditis elegans* Responses to Specific Steroid Hormones," *J Health Sci* 2003, *49*(1):28-33. ">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http://www.jstage.jst.go.jp/article>">http:/

Topp E, Hendel J, Lapen D, and Chapman R. "Fate of the nonsteroidal anti-inflammatory drug naproxen in agricultural soil receiving liquid municipal biosolids," *Environ Toxicol Chem* **2008**, *preprint*(2008):1. http://dx.doi.org/10.1897%2F07-644.1.

Topp E, Hendel JG, Lu ZX, and Chapman R. "Biodegradation of caffeine in agricultural soils," *Canadian J Soil Sci* **2006**, *86*(3):533-544.

Topp E, Monteiro SC, Beck A, Coelho BB, Boxall ABA, Duenk PW, et al. "Runoff of pharmaceuticals and personal care products following application of biosolids to an agricultural field," *Sci Total Environ* **2008**, *396*(1):52-59. http://www.sciencedirect.com/science/article/B6V78-4S69S31-3/1/0d77954561e4149819e6257af7cc5ee7.

Torneke K, Bergstrom U, and Neil A. "Interactions of xylazine and detomidine with alpha(2)-adrenoceptors in brain tissue from cattle, swine and rats," *J Vet Pharmacol Therapeut* **2003**, *26*:205-211.

Torres AC, Romero AM, and Calatayud JM. "FIA-fluorimetric determination of adrenaline in pharmaceutical formulations by oxidation with molecular oxygen," *Microchimica Acta* **1998**, *128*:187-190.

Touraki M, Niopas I, and Kastritsis C. "Bioaccumulation of trimethoprim, sulfamethoxazole and N-acetyl-sulfamethoxazole in Artemia nauplii and residual kinetics in seabass larvae after repeated oral dosing of medicated nauplii," *Aquaculture* **1999**, *175*(1-2):15-30.

http://www.sciencedirect.com/science/article/B6T4D-3WFN9SY-2/1/12826e9a3475c15da871427c08380ac2.

Touraki M, Rigas P, Pergandas P, and Kastritsis C. "Determination of Oxytetracycline in the Live Fish Feed Artemia Using High-Performance Liquid-Chromatography with Ultraviolet Detection," *J Chromatogr B - Biomed Appl* **1995**, *663*(1):167-171.

Townsend T. "Detection of selected pharmaceutical compounds and determination of their fate in modern lined landfills," Unknown.

Townshend A, Murillo Pulgarin JA, and Alanon Pardo MT. "Flow injection-chemiluminescence determination of propranolol in pharmaceutical preparations," *Anal Chimica Acta* **2003**, *488*(1):81-88. http://www.sciencedirect.com/science/article/B6TF4-48YVWW0-3/2/ebed2fd559a4837e9527715d243615eb.

Townshend A, Youngvises N, Wheatley RA, and Liawruangrath S. "Flow-injection determination of cinnarizine using surfactant-enhanced permanganate chemiluminesence," *Anal Chimica Acta* **2003**, *499*(1-2):223-233. http://www.sciencedirect.com/science/article/B6TF4-4B0NY5M-1/2/729b43b48833cca5abba587cc9097a23.

Toze S. "Water reuse and health risks -- real vs. perceived," *Desalination* **2006**, *187*(1-3):41-51. http://www.sciencedirect.com/science/article/B6TFX-4J444DP-8/2/0aed6eb80518825919bc7f5aeebcd115.

Toze S. "Reuse of effluent water--benefits and risks," *Agric Wat Management* **2006**, *80*(1-3):147-159. http://www.sciencedirect.com/science/article/B6T3X-4GXVG73-1/2/ba058cdb97ac1131c6ba674834a1f0dd.

Tozer S. "The importance of establishing reliable consumer exposure to chemicals in personal care products in the TTC process," *Toxicology* **2007**, *240*(3):132-133. http://www.sciencedirect.com/science/article/B6TCN-4PCXXS3-1C/2/026011c9b03a8d1f89f4c497c24273b4.

Trautwein C, Kümmerer K, and Metzger JW. "Aerobic biodegradability of the calcium channel antagonist verapamil and identification of a microbial dead-end transformation product studied by LC-MS/MS," *Chemosphere* **2008**, 72(3):442-450. http://www.sciencedirect.com/science/article/B6V74-4S7HWGG-4/1/1d714b83066b81ec8d23aac05563f5a8.

Traviesa-Alvarez JM, Costa-Fernandez JM, Pereiro R, and Sanz-Medel A. "Direct screening of tetracyclines in water and bovine milk using room temperature phosphorescence detection," *Anal Chimica Acta* **2007**, *589*(1):51-58. http://www.sciencedirect.com/science/article/B6TF4-4N5TNB3-1/2/f4cff0f8279d1431b4dc11f636a5f7c8.

Travis J. "Popularity of germ fighter raises concern," Sci News 2000, 157:342.

Travis J. "Nicotine metabolism may spawn carinogen," *Sci News* **2000**, *158*(18):278. http://se02.xif.com/articles/20001028/fob5.asp.

Trenholm RA, Vanderford BJ, Drewes JE, and Snyder SA. "Determination of Household Chemicals Using Gas Chromatography and Liquid Chromatography with Tandem Mass Spectrometry," *J Chromatogr A* **2008**, *1190*(1-2):253-262. http://www.sciencedirect.com/science/article/B6TG8-4RV17M8-6/2/d63c533f95292feb436524919b38e539.

Trenholm RA, Vanderford BJ, Holady JC, Rexing DJ, and Snyder SA. "Broad range analysis of endocrine disruptors and pharmaceuticals using gas chromatography and liquid chromatography tandem mass spectrometry," *Chemosphere* **2006**, *65*(11):1990-1998. http://www.sciencedirect.com/science/article/B6V74-4KSVFWW-1/2/0683bd53ee1985b531ee391d37aa2801.

Triebskorn R, Casper H, Heyd A, Eikemper R, Kohler HR, and Schwaiger J. "Toxic effects of the nonsteroidal anti-inflammatory drug diclofenac: Part II. Cytological effects in liver, kidney, gills and intestine of rainbow trout (Oncorhynchus mykiss)," *Aqua Toxicol* **2004**, *68*(2):151-166. http://www.sciencedirect.com/science/article/B6T4G-4CBVNCP-2/2/02202d68e33dd0e3ec7fdd6051b9b765.

Triebskorn R, Casper H, Scheil V, and Schwaiger J. "Ultrastructural effects of pharmaceuticals (carbamazepine, clofibric acid, metoprolol, diclofenac) in rainbow trout (Oncorhynchus mykiss) and common carp (Cyprinus carpio)," *Anal Bioanal Chem* **2007**, *387*(4):1405-1416

Tripodi V, Flor S, Carlucci A, and Lucangioli S. "Simultaneous determination of natural and synthetic estrogens by EKC using a novel microemulsion," *ELECTROPHORESIS* **2006**, *27*(22):4431-4438.

Trivedi P, and Vasudevan D. "Spectroscopic investigation of ciprofloxacin speciation at the goethite – water interface," *Environ Sci Technol* **2007**, *41*(9):3153-3158. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i09/abs/es061921y.html.

Trivedi P, and Vasudevan D. "Spectroscopic Investigation of Ciprofloxacin Speciation at the Goethite-Water Interface," *Environ Sci Technol* **2007**, *41*(9):3153-3158. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061921y.

Trosken E-R. "Toxicological evaluation of azole fungicides in agriculture and food chemistry," Doctoral Dissertation, Bayerischen Julius-Maximilians- Universitat Wurzburg, Wurzburg, 2005. 140 pp. http://deposit.ddb.de/cgibin/dokserv?idn=979445124&dok var=d1&dok ext=pdf&filename=979445124.pdf.

Trovo AG, Melo SAS, and Nogueira RFP. "Photodegradation of the pharmaceuticals amoxicillin, bezafibrate and paracetamol by the photo-fenton process - application to sewage treatment plant effluent," *J Photochem Photobiol A: Chem* **2008**, *198*(2-3):215-220. http://www.sciencedirect.com/science/article/B6TGY-4S5FJDN-1/2/3d883631a934f798437a842d62b1fe74.

Trudeau VL, Turque N, Le Mevel S, Alliot C, Gallant N, Coen L, et al. "Assessment of estrogenic endocrine-disrupting chemical actions in the brain using in vivo somatic gene transfer," *Environ Health Perspect* **2005**, *113*(3):329-334.

Trussell R. "Endocrine disruptors and the water industry," J Am Wat Works Assoc 2001, 93(2):58-65.

Tsagarakis KP, Mellon RC, Stamataki E, and Kounalaki E. "Identification of Recycled Water with an Empirically Derived Symbol Increases Its Probability of Use," *Environ Sci Technol* **2007**, *41*(20):6901-6908. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0627491.

Tsai S-W, Shih M-W, and Pan Y-P. "Determinations and residual characteristics of triclosan in household food detergents of Taiwan," *Chemosphere* **2008**, *72*(9):1250-1255. http://www.sciencedirect.com/science/article/B6V74-4SS8CFJ-8/1/6a1be1f31b2fa9078f63d4f5117ce2c0.

Tschmelak J, Kumpf M, Proll G, and Gauglitz G. "Biosensor for seven sulphonamides in drinking, ground, and surface water with difficult matrices," *Anal Lett* **2004**, *37*(8):1701-1718.

Tschmelak J, Proll G, and Gauglitz G. "Sub-nanogram per litre detection of the emerging contaminant progesterone with a fully automated immunosensor based on evanescent field techniques," *Anal Chimica Acta* **2004**, *519*(2):143-146. http://www.sciencedirect.com/science/article/B6TF4-4CTTMBG-7/2/8d5f3406a4cf46e4f2840c4520c2fbed.

Tschmelak J, Proll G, and Gauglitz G. "Optical biosensor for pharmaceuticals, antibiotics, hormones, endocrine disrupting chemicals and pesticides in water: Assay optimization process for estrone as example," *Talanta* **2005**, *65*(2):313-323. http://www.sciencedirect.com/science/article/B6THP-4D639KM-1/2/e053593270ea42130740cdd1a6037c79.

Tschmelak J, Proll G, Riedt J, Kaiser J, Kraemmer P, Bárzaga L, et al. "Automated Water Analyser Computer Supported System (AWACSS): Part II: Intelligent, remote-controlled, cost-effective, online, water-monitoring measurement system," *Biosensors and Bioelectronics* **2005**, *20*(8):1509-1519. http://www.sciencedirect.com/science/article/B6TFC-4D60G3T-2/1/e424a11ea21fc69ce041d5be0536d2f4.

Tsuda T, Suga K, Kaneda E, and Ohsuga M. "Determination of 4-nonylphenol, nonylphenol monoethoxylate, nonylphenol diethoxylate and other alkylphenols in fish and shellfish by high-performance liquid chromatography with fluorescence detection," *J Chromatogr B: Biomed Sci Applications* **2000**, *746*(2):305-309. http://www.sciencedirect.com/science/article/B6TG9-41530DR-R/2/f8a4fb726a2eb18f80236081f8a4a983.

Tubbs L, Mathieson T, and Tingle M. "Metabolism of praziquantel in kingfish Seriola lalandi," *Dis Aquat Organ* **2008**, *78*(3):225-233.

http://www.ncbi.nlm.nih.gov/sites/entrez?Db=PubMed&Cmd=ShowDetailView&TermToSearch=183 80221&ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed_Pubmed_ResultsPanel.Pubmed_RVDoc Sum.

Tucker JL. "Green Chemistry, a Pharmaceutical Perspective," *Org Process Res Dev* **2006**, *10*(2):315-319. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/op050227k.

Tudor TL. "Towards the development of a standardised measurement unit for healthcare waste generation," *Resources, Conservation Recycling* **2007**, *50*(3):319-333. http://www.sciencedirect.com/science/article/B6VDX-4KV8TG1-1/1/c93cae84e7b7abebbb31b9e1e76e6611. Tuerk J, Reinders M, Dreyer D, Kiffmeyer TK, Schmidt KG, and Kuss H-M. "Analysis of antibiotics in urine and wipe samples from environmental and biological monitoring--Comparison of HPLC with UV-, single MS- and tandem MS-detection," *J Chromatogr B: Biomed Sci Applications* **2006**, *831*(1-2):72-80. http://www.sciencedirect.com/science/article/B6X0P-4HS3BXH-2/2/133dd2b13b36feaee3b68058b36f84b6.

Tuma RS. "Report: New ways to use old drugs Investigator: Paraskevi Giannokakou," American Association for Cancer Research AACR.

Tuméo E, Gbaguidi-Haore H, Patry I, Bertrand X, Thouverez M, and Talon D. "Are antibioticresistant Pseudomonas aeruginosa isolated from hospitalised patients recovered in the hospital effluents?," *Internat J Hygiene Environ Health* **2008**, *211*(1-2):200-204. http://www.sciencedirect.com/science/article/B7GVY-4NJX4GG-1/1/58f919e477095d64435904c2eff90ac4.

Tunay O, Samuk B, Olmez T, and Kabdasli I. "Application of advanced oxidation to enhance biodegradability of pharmaceutical industry wastewaters," *Fres Environ Bull* **2004**, *13*(10, SI):965-968.

Tungudomwongsa H, Leckie J, and Mill T. "Photocatalytic oxidation of emerging contaminants: Kinetics and pathways for photocatalytic oxidation of pharmaceutical compounds," *J Advanced Oxidation Technol* **2006**, *9*(1):59-64.

Tunkel J, Mayo K, Dnaebel D, Walker JD, and Gray DA. "Use of QSARs to Promote More Cost-Effective Use of Chemical Monitoring Resources. 1. Screening Industrial Chemicals and Pesticides, Direct Food Additives, Indirect Food Additives and Pharmaceuticals for Biodegradation, Bioconcentration and Aquatic To," *Wat Qual Res J Canada* **2004**, *39*(1):35-39.

Turci R, Sottani C, Spagnoli G, and Minoia C. "Biological and environmental monitoring of hospital personnel exposed to antineoplastic agents: a review of analytical methods," *J Chromatogr B: Biomed Sci Applications* **2003**, 789(2):169-209. http://www.sciencedirect.com/science/article/B6X0P-481FJ6H-1/2/d4620a3eb409598ba1668f2b51253c1e.

Turiel E, Bordin G, and Rodriguez AR. "Trace enrichment of (fluoro)quinolone antibiotics in surface waters by solid-phase extraction and their determination by liquid chromatography-ultraviolet detection," *J Chromatogr A* **2003**, *1008*(2):145-155. http://www.sciencedirect.com/science/article/B6TG8-490H1S9-7/2/7e9dad02c03cada64b9b13aba735079f.

Turiel E, Bordin G, and Rodriguez AR. "Determination of quinolones and fluoroquinolones in hospital sewage water by off-line and on-line solid-phase extraction procedures coupled to HPLC-UV," *J Separation Sci* **2005**, *28*(3):257-267.

Turiel E, Bordin G, and Rodriguez AR. "Study of the evolution and degradation products of ciprofloxacin and oxolinic acid in river water samples by HPLC-UV/MS/MS-MS," *J Environ Monit* **2005**, *7*(3):189-195.

Turiel E, Martin-Esteban A, Bordin G, and Rodriguez AR. "Stability of fluoroquinolone antibiotics in river water samples and in octadecyl silica solid-phase extraction cartridges," *Anal Bioanal Chem* **2004**, *380*(1):123-128.

Turiel E, Martin-Esteban A, and Tadeo JL. "Multiresidue analysis of quinolones and fluoroquinolones in soil by ultrasonic-assisted extraction in small columns and HPLC-UV," *Anal Chimica Acta* **2006**, *562*(1):30-35. http://www.sciencedirect.com/science/article/B6TF4-4J9X33R-9/2/f26eaf053083f7684aa3539064a80d61.

Turiel E, Martin-Esteban A, and Tadeo JL. "Molecular imprinting-based separation methods for selective analysis of fluoroquinolones in soils," *J Chromatogr A* **2007**, *1172*(2):97-104. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17961582.

Turker Sacan M, and Akmehmet Balcioglu I. "A case study on algal response to raw and treated effluents from an aluminum plating plant and a pharmaceutical plant," *Ecotoxicol Environ Safety* **2006**, *64*(2):234-243. http://www.sciencedirect.com/science/article/B6WDM-4G314HG-1/2/29067b7546a33df40acfd36cc7fdf45d.

Turnipseed SB, Roybal JE, Pfenning AP, and Kijak PJ. "Use of ion-trap liquid chromatography-mass spectrometry to screen and confirm drug residues in aquacultured products," *Anal Chimica Acta* **2003**, *483*(1-2):373-386. http://www.sciencedirect.com/science/article/B6TF4-47MJ13Y-C/2/ea76635ebc03af41e43e826394f5204d.

Turnipseed SB, Walker CC, Roybal JE, Pfenning AP, and Hurlbut JA. "Confirmation of fluoroquinolones in catfish muscle by electrospray liquid chromatography/mass spectrometry," *J AOAC Internat* **1998**, *81*(3):554-562.

Tweats DJ, Scott AD, Westmoreland C, and Carmichael PL. "Determination of genetic toxicity and potential carcinogenicity in vitro - challenges post the Seventh Amendment to the European Cosmetics Directive," *Mutagenesis* **2007**, *22*(1):5-13.

Twombly R. "Boston pee party," *Environ Health Perspect* **2001**, *109*(5):A204. http://findarticles.com/p/articles/mi_m0CYP/is_5_109/ai_76798890.

Tyler C, Routledge E, and van Aerle R. "Estrogenic effects of treated sewage effluent on fish: steroids and surfactants in English rivers," in *The Toxicology of Fishes*, DiGiulio RT and Hinton DE, Eds., CRC Press, 2008, 25, 971-1002. http://books.google.com/books?hl=en&lr=&id=aOfEXLNMLugC&oi=fnd&pg=PA971&dq=+pharma ceutical+OR+drug+OR+ppcps+OR+phacs+%22sewage%22+-elsevier&ots=2HoNSLgJEO&sig=uw4J8yHV Eoro97S4gJQWXOcqRE#PPR9,M1.

Tyler CR, Jobling S, and Sumpter JP. "Endocrine Disruption in Wildlife: A Critical Review of the Evidence," *Critical Reviews in Toxicology* **1998**, *28*(4):319 - 361. http://www.informaworld.com/10.1080/10408449891344236.

Tyler CR, and Routledge EJ. "Oestrogenic effects in fish in English rivers with evidence of their causation," *Pure Appl Chem* **1998**, *70*(9):1795-1804.

Tyler CR, Spary C, Gibson R, Santos EM, Shears J, and Hill EM. "Accounting for differences in estrogenic responses in rainbow trout (Oncorhynchus mykiss: Salmonidae) and roach (Rutilus rutilus: Cyprinidae) exposed to effluents from wastewater treatment works," *Environ Sci Technol* **2005**, *39*(8):2599-2607. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i08/abs/es0488939.html.

Tyler CR, van Aerle R, Hutchinson TH, Maddix S, and Trip H. "An in vivo testing system for endocrine disruptors in fish early life stages using induction of vitellogenin," *Environ Toxicol Chem* **1999**, *18*(2):337-347. http://dx.doi.org/10.1897%2F1551-5028%281999%29018%3C0337%3AAIVTSF%3E2.3.CO%3B2.

Tyler CR, van Aerle R, Nilsen MB, Blackwell R, Maddix S, Nilsen BM, et al. "Development and validation of a monoclonal ELISA to quantify vitellogenin in the rainbow trout (Oncorhynchus mykiss) and its application for studies on environmental oestrogens," *Environ Toxicol Chem* **2002**, *21*:47-54.

Tyshenko MG, Phillips KP, Mehta M, Poirier R, and Leiss W. "Risk Communication of Endocrine-Disrupting Chemicals: Improving Knowledge Translation and Transfer," *J Toxicol Environ Health Part B* **2008**, *11*(3):345 - 350. http://www.informaworld.com/10.1080/10937400701876293.

Tysklind M, Fick J, and Kallenborn R. "The spread of drugs in soil and water," in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 3, 40-52. April. http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Uehling MD. "Free drugs from your faucet," *Saloncom Technol* **2001**, http://archive.salon.com/tech/feature/2001/10/25/drugs water/.

Uematsu K. "Effects of drugs on the responses of the ovary to field and nerve stimulation in a tilapia Sarotherodon niloticus [Effects of autonomic neurotropic drugs on the ovarian contraction of tilapia Tilapia nilotica]," *Bull Japanese Soc Scientific Fisheries* **1985**, *51*(1):47-53. http://www.fao.org/agris/search/display.do;jsessionid=4EFB5050FE6C22411A57BC475BA7D940?f= ./1985/v1107/JP8504593.xml;JP8504593.

Uhler GC, Huminski PT, Les FT, and Fong PP. "Cilia-driven rotational behavior in gastropod (Physa elleptica) embroys induced by serotonin and putative serotonin reuptake inhibitors (SSRIs)," *J Exp Zool* **2000**, *286*:414-421.

Ulbert S, Chaves I, and Borst P. "Expression site activation in Trypanosoma brucei with three marked variant surface glycoprotein gene expression sites," *Molecular Biochem Parasitol* **2002**, *120*(2):225-235. http://www.sciencedirect.com/science/article/B6T29-44YWV7K-1/2/c33abe5f0d9d5a418cca5560c41cd138.

Underwood A, "Rivers of doubt," Newsweek June 4, 2007, 58-60.

University of Maine "Safe medicine disposal for ME program," University of Maine Center on Aging http://www.safemeddisposal.com/.

University of Minnesota "Biocatalysis/Biodegradation Database - UM-BBD Pathway Prediction System." 2008. http://umbbd.msi.umn.edu/predict/.

Urase T, Kagawa C, and Kikuta T. "Factors affecting removal of pharmaceutical substances and estrogens in membrane separation bioreactors," *Desalination* **2005**, *178*(1-3):107-113. http://www.sciencedirect.com/science/article/B6TFX-4HBRP0P-D/2/cd167a51589960e1e1343148a9394019.

Urase T, and Kikuta T. "Separate estimation of adsorption and degradation of pharmaceutical substances and estrogens in the activated sludge process," *Wat Res* **2005**, *39*(7):1289-1300. http://www.sciencedirect.com/science/article/B6V73-4FNP2DK-2/2/4deca0f783d4d54a061296ae5ad470f2.

Urase T, and Sato K. "The effect of deterioration of nanofiltration membrane on retention of pharmaceuticals," *Desalination* **2007**, *202*(1-3):385-391. http://www.sciencedirect.com/science/article/B6TFX-4MG7BS6-1S/2/1567936c388f8f41daad5b6e7571ac64.

Urbatzka R, Bottero S, Mandich A, Lutz I, and Kloas W. "Endocrine disrupters with (anti)estrogenic and (anti)androgenic modes of action affecting reproductive biology of Xenopus laevis: I. Effects on sex steroid levels and biomarker expression," *Comp Biochem Physiol Part C: Toxicol Pharmacol* **2007**, *144*(4):310-318. http://www.sciencedirect.com/science/article/B6W89-4M6RXJB-1/2/08e3548ec826c86bfdff9ccda3737ce2.

Urbatzka R, Lutz I, Opitz R, and Kloas W. "Luteinizing hormone, follicle stimulating hormone, and gonadotropin releasing hormone mRNA expression of Xenopus laevis in response to endocrine disrupting compounds affecting reproductive biology," *General Comparative Endocrinol* **2006**, *146*(2):119-125. http://www.sciencedirect.com/science/article/B6WG0-4HR72BS-1/2/c1e36eef8dc3cd6a55773b1ac1592677.

Urbatzka R, van Cauwenberge A, Maggioni S, Vigano L, Mandich A, Benfenati E, et al. "Androgenic and antiandrogenic activities in water and sediment samples from the river Lambro, Italy, detected by yeast androgen screen and chemical analyses," *Chemosphere* **2007**, *67*(6):1080-1087. http://www.sciencedirect.com/science/article/B6V74-4MV71CW-D/2/e7a26035838b6520e9bd016ffcb38230.

Urraca JL, Hall AJ, Moreno-Bondi MC, and Sellergren B. "A stoichiometric molecularly imprinted polymer for the class-selective recognition of antibiotics in aqueous media," *Angewandte Chemie-International Edition* **2006**, *45*(31):5158-5161.

Urraca JL, Moreno-Bondi MC, Hall AJ, and Sellergren B. "Direct Extraction of Penicillin G and Derivatives from Aqueous Samples Using a Stoichiometrically Imprinted Polymer," *Anal Chem* **2007**, *79*(2):695-701. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac061622r.

US Census Bureau. "Historical Census of Housing Tables: Sewage Disposal," 1990. http://www.census.gov/hhes/www/housing/census/historic/sewage.html.

US GAO United States Government Accountability Office "Offshore Marine Aquaculture, Multiple administrative and environmental issues need to be addressed in establishing a US regulatory framework," GAO-08-594, 2008.

US National Library of Medicine "TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases." 2008. http://toxnet.nlm.nih.gov/.

USCG. "Report as of FY 2007 for 2006NC61B: 'Endocrine and Reproductive Effects of the Pharmaceutical Fluoxetine on Native Freshwater Mussels: Proximity to Measured Environmental Concentrations'," Guard UC, 2007. http://water.usgs.gov/wrri/06grants/progress/2006NC61B.pdf.

USEPA. "Profile of the Pharmaceutical Manufacturing Industry," EPA/310-R-97-005 Washington, DC, 1997. http://www.phrma.org/publications/publications/profile02/index.cfm

USEPA. "Endocrine Disruptor Screening Program (EDSP)," Endocrine Disruptor Screening and Testing Advisory Committee, 1998. http://www.epa.gov/scipoly/oscpendo/index.htm.

USEPA. "Development document for final effluent limitations guidelines and standards for the pharmaceutical manufacturing point source category, Office of Water," Water Oo, EPA-821-R-98-005, 1998. http://www.epa.gov/ostwater/guide/pharm/techdev.html or http://www.epa.gov/ostwater/guide/pharm/techdev/tdd.pdf.

USEPA. "Integrated Environmental Decision-Making in the 21st Century," 1999. thttp://www.epa.gov/science1/intenv.htm.

USEPA. "Biosolids generation, use, and disposal in the United State," EPA-530-R-99-009, 1999.

USEPA. "Guidelines for Ecological Risk Assessment, April 1998, Risk Assessment Forum," EPA/630/R-95/002F, Washington, DC, 1999. http://www.epa.gov/ncea/raf/pdfs/ecotxtbx.pdf.

USEPA. "Onsite Wastewater Treatment Systems Manual," EPA-625-R-00-008, 2002.

USEPA. "Meeting on pharmaceuticals in the environment," Research OoRaDsNCfE, Washington, DC, 2005. http://es.epa.gov/ncer/publications/workshop/8-23-2005/finalsummary.pdf.

USEPA. "Prudent Disposal of Unwanted Medications "U.S. Environmental Protection Agency, Office of Children's Health Protection and Environmental Education, Child and Aging Health Protection Division and USEPA Aging Initiative, EPA-AO-OCHP-06-01 2006. <u>http://www.epa.gov/aging/grants/grant-list/2006_0804_solicitation-06b-8.pdf</u>.

USEPA. "Method 1694: Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS," EPA-821-R-08-002, Washington, DC, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303T), 2007. http://www.epa.gov/waterscience.

USEPA. "Method 1698: Steroids and hormones in water, soil, sediment, and biosolids by HRGC/HRMS," EPA-821-R-08-003, Washington, DC, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303T), 2007. http://www.epa.gov/waterscience.

USEPA "Take-back programs or events for unneeded or expired pharmaceuticals," http://www.epa.gov/waterscience/ppcp/other/take-back.html.

USEPA. "2006-2007 targeted national sewage sludge survey," Office of Science & Technology, 2008.

USEPA "Distributed Structure-Searchable Toxicity (DSSTox) Database Network " 2008. http://www.epa.gov/ncct/dsstox/index.html.

USEPA. "Aquatic life criteria for contaminants of emerging concern. Part I. General challenges and recommendations," Prepared by OW/ORD Emerging Contaminants Workgroup, U.S. Environmental Protection Agency, June 3, 2008, 36 pp. http://www.epa.gov/waterscience/criteria/library/sab-emergingconcerns.pdf.

USEPA. "Wastewater, Health Groups Urge EPA To Limit Antibacterial Chemical's Uses," 2008. http://insideepa.com/secure/docnum.asp?f=epa_2001.ask&docnum=7182008_wastewater.

USEPA "Pharmaceuticals and Personal Care Products in Water," Office of Water http://www.epa.gov/waterscience/ppcp/.

USEPA. "Unused Pharmaceuticals in the Health Care Industry: Interim Report," Office of Water, August, 2008, 10 pp. http://www.epa.gov/waterscience/guide/304m/2008/hsi-PRELIM-study-200808.pdf.

USEPA. "EPA Pilot study of pharmaceuticals in fish tissue," Office of Water, August 5, 2008, pp. http://www.epa.gov/waterscience/ppcp/files/fish-pilot.pdf.

USEPA "Targeted national sewage sludge survey," Office of Water http://www.epa.gov/waterscience/ppcp/studies/sewage.html.

USEPA "Analytical methods contaminants of emerging concern - Pharmaceuticals and personal care products (PPCPs) methods development," Office of Water http://www.epa.gov/waterscience/methods/method/ppcp/.

USEPA. "Aquatic life criteria for contaminants of emerging concern. Part II. Illustration of Recommendations Using Data for 17α-ethynylestradiol (EE2)," Prepared by OW/ORD Emerging Contaminants Workgroup, U.S. Environmental Protection Agency, June 3, 2008, 46 pp. http://www.epa.gov/waterscience/criteria/library/sab-emergingconcerns.pdf.

USEPA. "Agency Information Collection Activities: Proposed Collection; Comment Request; Study of Unused Pharmaceuticals from Medical and Veterinary Facilities (New)," EPA ICR Number 2316.01, OMB Control No. 2040-NEW, 2008.

USEPA "ToxCast™ Program: Predicting Hazard, Characterizing Toxicity Pathways, and Prioritizing the Toxicity Testing of Environmental Chemicals," http://www.epa.gov/ncct/toxcast/.

USEPA, and Grumbles BH. "Letter to Senator Inhofe," Office of Water, Washington, DC, 2008.

USFDA. "Guidance for industry for the submission of an environmental assessment in human drug applications and supplements," 1995.

USFDA. "Retrospective review of ecotoxicity data submitted in environmental assessments for public display," Docket No. 96N-0057, Washington, DC, US Food and Drug Administration, 1997.

USFDA. "Guideline on Environmental Impact Assessment (EIAS) for Veterinary Medicinal Products - Phase I," Medicine CfV, EMEA/CVMP/592/98, Rockville, MD, 1998.

USFDA. "A memo on current good manufacturing practice issues on human use pharmaceuticals," 1998.

USFDA. "Guidance for Industry: Environmental Assessment of Human Drug and Biologics Application," Center for Biologics Evaluation and Research, CDER/CBER CMC 6, 1998. http://www.fda.gov/cber/guidelines.htm.

USFDA. "New Fentanyl Warnings: More Needed to Protect Patients," *ISMP Medication Safety Alert* **2005**, http://www.medscape.com/viewarticle/510963.

USFDA. "FDA Authority Over Cosmetics," Colors COoCa, 2005. http://www.cfsan.fda.gov/~dms/cos-206.html.

USFDA. "Guidance for Industry Nonclinical Studies for the Safety Evaluation of Pharmaceutical Excipients " 2005. http://www.fda.gov/cder/Guidance/5544fnl.htm.

USFDA. "Guidance for Industry: Complementary and Alternative Medicine Products and Their Regulation, Draft Guidance," Center for Drug Evaluation and Research C, 2006D-0481, GDL 1, 2006. http://www.fda.gov/cber/guidelines.htm.

USFDA. "Guidance for Industry. Nonclinical safety evaluation of pediatric drug products," Center for Drug Evaluation and Research C, Rockville, MD, 2006. http://www.fda.gov/cder/guidance/index.htm

USFDA. "Guidance for Industry: General Principles for Evaluating the Safety of Compounds Used in Food-producing Animals," July 25, 2006, 42 pp. http://www.fda.gov/cvm/Guidance/GFI003.pdf

USFDA. "Nanotechnology A Report of the U.S. Food and Drug Administration Nanotechnology Task Force "July 25, 2007, pp. <u>http://www.fda.gov/nanotechnology/nano_tf.html</u> http://www.fda.gov/nanotechnology/taskforce/report2007.html.

USFDA "DailyMed: Current Medication Information U.S. National Library of Medicine and National Institutes of Health {database}." 2008. http://dailymed.nlm.nih.gov/dailymed/about.cfm.

USFDA "**Environmental impact: claims for categorical exclusion**," Office of Pharmaceutical Science (OPS) Environmental Impact Review at CDER http://www.fda.gov/cder/OPS/EA exclusions.htm.

USFDA "National Nanotechnology Initiative," http://www.fda.gov/nanotechnology/.

USFDA "Guidance documents." 2008. http://www.fda.gov/cder/guidance/index.htm#clinical%20medicine USFDA "Drugs@FDA." 2008. http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm.

USFDA NCTR "Center for Toxicoinformatics " National Center for Toxicological Research 2008. http://www.fda.gov/nctr/science/centers/toxicoinformatics/index.htm.

USFWS. "Secondary Pentobarbital Poisoning of Wildlife: Pentobarbital-euthanized Carcasses are Poisonous to Scavenging Animals," US Fish and Wildlife Service, 2007. http://www.fws.gov/mountain-prairie/poison.pdf.

USFWS, McGee BL, Pinkney AE, Yonkos LT, and Fisher DJ. "Evaluation of endocrine disrupting effects in Potomic River fish," US Fish and Wildlife Service, CBFO-C03.

USGAO. "Water pollution: Poor quality assurance and limited pollutant coverage undermine EPA's control of toxic substances," GAO/PEMD-94-9, 1994.

USGS. "Endocrine and Reproductive Effects of the Pharmaceutical Fluoxetine on Native Freshwater Mussels: Proximity to Measured Environmental Concentrations," 2007, 8 pp. http://66.102.1.104/scholar?hl=en&lr=&q=cache:txOqGKBMAoYJ:water.usgs.gov/wrri/06grants/prog ress/2006NC61B.pdf+.

USGS "Aquaculture Drug Research and Development," <<u>http://www.umesc.usgs.gov/aquatic/aquaculture_drug.html</u>>.

USGS. "Biosolids, Animal Manure, and Earthworms: Is There a Connection?," 2008, 4 pp. http://toxics.usgs.gov/highlights/earthworms.html.

USGS, Barber LB, Leenheer JA, Pereira WE, Noyes TI, Brown GK, et al. "Contaminants in the Mississippi River," Circular 1133, Reston, VA, 1995. http://pubs.usgs.gov/circ/circ1133/.

USGS, Barnes KK, Kolpin DW, Meyer MT, Thurman EM, Furlong ET, et al. "Water-quality data for pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000," U.S. Department of the Interior, U.S. Geological Survey, 2002. http://toxics.usgs.gov/pubs/OFR-02-94/#abstract.

USGS, Buxton HT, and Kolpin DW. "Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams," USGS, FS-027-02, 2002.

USGS, Hinkle SR, Weick RJ, Johnson JM, Cahill JD, Smith SG, et al. "Orangic wastewater compounds, pharmaceuticals, and coliphage in ground water receiving discharge from onsite wastewater treatment systems near La Pine, Oregon: Occurrence and implications for transport," USGS, 2005-5055, 2005.

USGS, Lee KE, Barber LB, Cahill JD, Furlong ET, Kolpin DW, et al. "Presence and distribution of organic wastewater compounds in wastewater, surface, ground, and drinking waters, Minnesota, 2000-02," USGS, 2004-5138, Minnesota, 2004. http://www.water.usgs.gov/pubs/sir/2004/5138.

USGS, Scribner EA, Battaglin WA, Dietze JE, and Thurman EM. "Reconnaissance data for glyphosate, other selected herbicides, their degradation products, and antibiotics in 51 streams in nine Midwestern States," U.S. Geological Survey, 2002.

USGS, Thurman EM, and Ferrer I. "Comparison of quadrupole time-of-flight, triple quadrupole, and ion-trap mass spectrometry/mass spectrometry for the analysis of emerging contaminants," USGS, 2003.

USGS, Wilkison DH, Armstrong DJ, and Blevins DW. "Effects of wastewater and combined sewer overflows on water quality in the Blue River basin, Kansas City, Missouri and Kansas, July 1998 - October 2000," Rolla, MO, 2002. http://missouri.usgs.gov/Reports/WRIR02-4107/index.htm.

USGS, and Zimmerman MJ. "Occurrence of Organic Wastewater Contaminants, Pharmaceuticals, and Personal Care Products in Selected Water Supplies, Cape Cod, Massachusetts, June 2004," 2005-1206, Cape Cod, MA, 2005.

Vaccari P, Tonat K, DeChristoforo R, Gallelli J, and Zimmerman P. "Disposal of antineoplastic wastes at the National Institutes of Health," *Am J Health Syst Pharm* **1984**, *41*(1):87-93. http://www.ajhp.org/cgi/content/abstract/41/1/87.

Vaclavik E, Halling-Sorensen B, and Ingerslev F. "Evaluation of manometric respiration tests to assess the effects of veterinary antibiotics in soil," *Chemosphere* **2004**, *56*(7):667-676. http://www.sciencedirect.com/science/article/B6V74-4C4WWHN-1/2/4331bdbd2a77be1056dd84f292f3f489.

Vail J. "Disposing of Expired Drugs and Chemicals: New Options for Compounders," *Internat J Pharm Compounding* **2008**, *12*(1):38-47. http://ijpc.com/backissues/ArticleDescription.cfm?ABS=2704.

Vajda AM, Barber LB, Gray JL, Lopez EM, Woodling JD, and Norris DO. "Reproductive Disruption in Fish Downstream from an Estrogenic Wastewater Effluent," *Environ Sci Technol* **2008**, *42*(9):3407-3414. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0720661.

Valdersnes S, Kallenborn R, and Sydnes LK. "Identification of several Tonalide (R) transformation products in the environment," *Internat J Environ Anal Chem* **2006**, *86*(7):461-471.

Valverde RS, Garcia MDG, Galera MM, and Goicoechea HC. "Determination of tetracyclines in surface water by partial least squares using multivariate calibration transfer to correct the effect of solid phase preconcentration in photochemically induced fluorescence signals," *Anal Chimica Acta* **2006**, *562*(1):85-93. http://www.sciencedirect.com/science/article/B6TF4-4J9X33R-3/2/24e5b29898e5293f108ca4bb48677c6e.

Valverde RS, Garcia MDG, Galera MM, and Goicoechea HC. "Highly collinear three-way photoinduced spectrofluorimetric data arrays modelled with bilinear least-squares: Determination of tetracyclines in surface water samples," *Talanta* **2006**, *70*(4):774-783. http://www.sciencedirect.com/science/article/B6THP-4JD0GX9-2/2/05bee756d9f38beff1db8476d3aa768d.

van Aerle R, Pounds N, Hutchinson TH, Maddix S, and Tyler CR. "Window of Sensitivity for the Estrogenic Effects of Ethinylestradiol in Early Life-Stages of Fathead Minnow, Pimephales promelas," *Ecotoxicology* **2002**, *11*(6):423-434. http://dx.doi.org/10.1023/A:1021053217513.

Van Bambeke F, Balzi E, and Tulkens PM. "Antibiotic efflux pumps," *Biochem Pharmacol* **2000**, *60*(4):457-470. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6T4P-40K9NS2-1&_user=14684&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=14684&md5=20f471e536b7919d63ab1143c22fcb2a.

Van De Steene JC, and Lambert WE. "Validation of a solid-phase extraction and liquid chromatography-electrospray tandem mass spectrometric method for the determination of nine basic pharmaceuticals in wastewater and surface water samples," *J Chromatogr A* **2008**, *1182*(2):153-160. http://www.sciencedirect.com/science/article/B6TG8-4RJRVNX-1/1/755c1cc3c79116b754e671af202d3303.

Van De Steene JC, Mortier KA, and Lambert WE. "Tackling matrix effects during development of a liquid chromatographic-electrospray ionisation tandem mass spectrometric analysis of nine basic pharmaceuticals in aqueous environmental samples," *J Chromatogr A* **2006**, *1123*(1):71-81.

Van den Belt K, Berckmans P, Vangenechten C, Verheyen R, and Witters H. "Comparative study on the in vitro in vivo estrogenic potencies of 17 beta-estradiol, estrone, 17 alpha-ethynylestradiol and nonylphenol," *Aqua Toxicol* **2004**, *66*(2):183-195.

Van den Belt K, Verheyen R, and Witters H. "Reproductive effects of ethynylestradiol and 4toctylphenol on the zebrafish (Danio rerio)," *Arch Environ Contam Toxicol* **2001**, *41*(4):458-467.

Van den Belt K, Verheyen R, and Witters H. "Comparison of vitellogenin responses in zebrafish and rainbow trout following exposure to environmental estrogens," *Ecotoxicol Environ Safety* **2003**, *56*(2):271-281. http://www.sciencedirect.com/science/article/B6WDM-48762GB-1/2/c1b942504c119a1aaeb7c9252b65f82b.

Van den Belt K, Verheyen R, and Witters H. "Effects of 17 α -ethynylestradiol in a partial life-cycle test with zebrafish (Danio rerio): effects on growth, gonads and female reproductive success," *Sci Total Environ* **2003**, *309*(1-3):127-137. http://www.sciencedirect.com/science/article/B6V78-48765NC-4/2/5c86d78729ab139562842589ed0dc3d5.

Van den Belt K, Wester PW, van der Ven LTM, Verheyen R, and Witters H. "Effects of ethynylestradiol on the reproductive physiology in zebrafish (danio rerio): time dependency and reversibility," *Environ Toxicol Chem* **2002**, *21*(4):767-775. http://dx.doi.org/10.1897%2F1551-5028%282002%29021%3C0767%3AEOEOTR%3E2.0.CO%3B2.

Van Den Brink PJ, Tarazona JV, Solomon KR, Knacker T, Van Den Brink NW, Brock TCM, et al. "The use of terrestrial and aquatic microcosms and mesocosms for the ecological risk assessment of veterinary medicinal products," *Environ Toxicol Chem* **2005**, *24*(4):820-829.

van der Bogaard AE, and Stobberingh EE. "Time to Ban All Antibiotics as Animal Growth Promoting 25 Agents?," *Lancet* **1996**, *348*:619.

van der Burg B, Schreurs R, van der Linden S, Seinen W, Brouwer A, and Sonneveld E. "Endocrine effects of polycyclic musks: do we smell a rat?," *Int J Androl* **2008**, *31*(2):188-193. http://dx.doi.org/10.1111/j.1365-2605.2007.00831.x.

van der Oost R, Beyer J, and Vermeulen NPE. "Fish bioaccumulation and biomarkers in environmental risk assessment: a review," *Environ Toxicol Pharmacol* **2003**, *13*(2):57-149. http://www.sciencedirect.com/science/article/B6T6D-47BXBTF-2/2/3dcf49e1c379b51250fdfa8f1cd727a1.

Van Der Schalie WH, and Gentile JH. "Ecological risk assessment: implications of hormesis," *J Appl Toxicol* **2000**, *20*(2):131-139. http://dx.doi.org/10.1002/(SICI)1099-1263(200003/04)20:2<131::AID-JAT644>3.0.CO;2-4.

van der Ven K, De Wit M, Keil D, Moens L, Van Leemput K, Naudts B, et al. "Development and application of a brain-specific cDNA microarray for effect evaluation of neuro-active pharmaceuticals in zebrafish (Danio rerio)," *Comp Biochem Physiol Part B - Biochem Molecular Biol* **2005**, *141*(4):408-417. http://www.sciencedirect.com/science/article/B6T2R-4GG2JR5-1/2/44739e103c462ed8a1c6fcf5160777c2.

van der Ven K, Keil D, Moens LN, Hummelen PV, van Remortel P, Maras M, et al. "Effects of the antidepressant mianserin in zebrafish: Molecular markers of endocrine disruption," *Chemosphere* **2006**, *65*(10):1836-1845. http://www.sciencedirect.com/science/article/B6V74-4K4219S-2/2/79f39a3bb67a0d64254c4cd239f504f8.

van der Ven K, Keil D, Moens LN, Van Leemput K, Van Remortelt P, and De Coen WM. "Neuropharmaceuticals in the environment: Mianserin-induced neuroendocrine disruption in zebrafish (Danio rerio) using cDNA microarrays," *Environ Toxicol Chem* **2006**, *25*(10):2645-2652. <Go to ISI>://CCC:000240602800013.

van der Ven K, Van Dongen W, Maes BUW, Esmans EL, Blust R, and De Coen WM. "Determination of diazepam in aquatic samples by capillary liquid chromatography-electrospray tandem mass spectrometry," *Chemosphere* **2004**, *57*(8):967-973. http://www.sciencedirect.com/science/article/B6V74-4DGW2NG-4/2/8fa3897977dc31a154a87f37e538cbe9.

Van der Ven LTM, Van den Brandhof EJ, Vos JH, and Wester PW. "Effects of the estrogen agonist 17ß-estradiol and antagonist tamoxifen in a partial life-cycle assay with sebrafish (danio rerio)," *Environ Toxicol Chem* **2007**, *26*(1):92-99.

van der Ven LTM, Wester PW, and Vos JG. "Histophatholoy as a tool for the evaluation of endocrine disruption in zebrafish (danio rerio)," *Environ Toxicol Chem* **2003**, *22*(4):908-913. http://dx.doi.org/10.1897%2F1551-5028%282003%29022%3C0908%3AHAATFT%3E2.0.CO%3B2.

van Gool S. "Possible environmental effects of antibiotic residues in animal manure," *TijdschrDiergeneeskd [In Dutch]* **1993**, *118*:8-10. http://www.ncbi.nlm.nih.gov/pubmed/8418508.

van Hoop N, de Wasch K, Okerman L, Reybroeck W, Poelmans S, Noppe H, et al. "Validation of a liquid chromatography-tandem mass spectrometric method for the quantification of eight quinolones in bovine muscle, milk and aquacultured products," *Anal Chimica Acta* **2005**, *529*(1-2):265-272.

Van Houten B, Phelps J, Barnes M, and Suk WA. "Editorial: Evaluation scientific impact," *Environ Health Perspect* **2000**, *108*(9) http://www.ehponline.org/docs/2000/108-9/editorial.html.

Van Houton B, Phelps J, Barnes M, and Suk WA. "Editorial: Evaluating Scientific Impact," *Environ Health Perspect* **2000**, *108*(9) http://www.ehponline.org/docs/2000/108-9/editorial.html.

van Ommeren L, and Alm EW. "Development and application of rapid antibiotic resistance analysis for microbial source tracking in the Black River watershed, Michigan," *J Lake and Reservoir Management* **2006**, *22*(3):240-244.

http://www.nalms.org/Publications/Journal/ListArticles.aspx?publication_id=52.

van Staden JF, and Naidoo EB. "Determination of total iron as Fe(II) in multivitamins, haematinics and natural waters using a sequential injection (SIA) system," *South African J Chem - Suid-Afrikaanse Tydskrif Vir Chemie* **2000**, *53*(U2-U16).

van Straalen N, and Roelofs D. "Genomics technology for assessing soil pollution," *J Biol* **2008**, 7(6):19. http://jbiol.com/content/7/6/19.

Van Straalen NM. "Ecotoxicology becomes stress ecology," *Environ Sci Technol* **2003**, *37*(17):324A-330A.

http://www.ncbi.nlm.nih.gov/pubmed/12967088?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed_Pubmed_ResultsPanel.Pubmed_RVDocSum.

van Tellingen O. "The importance of drug-transporting P-glycoproteins in toxicology," *Toxicol Lett* **2001**, *120*(1-3):31-41. http://www.sciencedirect.com/science/article/B6TCR-42VM8DN-5/2/8c1545b67fc6d5c1457ef14d74765f0b.

van Wezel AP, and Jager T. "Comparison of two screening level risk assessment approaches for six disinfectants and pharmaceuticals," *Chemosphere* **2002**, *47*(10):1113-1128. http://www.sciencedirect.com/science/article/B6V74-455VKKN-5/1/9af5d8ee8bda64c6bd8954eedfb7412f.

Vandenbergh GF, Adrians D, Verslycke T, and Janssen CR. "Effects of 17α-ethinylestradiol on sexual development of the amphipod Hyalella azteca," *Ecotoxicol Environ Safety* **2003**, *54*(2):216-222. http://cat.inist.fr/?aModele=afficheN&cpsidt=14544056.

Vanderford BJ, Pearson R, Rexing D, and Snyder S. "LC/MS/MS analysis of pharmaceuticals, personal care products and steroids using a benchtop double-focusing sector mass spectrometer and a triple quadrupole mass spectrometer," *Abstracts of Papers of the Amer Chem Soc* **2002**, *223*(1 April 7):U512-U512.

Vanderford BJ, Pearson RA, Cody RB, Rexing DJ, and Snyder SA, Eds., "Determination of an unknown system contaminant using LC/MS/MS," American Chemical Society, Washinton, DC, 2003, 96-108 pp.

Vanderford BJ, Pearson RA, Rexing DJ, and Snyder SA. "Analysis of endocrine disruptors, pharmaceuticals, and personal care products in water using liquid chromatography/tandem mass spectrometry," *Anal Chem* **2003**, *75*(22):6265-6274.

Vanderford BJ, and Snyder SA. "Analysis of pharmaceuticals in water by isotope dilution liquid chromatography/tandem mass spectrometry," *Environ Sci Technol* **2006**, *40*(23):7312-7320. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i23/abs/es0613198.html.

Vanerkar AP, Satyanarayan S, and Dharmadhikari DM. "Toxicity of herbal pharmaceutical wastewater on fish--Lebistes reticulatus (Peter)," *J Environ Sci Health Part B Pesticides, food contaminants, and agricultural wastes* **2004**, *39*(1):115-123.

Vanerkar AP, Satyanarayan S, and Dharmadhikari DM. "Enhancement of organic removals in high strength herbal pharmaceutical wastewater," *Environ Technol* **2005**, *26*:389-395.

Vanerkar AP, Shanta S, and Dharmadhikari DM. "Toxicity of herbal pharmaceutical wastewater on fish - Lebistes reticulatus (Peter)," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2004**, *39*(1):115-123.

Vang S-H, Kortner TM, and Arukwe A. "Steroidogenic Acute Regulatory (StAR) Protein and Cholesterol Side-Chain Cleavage (P450scc) as Molecular and Cellular Targets for 17α-Ethynylestradiol in Salmon Previtellogenic Oocytes," *Chem Res Toxicol* **2007**, *20*(12):1811-1819. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/tx700228g.

Varela NP, Friendship R, and Dewey C. "Prevalence of resistance to 11 antimicrobials among Campylobacter coli isolated from pigs on 80 grower-finisher farms in Ontario," *Can J Vet Res* **2007**, *71*(3):189-194.

Vasseur P, and Pachura S. "A Hydra model to evaluate devepmental impact," *Environment, Risques & Sante* **2006**, *5*(4):280-283. http://www.jle.com/en/revues/sante_pub/ers/sommaire.md?cle_parution=1305&type=text.html.

Vasskog T, Anderssen T, Pedersen-Bjergaard S, Kallenborn R, and Jensen E. "Occurrence of selective serotonin reuptake inhibitors in sewage and receiving waters at Spitsbergen and in Norway," *J Chromatogr A* **2008**, *1185*(2):194-205. http://www.ncbi.nlm.nih.gov/pubmed/18280486.

Vasskog T, Berger U, Samuelsen P-J, Kallenborn R, and Jensen E. "Selective serotonin reuptake inhibitors in sewage influents and effluents from Tromso, Norway," *J Chromatogr A* **2006**, *1115*(1-2):187-195. http://www.sciencedirect.com/science/article/B6TG8-4JKRTRP-6/2/74dddddef67159ef5a7ae985e185a7c5.

Veber DF, Johnson SR, Cheng HY, Smith BR, Ward KW, and Kopple KD. "Molecular Properties That Influence the Oral Bioavailability of Drug Candidates," *J Med Chem* **2002**, *45*(12):2615-2623. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jm020017n.

Vedantham G, Carothers SL, Belfort G, and Przybycien TM. "Structural response of bovine growth hormone to dead-ended ultrafiltration," *Sep Sci Technol* **2003**, *38*:251-270.

Vega D, Agui L, Gonzalez-Cortes A, Yanez-Sedeno P, and Pingarron JM. "Electrochemical detection of phenolic estrogenic compounds at carbon nanotube-modified electrodes," *Talanta* **2007**, *71*(3):1031-1038. http://www.sciencedirect.com/science/article/B6THP-4K7NHFX-2/2/90fde5c792f06087d77b7c3b7a8ceb7a.

Vega-Lopez A, Ramon-Gallegos E, Galar-Martinez M, Jimenez-Orozco FA, Garcia-Latorre E, and Dominguez-Lopez ML. "Estrogenic, anti-estrogenic and cytotoxic effects elicited by water from the type localities of the endangered goodeid fish Girardinichthys viviparus," *Comp Biochem Physiol Part*

C - Pharmacol Toxicol Endocrinol **2007**, *145*(3):394-403. http://www.sciencedirect.com/science/article/B6W89-4MY0MK8-2/2/762123e3bc44270673dc7f481be36f29.

Velagaleti R. "Behavior of pharmaceutical drugs (human and animal health) in the environment," *Drug Information J* **1997**, *31*:715-722.

Velagaleti R, and Burns P. "A review of the industrial ecology of particulate pharmaceuticals and waste minimization approaches," *Particulate Sci Technol* **2007**, *25*(2):117-127.

Velagaleti R, Burns PK, Gill M, and Prothro J. "Impact of current good manufacturing practices and emission regulations and guidances on the discharge of pharmaceutical chemicals into the environment from manufacturing, use, and disposal," *Environ Health Perspect* **2002**, *110*(3):213-220. <Go to ISI>://CCC:000174311300018.

Velagaleti R, and Gill M. "Regulatory oversight for the environmental assessment of human and animal health drugs: environmental assessment regulations for drugs," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 18, 320-332.

Velagaleti R, and Gill M. "Degradation and depletion of pharmaceuticals in the environment," in *Pharmaceuticals and personal care products in the environment: scientific and regulatory*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, ACS Symposium Series 791, 2001, Chapter 19, 333-345.

Veldhoen N, Skirrow RC, Osachoff H, Wigmore H, Clapson DJ, Gunderson MP, et al. "The bactericidal agent triclosan modulates thyroid hormone-associated gene expression and disrupts postembryonic anuran development," *Aqua Toxicol* **2006**, *80*(3):217-227. http://www.sciencedirect.com/science/article/B6T4G-4M0S2Y9-1/2/1607f34b5f4663b9c487f0481cab2162.

Veldhoen N, Skirrow RC, Osachoff H, Wigmore H, Clapson DJ, Gunderson MP, et al. "Corrigendum to "The bactericidal agent triclosan modulates thyroid hormone-associated gene expression and disrupts postembryonic anuran development" [Aquat. Toxicol. 80 (2006) 217-227]," *Aqua Toxicol* **2007**, *83*(1):84. http://www.sciencedirect.com/science/article/B6T4G-4N9DJRJ-1/2/965cf31458f09f9b85d56e725bf4b5f1.

Veldhoen N, Skirrow RC, Osachoff H, Wigmore H, Clapson DJ, Gunderson MP, et al. "The bactericidal agent triclosan modulates thyroid hormone-associated gene expression and disrupts postembryonic anuran development (vol 80, pg 217, 2006)," *Aqua Toxicol* **2007**, *83*(1):84-84.

Verenitch SS, Lowe CJ, and Mazumder A. "Determination of acidic drugs and caffeine in municipal wastewaters and receiving waters by gas chromatography-ion trap tandem mass spectrometry," *J Chromatogr A* **2006**, *1116*(1-2):193-203. http://www.sciencedirect.com/science/article/B6TG8-4JHMHX0-C/2/0ed01d5834b3b64aee8e96f6fae1eefb.

Verliefde ARD, Heijman SGJ, Cornelissen ER, Amy G, Van der Bruggen B, and van Dijk JC. "Influence of electrostatic interactions on the rejection with NF and assessment of the removal efficiency during NF/GAC treatment of pharmaceutically active compounds in surface water," *Wat Res* **2007**, *41*(15):3227-3240. http://www.sciencedirect.com/science/article/B6V73-4NSMMN0-1/2/b6febcf2f52649998644e051370b9051.

Verma B, Headley JV, and Robarts RD. "Behaviour and fate of tetracycline in river and wetland waters on the Canadian Northern Great Plains," *J Environ Sci Health Part A Tox/Hazardous Substances Environ Eng Eng* **2007**, *42*(2):109-117.

Verma B, Robarts R, and Headley JV. "Impacts of Tetracycline on Planktonic Bacterial Production in Prairie Aquatic Systems," *Microbial Ecol* **2007**, *54*(1):52-55.

Verma LK, and Mani S. "Biomedical waste management in nursing homes and smaller hospitals in Delhi," *Waste Management* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6VFR-4S3G9M8-1/1/cdd0f2fac99f829036a6b3e82123e2e1.

Vermeire E, Hearnshaw H, Van Royen P, and Denekens J. "Patient adherence to treatment: three decades of research. A comprehensive review," *J Clin Pharm Ther* **2001**, *26*(5):331-342. http://www.blackwell-synergy.com/doi/abs/10.1046/j.1365-2710.2001.00363.x;jsessionid=aEdtn2pHCLK_S1K0jV?journalCode=jcp.

Vermeirssen E, Eggen R, Escher B, and Suter M. "Estrogens in Swiss rivers and effluents - Sampling matters," *CHIMIA* **2008**, *62*(5):389-394. http://www.ingentaconnect.com/content/scs/chimia/2008/0000062/0000005/art00014.

Vermeirssen EL, Asmin J, Escher BI, Kwon JH, Steimen I, and Hollender J. "The role of hydrodynamics, matrix and sampling duration in passive sampling of polar compounds with Empore SDB-RPS disks," *J Environ Monit* **2008**, *10*(1):119-128. http://www.ncbi.nlm.nih.gov/pubmed/18175025.

Vermeirssen ELM, Körner O, Schönenberger R, Suter MJ-F, and Burkhardt-Holm P. "Characterization of environmental estrogens in river water using a three pronged approach: active and passive water sampling and the analysis of accumulated estrogens in the bile of caged fish," *Environ Sci Technol* **2005**, *39*(21):8191-8198. http://pubs.acs.org/cgibin/article.cgi/esthag/2005/39/i21/html/es050818q.html.

Vermeirssen ELM, Suter MJF, and Burkhardt-Holm P. "Estrogenicity patterns in the Swiss midland river Lutzelmurg in relation to treated domestic sewage effluent discharges and hydrology," *Environ Toxicol Chem* **2006**, *25*(9):2413-2422.

Veronin MA, and Youan B-BC. "Magic Bullet Gone Astray: Medications and the Internet," *Science* **2004**, *305*(5683):481. http://www.sciencemag.org.

Verplanck PL, Taylor HE, Nordstrom DK, and Barber LB. "Aqueous stability of gadolinium in surface waters receiving sewage treatment plant effluent, Boulder Creek, Colorado," *Environ Sci Technol* **2005**, *39*(18):6923-6929. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i18/abs/es048456u.html.

Verslycke T, Ghekiere A, Raimondo S, and Janssen C. "Mysid crustaceans as standard models for the screening and testing of endocrine-disrupting chemicals," *Ecotoxicology* **2007**, *16*(1):205-219. http://dx.doi.org/10.1007/s10646-006-0122-0.

Verslycke T, Peoelmans S, De Wasch K, De Brabander HF, and Janssen CR. "Testosterone and energy metabolism in the estuarine mysid Neomysis integer (Crustacea: Mysidacea) following exposure to endocrine disruptors," *Environ Toxicol Chem* **2004**, *23*(5):1289-1296. http://cat.inist.fr/?aModele=afficheN&cpsidt=15745717.

Verslycke T, Vandenbergh GF, Versonnen B, Arijs K, and Janssen CR. "Induction of vitellogenesis in 17α-ethinylestradiol-exposed rainbow trout (Oncorhynchus mykiss): a method comparison," *Comp Biochem Physiol Part C* 2002, *132*(4):483-492.

http://www.ingentaconnect.com/content/els/15320456/2002/00000132/0000004/art00111 http://dx.doi.org/10.1016/S1532-0456(02)00111-4.

Versonnen BJ, and Janssen CR. "Xenoestrogenic effects of ethinylestradiol in zebrafish (Danio rerio)," *Environ Toxicol* **2004**, *19*(3):198-206. http://www3.interscience.wiley.com/journal/108069097/abstract?CRETRY=1&SRETRY=0.

Versteeg DJ, Alder AC, Cunningham VL, Kolpin DW, Murray-Smith R, and Ternes T. "Environmental exposure modeling and monitoring of human pharmaceutical concentrations in the environment," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 3, 71-110. https://www.setac.net/setacssa/ecssashop.show_product_detail?p_mode=detail&p_product_serno=202 &p cust id=&p order serno=&p promo cd=&p price cd=&p category id=BOOKS.

Versteegh JFM, Stolker AAM, Niesing W, and Muller JJA. "Geneesmiddelen in drinkwater en drinkwaterbronnen," RIVM rapport 703719004, 2003, 45 pp. http://www.rivm.nl/bibliotheek/rapporten/703719004.html.

Versteegh JFM, Stolker AAM, Niesing W, and Muller JJA. "Geneesmiddelen in drinkwater en drinkwaterbronnen; Pharmaceuticals in drinking water and sources for drinking water," 2007, pp. http://www.narcis.info/dare/query/sewage+pharmaceuticals/RecordID/oairivmopenrepositorycom1002 99061/Language/en/repository_id/rivm_or http://rivm.openrepository.com/rivm/handle/10029/9061.

Versteegh JFM, van der Aa NGFM, and Dijkman E. "Geneesmiddelen in drinkwater en drinkwaterbronnen [Pharmaceuticals in drinking water and resources for drinking water]," 2007, pp. http://hdl.handle.net/10029/16416 http://www.narcis.info/dare/query/aquatic+pharmaceuticals/RecordID/oairivmopenrepositorycom1002 916416/Language/en/repository_id/rivm_or http://www.rivm.nl/bibliotheek/rapporten/703719016.html.

Verstraeten I, Heberer T, and Scheytt T. "Occurrence, Characteristics, Transport, and Fate of Pesticides, Pharmaceuticals, Industrial Products, and Personal Care Products at Riverbank Filtration Sites," in *Riverbank Filtration*, Springer Netherlands, 2003, 9, 175-227. http://dx.doi.org/10.1007/0-306-48154-5_10.

Verstraeten IM, Fetterman GS, Meyer MT, Bullen T, and Sebree SK. "Use of tracers and isotopes to evaluate vulnerability of water in domestic wells to septic waste," *Ground Wat Monit Remediation* **2005**, *25*(2):107-117.

Verstraeten IM, Heberer T, Vogel JR, Speth T, Zuehlke S, and Duennbier U. "Occurrence of Endocrine-Disrupting and Other Wastewater Compounds during Water Treatment with Case Studies from Lincoln, Nebraska and Berlin, Germany," *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2003**, *7*(4):253-263. http://link.aip.org/link/?QHZ/7/253/1.

Vestara. "A vital step in managing pharmaceutical waste," Mankes RF and Lee L, Eds., 2005, 15 pp. http://www.vestara.com/focus/regulatory.asp.

Vestara "Vestara Launches EcoRexNS To Reduce Pharmaceutical Waste Pollution " http://www.solidwaste.com/article.mvc/Vestara-Launches-EcoRexNS-To-Reduce-Pharmaceu-0002?VNETCOOKIE=NO

Vethaak AD, Lahr J, Schrap SM, Belfroid AC, Rijs GBJ, Gerritsen A, et al. "An integrated assessment of estrogenic contamination and biological effects in the aquatic environment of The Netherlands," *Chemosphere* **2005**, *59*(4):511-524. http://www.sciencedirect.com/science/article/B6V74-4FFGJ4F-1/2/8780813ac40aa3855e8d5083883e16f5.

Vetillard A, and Bailhache T. "Effects of 4-n-nonylphenol and tamoxifen on salmon gonadotropinreleasing hormone, estrogen receptor, and vitellogenin gene expression in juvenile rainbow trout," *Toxicol Sci* **2006**, *92*(2):537-544.

Viant MR, Rosenblum ES, and Tjeerdema RS. "NMR-Based Metabolomics: a powerful approach for characterizing the effects of environmental stressors on organism health," *Environ Sci Technol* **2003**, *37*(21):4982-4989. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2003/37/i21/html/es034281x.html.

Vichi P, and Tritton TR. "Stimulation of Growth in Human and Murine Cells by Adriamycin," *Cancer Res* **1989**, *49*(10):2679-2682. http://cancerres.aacrjournals.org/cgi/content/abstract/49/10/2679.

Vick AM, and Hayton WL. "Methyltestosterone pharmacolinetics [sic] and oral bioavailability in rainbow trout (Oncorhynchus mykiss)," *Aqua Toxicol* **2001**, *52*(3-4):177-188. http://www.sciencedirect.com/science/article/B6T4G-42FS7R6-1/2/d66385fb6cab44e3c382ee62f05633ef.

Vidal AD, Barrales PO, and Diaz AM. "Simultaneous determination of paracetamol, caffeine and propyphenazone in pharmaceuticals by means of a single flow-through UV multiparameter sensor," *Microchimica Acta* **2003**, *141*:157-163.

Vidal L, Chisvert A, Canals A, Psillakis E, Lapkin A, Acosta F, et al. "Chemically Surface-Modified Carbon Nanoparticle Carrier for Phenolic Pollutants: Extraction and Electrochemical Determination of Benzophenone-3 and Triclosan," *Anal Chim Acta* **2008**, *616*(1):28-35. http://www.sciencedirect.com/science/article/B6TF4-4S85DN9-6/1/316824e9b34dec35c80f97233ad58407. Vieno N, Tuhkanen T, and Kronberg L. "Elimination of pharmaceuticals in sewage treatment plants in Finland," *Wat Res* **2007**, *41*(5):1001-1012. http://www.sciencedirect.com/science/article/B6V73-4MXSY56-2/2/5d4b44120685bc91e9552634d53cf1d7.

Vieno NM, Harkki H, Tuhkanen, and Kronberg L. "Occurrence of pharmaceuticals in river water and their elimination a pilot-scale drinking water treatment plant," *Environ Sci Technol* **2007**, *41*(14):5077-5084. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es062720x.

Vieno NM, Tuhkanen T, and Kronberg L. "Seasonal variation in the occurrence of pharmaceuticals in effluents from a sewage treatment plant and in the recipient water "*Environ Sci Technol* **2005**, *39*(21):8220-8226. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i21/abs/es051124k.html.

Vieno NM, Tuhkanen T, and Kronberg L. "Analysis of neutral and basic pharmaceuticals in sewage treatment plants and in recipient rivers using solid phase extraction and liquid chromatography-tandem mass spectrometry detection," *J Chromatogr A* **2006**, *1134*(1-2):101-111. http://www.sciencedirect.com/science/article/B6TG8-4KY88N0-2/2/c85fd09dfb02e026818dcba9ef2b2cb9.

Vieno NM, Tuhkanen T, and Kronberg L. "Removal of pharmaceuticals in drinking water treatment: Effect of chemical coagulation," *Environ Technol* **2006**, *27*(2):183-192. http://www.ncbi.nlm.nih.gov/pubmed/16506514.

Vigano L, Mandich A, Benfenati E, Bertolotti R, Bottero S, Porazzi E, et al. "Investigating the estrogenic risk along the River Po and its intermediate section," *Arch Environ Contam Toxicol* **2006**, *51*(4):641-651.

Viglino L, Aboulfadl K, Mahvelat AD, Prévost M, and Sauvé S. "On-line solid phase extraction and liquid chromatography/tandem mass spectrometry to quantify pharmaceuticals, pesticides and some metabolites in wastewaters, drinking, and surface waters," *J Environ Monit* **2008**, *10*:482-489. http://www.rsc.org/Publishing/Journals/EM/article.asp?doi=b800861b.

Viglino L, Aboulfadl K, Prévost M, and Sauvé S. "Analysis of natural and synthetic estrogenic endocrine disruptors in environmental waters using online preconcentration coupled with LC-APPI-MS/MS," *Talanta* **2008**, *In Press*, *Accepted Manuscript* http://www.sciencedirect.com/science/article/B6THP-4SHVSSG-2/1/4ec6d2ef1d799df0f2866a1a24fe58e8.

Villeneuve D, Blake L, Brodin J, Cavallin J, Durhan E, Jensen K, et al. "Effects of a 3 betahydroxysteroid dehydrogenase inhibitor, trilostane, on the fathead minnow reproductive axis," *Toxicol Sci* **2008**, *104*(1):113-123. http://toxsci.oxfordjournals.org/cgi/content/abstract/104/1/113.

Villeneuve D, Knoebl I, Larkin P, Miracle A, Carter B, Denslow N, et al. "Altered gene expression in the brain and liver of female fathead minnows Pimephales promelas Rafinesque exposed to fadrozole," *J Fish Biol* **2008**, 72(9):2281-2340.

http://www.ingentaconnect.com/content/bsc/jfb/2008/00000072/0000009/art00011;jsessionid=163aot 0m9wprr.alexandra?format=print.

Vincent G. "The meth plague - anhydrous ammonia is targeted for meth production," *Dealer & Applicator* **2000**.

Vincent WR, Wiesner AM, and Steinke DT. ""Free" prescription drug samples are not free," *Am J Public Health* **2008**, *98*(8):1348-1349. http://www.ajph.org/cgi/content/extract/98/8/1348.

Virlouvet G. "Drug residues in waters: Role of human and veterinary activities," *Environment, Risques & Sante* **2006**, *5*(4):239-241. http://www.jle.com/en/revues/sante_pub/ers/e-docs/00/04/1C/F7/resume.md?type=text.html.

Virlouvet G. "Regulation of veterinary drugs in relation to environmental impact," *Environment, Risques & Sante* **2006**, *5*(4):315-319. http://www.jle.com/en/revues/sante pub/ers/sommaire.md?cle parution=1305&type=text.html.

Vlahos J. "Pill-Polling Pets," New York Times, 13 July 2008 http://www.nytimes.com/2008/07/13/magazine/13petst.html?_r=2&th=&adxnnl=1&oref=slogin&emc=th&adxnnlx=1216044211-WobBtTWPQ1q8E3Ps/G1Zuw&oref=slogin.

Vogel G. "How the body's 'garbage disposal' may inactivate drugs," Science 2001, 291:35-37.

Vogel JR, Barber LB, Furlong ET, Coplen TB, Verstraeten IM, and Meyer MT. "Occurrence of Selected Pharmaceutical and Non-Pharmaceutical Compounds and Stable Hydrogen and Oxygen Isotope Ratios in a Riverbank Filtration Study, Platte River, Nebraska, 2002 to 2005, Volume 2," USGS, 2005, 92 pp. http://pubs.usgs.gov/ds/2005/141/pdf/ds141vol2.pdf.

Vogel JR, Verstraeten IM, Coplen TB, Furlong ET, Meyer MT, and Barber LB. "Occurrence of Selected Pharmaceutical and Non-Pharmaceutical Compounds and Stable Hydrogen and Oxygen Isotope Ratios in a Riverbank Filtration Study, Platte River, Nebraska, 2002 to 2003, Volume 1," USGS, 2003, 72 pp. http://pubs.usgs.gov/ds/2005/117/pdf/ds117 front.pdf.

Vogna D, Marotta R, Andreozzi R, Napolitano A, and d'Ischia M. "Kinetic and chemical assessment of the UV/H2O2 treatment of antiepileptic drug carbamazepine," *Chemosphere* **2004**, *54*(4):497-505. http://www.sciencedirect.com/science/article/B6V74-49JX6WF-1/2/9239ad7bb9d530466500832069bfbea4.

Vogna D, Marotta R, Napolitano A, Andreozzi R, and d'Ischia M. "Advanced oxidation of the pharmaceutical drug diclofenac with UV/H202 and ozone," *Wat Res* **2004**, *38*(2):414-422.

Voigt K, and Bruggemann R. "Water contamination with pharmaceuticals: Data availability and evaluation approach with Hasse Diagram Technique and METEOR "*MATCH-Commun Math Comput Chem* **2005**, *54*(3):671-689.

Voigt K, Bruggemann R, and Pudenz S. "Information quality of environmental and chemical databases exemplified by high production volume chemicals and pharmaceuticals," *Online Info Review* **2006**, *30*(1):8-23.

Volkmann H, Schwartz T, Bischoff P, Kirchen S, and Obst U. "Detection of clinically relevant antibiotic-resistance genes in municipal wastewater using real-time PCR (TaqMan)," *J Microbiol Methods* **2004**, *56*(2):277-286. http://www.sciencedirect.com/science/article/B6T30-4B4VPRF-1/2/fe860cca0049146ffbbec3edc4c11a3d.

Volmer DA, and Hui JPM. "Study of erythromycin A decomposition products in aqueous solution by solid-phase microextraction/liquid chromatography/tandem mass spectrometry," *Rapid Communications Mass Spectrometry* **1998**, *12*(3):123-129. http://dx.doi.org/10.1002/(SICI)1097-0231(19980214)12:3<123::AID-RCM126>3.0.CO;2-4.

von Humanarzneimittelmengen E. "Humanarzneimittel in der Umwelt," Landesumweltamt Brandenburg, Brandenburg, Germany, 1999. 32 pp.

Vosges M, Braguer J-C, and Combarnous Y. "Long-term exposure of male rats to low-dose ethinylestradiol (EE2) in drinking water: Effects on ponderal growth and on litter size of their progeny," *Reproductive Toxicol* **2008**, *25*(2):161-168. http://www.sciencedirect.com/science/article/B6TC0-4RDS41N-1/1/f937665ccb388fdeb3a426ce911d87bc.

Voulvoulis N, and Lester JN. "Fate of organotins in sewage sludge during anaerobic digestion," *Sci Total Environ* **2006**, *371*(1-3):373-382. http://www.sciencedirect.com/science/article/B6V78-4M4KK37-1/2/dafcacf6624334e78e80595872b9e338.

Voutsa D, Hartmann P, Schaffner C, and Giger W. "Benzotriazoles, alkylphenols and bisphenol a in municipal wastewaters and in the Glatt River, Switzerland.," *Environ Sci Pollut Res* **2006**, *13*(5):333-341.

Voutsas E, Magoulas K, and Tassios D. "Prediction of the bioaccumulation of persistent organic pollutants in aquatic food webs," *Chemosphere* **2002**, *48*(7):645-651. http://www.sciencedirect.com/science/article/B6V74-45N81GV-3/2/6cb9990bb37e63a94b21ab7a4a4e6289.

Vrakas D, Giaginis C, and Tsantili-Kakoulidou A. "Different retention behavior of structurally diverse basic and neutral drugs in immobilized artificial membrane and reversed-phase high performance liquid chromatography: Comparison with octanol-water partitioning," *J Chromatogr A* **2006**, *1116*(1-2):158-164. http://www.sciencedirect.com/science/article/B6TG8-4JMM5RB-9/2/764a1a96e8f07689d820d8a0c9d1157d.

Vu D-T, Nicholas PE, and Erikson CM. "SPME/GC-MS characterization of volatiles associated with cocaine and heroin," *Am Lab* **2000**, (September):32-34.

Vulliet E, Baugros JB, Flament-Waton MM, and Grenier-Loustalot MF. "Analytical methods for the determination of selected steroid sex hormones and corticosteriods in wastewater," *Anal Bioanal Chem* **2007**, *387*(6):2143-2151.

Wainwright M. "Methylene blue derivatives -- suitable photoantimicrobials for blood product disinfection?," *Internat J Antimicrob Agents* **2000**, *16*(4):381-394. http://www.sciencedirect.com/science/article/B6T7H-41WJBHD-1/1/8326d6173940c15499c73c8ecf43de0e.

Wajsman D, and Ruden C. "Identification and evaluation of computer models for predicting environmental concentrations of pharmaceuticals and veterinary products in the Nordic environment," *J Exposure Sci Environ Epidemiol* **2006**, *16*(1):85-97. http://www.nature.com/jes/journal/v16/n1/pdf/7500440a.pdf. Walker CC, Lott HM, and Barker SA. "Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species," *J Chromatogr* **1993**, *642*(1-2 (138 ref)):225-242. http://cat.inist.fr/?aModele=afficheN&cpsidt=3946642.

Walker CH. "Biomarker strategies to evaluate the environmental effects of chemicals," *Environ Health Perspect* **1998**, *106 Suppl* 2:613-620. http://www.ncbi.nlm.nih.gov/pubmed/9599708.

Walker JD, Plewak D, Mekenyan O, Dimitrov S, and Dimitrova N. "Use of QSARs to Promote More Cost-Effective Use of Chemical Monitoring Resources. 2. Screening Chemicals for Hydrolysis Half-Lives, Henry's Law Constants, Ultimate Biodegradation Potential, Modes of Toxic Action and Bioavailability," *Wat Qual Res J Canada* **2004**, *39*(1):40-49.

Wall R, and Strong L. "Environmental consequences of treating cattle with the antiparasitic drug ivermectin," *Nature* **1987**, *327*(6121):418-421. http://www.nature.com/nature/journal/v327/n6121/pdf/327418a0.pdf.

Waller NJ, and Kookana R. "Effect of triclosan on microbial activity in Australian soils," *Environ Chem* **2008**, *In press*.

Walsh C. "Molecular mechanisms that confer antibacterial drug resistance," *Nature* **2000**, *406*:775-781.

Waltman EL, Venables BJ, and Waller WZ. "Triclosan in a North Texas wastewater treatment plant and the influent and effluent of an experimental constructed wetland," *Environ Toxicol Chem* **2006**, *25*(2):367-372.

Wammer KH, Lapara TM, McNeill K, Arnold WA, and Swackhamer DL. "Changes in antibacterial activity of triclosan and sulfa drugs due to photochemical transformations," *Environ Toxicol Chem* **2006**, *25*(6):1480-1486.

Wan G-H, Cui H, Pan Y-L, Zheng P, and Liu L-J. "Determination of quinolones residues in prawn using high-performance liquid chromatography with Ce(IV)-Ru(bpy)32+-HNO3 chemiluminescence detection," *J Chromatogr B* 2006, *843*(1):1-9. http://www.sciencedirect.com/science/article/B6X0P-4K7FJHK-1/2/fe805d5ab873bbedb59f9a148909f456.

Wan Y, Wei Q, Hu J, Jin X, Zhang Z, Zhen H, et al. "Levels, Tissue Distribution, and Age-Related Accumulation of Synthetic Musk Fragrances in Chinese Sturgeon (Acipenser sinensis): Comparison to Organochlorines," *Environ Sci Technol* **2007**, *41*(2):424-430. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es061771r.

Wang A, Hu C, Qu J, Yang M, Liu H, Ru J, et al. "Phototransformation of nitrobenzene in the Songhua River: Kinetics and photoproduct analysis," *J Environ Sci* **2008**, *20*(7):787-795. http://www.sciencedirect.com/science/article/B8CX4-4T137T0-3/1/71e906f33aeef120703593b99059c422.

Wang JK, and Farrell J. "Electrochemical inactivation of triclosan with boron doped diamond film electrodes," *Environ Sci Technol* **2004**, *38*(19):5232-5237. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i19/html/es0352770.html.

Wang L, Cai Y-Q, He B, Yuan C-G, Shen D-Z, Shao J, et al. "Determination of estrogens in water by HPLC-UV using cloud point extraction," *Talanta* **2006**, *70*(1):47-51. http://www.sciencedirect.com/science/article/B6THP-4J91PXW-6/2/33e9ad284f26c58db1732d19a8d087c2.

Wang LZ, Zhang FF, Liu RH, Zhang TY, Xue XY, Xu Q, et al. "FeCl₃/NaNO₂: An efficient photocatalyst for the degradation of aquatic steroid estrogens under natural light irradiation," *Environ Sci Technol* **2007**, *41*(10):3747-3751. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2007/41/i10/abs/es0625778.html.

Wang P, Qi M, and Jin X. "Determination of roxithromycin in rat lung tissue by liquid chromatography-mass spectrometry," *J Pharmaceutical Biomed Anal* **2005**, *39*(3-4):618-623. http://www.sciencedirect.com/science/article/B6TGX-4G63J4M-3/2/2f0835590b94836c019fb2e896a72a5e.

Wang QH, Zhang L, Tian S, Sun PT-C, and Xie W. "A pilot-study on treatment of a waste gas containing butyl acetate, n-butyl alcohol and phenylacetic acid from pharmaceutical factory by bio-trickling filter," *Biochem Engineering J* 2007, *37*(1):42-48. http://www.sciencedirect.com/science/article/B6V5N-4NB99NF-1/2/d6cf7b3a0c4d214e09a4347bdba0b19f.

Wang QQ, Bradford SA, Zheng W, and Yates SR. "Sulfadimethoxine degradation kinetics in manure as affected by initial concentration, moisture, and temperature," *J Environ Qual* **2005**, *35*(6):2162-2169.

Wang QQ, Guo MX, and Yates SR. "Degradation kinetics of manure-derived sulfadimethoxine in amended soil," *J Agric Food Chem* **2006**, *54*(1):157-163.

Wang QQ, Scherer EM, and Lemley AT. "Metribuzin degradation by membrane anodic Fenton treatment and its interaction with ferric ion," *Environ Sci Technol* **2004**, *38*(4):1221-1227. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2004/38/i04/abs/es0345827.html.

Wang R-L, Bencic D, Biales A, Lattier D, Kostich M, Villeneuve D, et al. "DNA Microarray-based Cotoxicological biomarker discovery in a small fish model species," *Environ Toxicol Chem* **2007**, *27*(3):664-675. http://www.setacjournals.org/archive/1552-8618/preprint/2007/pdf/10.1897_07-192.pdf.

Wang R-L, Biales A, Bencic D, Lattier D, Kostich M, Villeneuve D, et al. "DNA Microarray application in aquatic ecotoxicology: experimental design, microarray scanning, and factors impacting transcriptional profiles in a small fish species," *Environ Toxicol Chem* **2007**, *27*(3):652-663.

Wang R-L, Biales A, Bencic D, Lattier D, Kostich M, Villeneuve D, et al. "DNA microarray application in ecotoxicology: experimental design, microarray scanning, and factors affecting transcriptional profiles in a small fish species," *Environ Toxicol Chem* **2008**, *27*(3):652-663.

Wang S, Holzem R, and Gunsch CK. "Supporting Information for: Effects of pharmaceutically active compounds on activated sludge microorganisms," Duke University, Durham, NC, 2008, 5 pp.

Wang S, Holzem RM, and Gunsch CK. "Effects of Pharmaceutically Active Compounds on a Mixed Microbial Community Originating from a Municipal Wastewater Treatment Plant," *Environ Sci Technol* **2008**, *42*(4):1091-1095. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es072026x.

Wang S, Huang W, Fang GZ, Zhang Y, and Qiao H. "Analysis of steroidal estrogen residues in food and environmental samples," *Internat J Environ Anal Chem* **2008**, *88*(1):1-25.

Wang S, Wang Y, Huang W, Fang GZ, Duan ZJ, Qiao H, et al. "Development of a solid-phase extraction-enzyme-linked immunosorbent assay method with a new sorbent of multiwall carbon nanotube for the determination of estrone in water," *Anal Lett* **2007**, *40*(12):2338-2350.

Wang SH, Lin SL, Du LY, and Zhuang HS. "Flow injection chemiluminescence immunoassay for 17 beta-estradiol using an immunoaffinity column," *Anal Bioanal Chem* **2006**, *384*(5):1186-1190.

Wang SH, Zhuang HS, Du LY, Lin SL, and Wang CT. "Determination of estradiol by biotin-avidinamplified electrochemical enzyme immunoassay," *Anal Lett* **2007**, *40*(5):887-896.

Wang Y, Li X, Li A, Wang T, Zhang Q, Wang P, et al. "Effect of Municipal Sewage Treatment Plant Effluent on Bioaccumulation of Polychlorinated Biphenyls and Polybrominated Diphenyl Ethers in the Recipient Water," *Environ Sci Technol* **2007**, *41*(17):6026-6032. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es070913u.

Wang Y-J, Jia D-A, Sun R-J, Zhu H-W, and Zhou D-M. "Adsorption and Cosorption of Tetracycline and Copper(II) on Montmorillonite as Affected by Solution pH," *Environ Sci Technol* **2008**, *Received October 18*, 2007. *Revised manuscript received February 04*, 2008. Accepted February 06, 2008 http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=7151507 48&_sort=d&view=c&_acct=C000001678&_version=1&_urlVersion=0&_userid=6729288&md5=63 8861ff009261d48e215f24101a775a.

Wang YQ, Hu W, Cao ZH, Fu XQ, and Zhu T. "Occurrence of endocrine-disrupting compounds in reclaimed water from Tianjin, China," *Anal Bioanal Chem* **2005**, *383*(5):857-863.

Wang Z-h, Zhang S-x, Shen J-z, and Sergei AE. "Development of fluorescence polarization immunoassay for determination of pesticides and veterinary drugs," *Spectroscopy Spectral Anal* **2007**, *27*(11):2299-2306.

Waring CP, and Moore AP. "Sublethal effects of a carbamate pesticide on pheromonal mediated endocrine function in mature male Atlantic salmon (Salmo salar L.) parr," *Fish Physiol Biochem* **1997**, *17*:203-211.

Waring RH, and Harris RM. "Endocrine disrupters: A human risk?," *Molecular Cell Endocrinol* **2005**, 244(1-2):2-9. http://www.sciencedirect.com/science/article/B6T3G-4HG6NY9-1/2/ecd936e14bf973178e43cb4f2c1df044.

Warner KE, and Jenkins JJ. "Effects of 17α-ethinylestradiol and bisphenol A on vertebral development in the fathead minnow (pimephales promelas)," *Environ Toxicol Chem* **2007**, *26*(4):732-737. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F06-482R.1.

Washam C. "Baby ills from beauty aids?," Environ Health Perspect 2001, 109(5):A202.

Washington Citizens for Resource Conservation (WCRC). "Sound stats report," January, 2006, 21 pp.

Washington State Department of Ecology "Clark County solid waste pharmaceutical take back program,"

http://www.ecy.wa.gov/programs/swfa/mrw/pdf/Presentations/Jim%20Mansfield%20Pharmaceutical %20take%20back%20program.ppt.pdf.

Wasserfallen J-B, Bourgeois R, Bula C, Yersin B, and Buclin T. "Composition and Cost of Drugs Stored at Home by Elderly Patients," *Ann Pharmacother* **2003**, *37*(5):731-737. http://www.theannals.com/cgi/content/abstract/37/5/731.

Water Environment Research Foundation (WERF). "Trace Organic Compounds: Mapping a Collaborative Research Roadmap," San Francisco, CA, May 17-18, 2007, 20 pp. http://www.werf.org/AM/Template.cfm?Section=Home&TEMPLATE=/CM/ContentDisplay.cfm&C ONTENTID=4369.

Water Environment Research Foundation (WERF), and Anderson P. "Technical Brief on Trace Organic Compounds and Implications for Wastewater Treatment," WatReuse Foundation,, WERF CEC3R07, 2008, pp.

Water ST. "Monitoring pharmaceuticals and personal health care products in sewage treatment works," 2002, pp.

WateReuse Foundation (WRF). "Toxicological relevance of endocrine disruptors and pharmaceuticals in drinking water," WRF-04-003

WwwaRF # 3085, September, 2008 Completion, pp.

http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF). "Tools to Assess and Understand the Relative Risks of Indirect Potable Reuse and Aquifer Storage and Recovery Projects – Task 2," WRF-06-018, September, 2008 Completion, pp. http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF), and Drewes J. "Development of Indicators and Surrogates for Chemical Contaminant Removal during Wastewater Treatment and Reclamation," WRF-03-014, 2008, pp. http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF), and Drewes J. "Contributions of Household Chemicals to Sewage and their Relevance to Municipal Wastewater Systems and the Environment," WRF-04-18 WERF Project 03-CTS-21UR, 2008, pp. http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF), and Drewes J. "Development of Indicators and Surrogates for Chemical Contaminant Removal during Wastewater Treatment and Reclamation Phase II," WRF-05-004, 2009 Completion, pp. http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

Waterston K, Wang JWJ, Bejan D, and Bunce NJ. "Electrochemical waste water treatment: Electrooxidation of acetaminophen," *J Appl Electrochem* **2006**, *36*(2):227-232.

Watkins KJ. "Handle with care - Contract pharmaceutical manufacturers find a niche in handling high-potency active ingredients," *Chem Eng News* **2001**, (2 April):31-34.

Watkinson AJ, Micalizzi GB, Graham GM, Bates JB, and Costanzo SD. "Antibiotic-resistant Escherichia coli in wastewaters, surface waters, and oysters from an urban riverine system," *Appl Environ Microbiol* **2007**, *73*(17):5667-5670. http://www.ncbi.nlm.nih.gov/pubmed/17616617.

Watkinson AJ, Murby EJ, and Costanzo SD. "Removal of antibiotics in conventional and advanced wastewater treatment: Implications for environmental discharge and wastewater recycling," *Wat Res* **2007**, *41*(18):4164-4176. http://www.sciencedirect.com/science/article/B6V73-4NT24PY-4/2/1d6fef9ea5ce6848ef242c115ae39515.

Watson CS, Bulayeva NN, Wozniak AL, and Alyea RA. "Xenoestrogens are potent activators of nongenomic estrogenic responses," *Steroids* **2007**, *72*(2):124-134. http://www.sciencedirect.com/science/article/B6TC9-4MKTXY2-1/2/5b2608afcc8085f456aa91a6544d0e74.

Wattoo MHS, Kazi TG, Jakhrani MA, and Anwar F. "Evaluation of mineral bottled water samples for different physical and chemical parameters," *J Chem Soc Pakistan* **2002**, 24:39-42.

Watts C, Maycock D, Crane M, Fawell J, and Goslan E. "Desk Based Review of Current Knowledge on Pharmaceuticals in Drinking Water and Estimation of Potential Levels, Final Report to Drinking Water Inspectorate," Watts and Crane Associates, United Kingdom, 5 November, 2007, 107 pp. http://www.dwi.gov.uk/research/reports/DWI70-2-213.pdf.

Watts CD, Craythrone M, Fielding M, and Steel CP. "Identification of non volatile organics in water using field desorption mass spectrometry and high performance liquid chromatography," in *Analysis of organic micropollutants in water*, Angeletti G, Ed., Dordrecht: Reidel, 1983, 120-131.

Watts MM, Pascoe D, and Carroll K. "Survival and precopulatory behaviour of Gammarus pulex (L.) exposed to two xenoestrogens," *Wat Res* **2001**, *35*(10):2347-2352. http://www.sciencedirect.com/science/article/B6V73-438TTTM-2/1/a8ba05990d4de1093a5d0b8eb693df1a.

Webb M, Riley LW, and Roberts RB. "Cost of hospitalization for and risk factors associated with vancomycin-resistant Enterococcus faecium infection and colonization," *Clin Infect Dis* **2001**, *33*:445-452.

Webb S, Ternes T, Gibert M, and Olejniczak K. "Indirect human exposure to pharmaceuticals via drinking water," *Toxicology Letters* **2003**, *142*(3):157-167. http://www.ingentaconnect.com/content/els/03784274/2003/00000142/00000003/art00071 http://dx.doi.org/10.1016/S0378-4274(03)00071-7.

Webb SF. "A data-based perspective on the environmental risk assessment of human pharmaceuticals I—Collation of available ecotoxicity data," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 17, 175–201.

Webb SF. "A data-based perspective on the environmental risk assessment of human pharmaceuticals I - Collation of available ecotoxicity data," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 24, 317-344.

Webb SF. "A data based perspective on the environmental risk assessment of human pharamaceuticals II - Aquatic risk characterisation," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 25, 345-364.

Webb SF. "A data based perspective on the environmental risk assessment of human pharmaceuticals III - Indirect human exposure," in *Pharmaceuticals in the environment: Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 26, 363-372.

Webber K, and Spindler P. "Environmental assessment of human pharmaceuticals in the United States of America," *Drug Inf J* 2007, *41*(2):155-157.

Weber DJ, and Rutala WA. "Use of germicides in the home and the healthcare setting: is there a relationship between germicide use and antibiotic resistance?," *Infect Control Hosp Epidemiol* **2006**, *27*(10):1107-1119.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17006819.

Weber LP, Balch GC, Metcalf CD, and Janz DM. "Increased kidney, liver, and testicular cell death after chronic exposure to 17 alpha-ethinylestradiol in medaka (Oryzias latipes)," *Environ Toxicol Chem* **2004**, *23*(3):792-797.

Weber LP, Balch GC, Metcalfe CD, and Janz DM. "Increased kidney, liver, and testicular cell death after chronic exposure to 17α-ethinylestradiol in medaka (oryzias latipes)," *Environ Toxicol Chem* **2004**, *23*(3):792-797. http://dx.doi.org/10.1897%2F02-570.

Weber LP, Hill RL, and Janz DM. "Developmental estrogenic exposure in zebrafish (Danio rerio): II. Histological evaluation of gametogenesis and organ toxicity," *Aqua Toxicol* **2003**, *63*(4):431-446. http://www.sciencedirect.com/science/article/B6T4G-47WDB5D-3/2/5fc77ae1d199dd2b764d5ad218dff604.

Weber S, Gallenkemper M, Melin T, Dott W, and Hollender J. "Efficiency of nanofiltration for the elimination of steroids from water," *Wat Sci Technol* **2004**, *50*(5):9-14.

Weber S, Khan S, and Hollender J. "Human risk assessment of organic contaminants in reclaimed wastewater used for irrigation," *Desalination* **2006**, *187*(1-3):53-64. http://www.sciencedirect.com/science/article/B6TFX-4J444DP-9/2/2076cfe1fd07435a8979d5592605a9ff.

Weber S, Leuschner P, Kampfer P, Dott W, and Hollender J. "Degradation of estradiol and ethinyl estradiol by activated sludge and by a defined mixed culture," *Appl Microbiol Biotech* **2005**, *67*(1):106-112.

Webster J. "Culture's influence: towards understanding stakeholder interactions in rural water, sanitation and hygiene promotion projects," Doctoral Dissertation, Cranfield University, Institute of

Water and Environment, Silsoe, England, 2007. 340 pp. https://dspace.lib.cranfield.ac.uk/handle/1826/1369.

Wehrhan A, Kasteel R, Simunek J, Groeneweg J, and Vereecken H. "Transport of sulfadiazine in soil columns - Experiments and modelling approaches," *J Contam Hydrol* **2007**, *89*(1-2):107-135.

Wei D, Lin Z, Kameya T, Urano K, and Du Y. "Application of biological safety index in two Japanese watersheds using a bioassay battery," *Chemosphere* **2008**, *72*(9):1303-1308. http://www.sciencedirect.com/science/article/B6V74-4SNPPXJ-3/1/1f5de07e6ccdbe9a6f9b7d15ba0336c1.

Weichgrebe D, Danilova E, Rosenwinkel KH, Vedenjapin AA, and Baturova M. "Electrochemical oxidation of drug residues in water by the example of tetracycline, gentamicine and aspirin (R)," *Wat Sci Technol* **2004**, *49*(4):201-206.

Weigel S. "Occurrence, distribution and fate of pharmaceuticals and further polar contaminants in the marine environment," Doctoral Dissertation, University of Hamburg, Institute of Organic Chemistry, Hamburg, Germany, 2003. 145 pp. http://www.chemie.uni-hamburg.de/oc/hfuss/.

Weigel S, Berger U, Jensen E, Kallenborn R, Thoresen H, and Huhnerfuss H. "Determination of selected pharmaceuticals and caffeine in sewage and seawater from Tromso/Norway with emphasis on ibuprofen and its metabolites," *Chemosphere* **2004**, *56*(6):583-592. http://www.sciencedirect.com/science/article/B6V74-4CJCT8N-2/2/c25b97bb801bde2aacaf933cbc3771f5.

Weigel S, Kallenborn R, and Huhnerfuss H. "Simultaneous solid-phase extraction of acidic, neutral and basic pharmaceuticals from aqueous samples at ambient (neutral) pH and their determination by gas chromatography-mass spectrometry," *J Chromatogr A* **2004**, *1023*(2):183-195. http://www.sciencedirect.com/science/article/B6TG8-4B0SVNG-4/2/70b126e9cd08182a0593d1298eabd715.

Weigel S, Kuhlmann J, and Huhnerfuss H. "Drugs and personal care products as ubiquitous pollutants: occurrence and distribution of clofibric acid, caffeine and DEET in the North Sea," *Sci Total Environ* **2002**, *295*(1-3):131-141. http://www.sciencedirect.com/science/article/B6V78-456WS2N-3/2/e381e32e863fc7160d665a56b0de677d.

Weil H, and Knepper TP. "Pharmaceuticals in the River Rhine," in *The Rhine*, Springer Brlin/Heidelberg; Idstein, Germany, 2006, 177-184. http://www.springerlink.com/content/851w3u2452803708/.

Weinberg HS, Meyer MT, Singer PC, and Sobsey MD. "Impact of Residual Pharmaceutical Agents and their Metabolites in Wastewater Effluents on Downstream Drinking Water Treatment Facilities," USEPA, EPA Grant Number: R829014, University of North Carolina at Chapel Hill, U.S. Geological Survey 2001-2006.

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1066/report/0.

Weinger MB. "Drug wastage contributes significantly to the cost of routine anesthesia care," *J Clin Anesthesia* **2001**, *13*(7):491-497. http://www.sciencedirect.com/science/article/B6T83-44C0H4B-5/1/79c4a60d2b815d74ca44351102b010fa.

Weinhold B. "Preventing Pill Pollution: Keeping Drugs and Toiletries out of the Environment," *Environ Health Perspect* **2003**, *111*(5):A293.

Weintraub A, "Just say no to drug reps," Business Week 24 January, 2008.

Weintraub A, "Building up docs' marketing resistance," BuisnessWeek 18 January, 2008.

Weintraub A, "Teaching Doctors—or Selling to Them?," *Business Week* July 31, 2008, 2. http://businessweek.com/magazine/content/08_32/b4095026335160.htm?chan=top+news_top+news+i ndex_technology.

Weis P, and Ashley JTF. "Contaminants in fish of the Hackensack meadowlands, New Jersey: Size, sex, and seasonal relationships as related to health risks "*Arch Environ Contam Toxicol* **2007**, *52*:80-89.

Weisbrod CJ, Kunz PY, Zenker AK, and Fent K. "Effects of the UV filter benzophenone-2 on reproduction in fish," *Toxicol Appl Pharmacol* **2007**, *225*(3):255-266. http://www.sciencedirect.com/science/article/B6WXH-4PFDDJS-1/2/bc88e4d067db215e5fc16e05b6701651.

Weiss B. "Vulnerability of children and the developing brain to neurotoxic hazards," *Environ Health Perspect* **2000**, *108 Suppl 3*:375-381. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1637834.

Weiss B, and Landrigan PJ. "The developing brain and the environment: an introduction," *Environ Health Perspect* **2000**, *108 Suppl 3*:373-374. http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1637828.

Weiss J, Dormann S-MG, Martin-Facklam M, Kerpen CJ, Ketabi-Kiyanvash N, and Haefeli WE. "Inhibition of P-glycoprotein by newer antidepressants," *J Pharmacol Experimental Therapeut* **2003**, *305*(1):197-204.

Weiss K, Schüssler W, and Porzelt M. "Sulfamethazine and flubendazole in seepage water after the sprinkling of manured areas," *Chemosphere* **2008**, 72(9):1292-1297. http://www.sciencedirect.com/science/article/B6V74-4SV0SP5-1/1/eb3ba657c1a7a5fae8e313c7bfecda37.

Weiss S, Jakobs J, and Reemtsma T. "Discharge of three benzotriazole corrosion inhibitors with municipal wastewater and improvements by membrane bioreactor treatment and ozonation," *Environ Sci Technol* **2006**, *40*(23):7193-7199. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2006/40/i23/abs/es061434i.html.

Weiss S, and Reemtsma T. "Determination of benzotriazole corrosion inhibitors from aqueous environmental samples by liquid chromatography-electrospray ionization-tandem mass spectrometry," *Anal Chem* **2005**, *77*(22):7415-7420.

Weiss S, and Reemtsma T. "Membrane bioreactors for municipal wastewater treatment - a viable option to reduce the amount of polar pollutants discharged into surface waters?," *Water Research*

2008, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4STYTSC-7/1/4416820d441925cbfcddcf7eba700f96.

Welch CJ, Biba M, Drahus A, Conlon DA, Tung HH, and Collins P. "Selective removal of a pharmaceutical process impurity using a reactive resin," *J Liquid Chromatogr Related Technol* **2003**, *26*:1959-1968.

Welch SL. "Methamphetamine and amphetamine testing," *Forensic Urine Drug Test* **1997**, (March):2-7.

Wells MJM. "Log D-OW: Key to understanding and regulating wastewater-derived contaminants," *Environ Chem* **2006**, *3*(6):439-449.

Wen XJ, Tu CH, and Lee HK. "Two-step liquid-liquid-liquid microextraction of nonsteroidal antiinflammatory drugs in wastewater," *Anal Chem* **2004**, *76*(1):228-232.

Wen Y, Zhou B-S, Xu Y, Jin S-W, and Feng Y-Q. "Analysis of estrogens in environmental waters using polymer monolith in-polyether ether ketone tube solid-phase microextraction combined with high-performance liquid chromatography," *J Chromatogr A* **2006**, *1133*(1-2):21-28. http://www.sciencedirect.com/science/article/B6TG8-4KSSWCR-4/2/630aa99667d78d96fa0e88b5e887a756.

Wennmalm A, and Gunnarsson B. "Public health care management of water pollution with pharmaceuticals: Environmental classification and analysis of pharmaceutical residues in sewage water," *Drug Information J* 2005, *39*(3):291-297. http://www.diahome.org/NR/rdonlyres/A8AA8F12-4F59-4177-B0F3-5FE3BFEDC625/0/DIJ39_3_291.pdf.

Wenzel A, Nendza M, Hartmann P, and Kanne R. "Test battery for the assessment of aquatic toxicity," *Chemosphere* **1997**, *35*(1-2):307-322.

Wenzel AC, Schafers C, Vollmer G, Michna H, and Diel P. "Research efforts towards the development and validation of a test method for the identification of endocrine disrupting chemicals," Fraunhofer-Institut fur Umweltchemie und Okotoxikologie Auf dem Aberg 1, Schmallenberg, Germany, September, 2001, 82 pp.

Werner I, and Hinton DE. "Spatial profiles of hsp 70 proteins in Asian clam (Potamocorbula amurensis) in northern San Francisco Bay may be linked to natural rather than anthropogenic stressors," *Mar Environ Res* **2000**, *50*:379-384.

Werner J, Palace VP, Wautier KG, Mills KH, Chalanchuk SM, and Kidd KA. "Reproductive fitness of lake trout (Salvelinus namaycush) exposed to environmentally relevant concentrations of the potent estrogen ethynylestradiol (EE2) in a whole lake exposure experiment," *Scientia Marina* **2006**, *70*(2):59-66.

Werner J, Wautier K, Evans RE, Baron CL, Kidd K, and Palace V. "Waterborne ethynylestradiol induces vitellogenin and alters metallothionein expression in lake trout (Salvelinus namaycush)," *Aqua Toxicol* **2003**, *62*(4):321-328. http://www.sciencedirect.com/science/article/B6T4G-46WPMWX-2/2/4d27a6cacd60ec250525cde7bebc4079.

Werner JJ, Arnold WA, and McNeill K. "Water Hardness as a Photochemical Parameter: Tetracycline Photolysis as a Function of Calcium Concentration, Magnesium Concentration, and pH," *Environ Sci Technol* **2006**, *40*(23):7236-7241. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060337m.

Werner JJ, Chintapalli M, Lundeen RA, Wammer KH, Arnold WA, and McNeill K. "Environmental Photochemistry of Tylosin: Efficient, Reversible Photoisomerization to a Less-Active Isomer, Followed by Photolysis," *J Agric Food Chem* **2007**, *55*(17):7062-7068. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/jf070101h.

Werner JJ, McNeill K, and Arnold WA. "Environmental photodegradation of mefenamic acid," *Chemosphere* **2005**, *58*(10):1339-1346. http://www.sciencedirect.com/science/article/B6V74-4DTTB2P-4/2/52e4e6340fb805421f745e548761d065.

Wessel N, Rousseau S, Caisey X, Quiniou F, and Akcha F. "Investigating the relationship between embryotoxic and genotoxic effects of benzo[a]pyrene, 17[alpha]-ethinylestradiol and endosulfan on Crassostrea gigas embryos," *Aqua Toxicol* **2007**, *85*(2):133-142. http://www.sciencedirect.com/science/article/B6T4G-4PGY4KH-1/2/c86bbf388a6d59f8dfdbc09f72e11647.

Wester RC, Hui X, and Maibach HI. "In Vivo Human Transfer of Topical Bioactive Drug between Individuals: Estradiol," *J Invest Dermatol* **2006**, *126*(10):2190-2193. http://dx.doi.org/10.1038/sj.jid.5700383.

Westerhoff P, Yoon Y, Snyder S, and Wert E. "Fate of Endocrine-Disruptor, Pharmaceutical, and Personal Care Product Chemicals during Simulated Drinking Water Treatment Processes," *Environ Sci Technol* **2005**, *39*(17):6649-6663. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0484799.

Westfall JM, McCabe J, and Nicholas RA. "Personal use of drug samples by physicians and office staff," *JAMA* **1997**, *278*(2):141-143.

http://www.ncbi.nlm.nih.gov/pubmed/9214530?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed. Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus.

Westphal Kea. "Induction of P-glycoprotein by rifampin increases intestinal secretion of talinolol in human beings: A new type of drug/drug interaction," *Clin Pharmacol Therapeut* **2000**, *68*(4):345-355.

Wetzstein HG, Schneider J, and Karl W. "Patterns of metabolites produced from the fluoroquinolone enrofloxacin by basidiomycetes indigenous to agricultural sites," *Appl Microbiol Biotech* **2000**, *71*(1):90-100.

Weyer P, and Riley D. "Endocrine disruptors and pharamaceuticals in drinking water." Denver, CO, AWWA Research Foundation and the American Water Works Association, 2001, 116 pp. http://books.google.com/books?id=llpjSAzsbiMC&printsec=titlepage&dq=pharmaceuticals+drinking &source=gbs_toc_s&cad=1#PPA94,M1 http://search.barnesandnoble.com/booksearch/isbninquiry.asp?r=1&ean=1583211225.

Whelan MJ, Van Egmond R, Guymer I, Lacoursiere JO, Vought LMB, Finnegan C, et al. "The behaviour of linear alkyl benzene sulphonate under direct discharge conditions in Vientiane, Lao

PDR," *Wat Res* **2007**, *41*(20):4730-4740. http://www.sciencedirect.com/science/article/B6V73-4P2S8XW-2/2/dcfda92407513c5e127bdb7f6309d359.

White JR, Belmont MA, and Metcalfe CD. "Pharmaceutical compounds in wastewater: Wetland treatment as a potential solution," *Sci World J* **2006**, *6*:1731-1736.

White KL, Haggard BE, Matlock MD, and Kim JW. "Periphytic chlorophyll-a response to Triclosan exposure: Application of a passive diffusion," *Appl Engin Agric* **2005**, *21*(2):307-311.

White LK, Wright WE, and Shay JW. "Telomerase inhibitors," *Trends Biotechnol* **2001**, *19*(3):114-120. http://www.sciencedirect.com/science/article/B6TCW-42BSR1X-12/1/6aad68cd3433c7ff3ac75bc769624e92.

White PA, and Rasmussen JB. "The genotoxic hazards of domestic wastes in surface waters," *Mutation Research/Reviews in Mutation Research* **1998**, *410*(3):223-236. http://www.sciencedirect.com/science/article/B6T2G-3VGS02R-1/2/0c642d609677386678f659e0c654e138.

WHO. "Safe Management of Wastes from Health-Care Activities," World Health Organization, 1999, xiv + 230 pp. http://www.bvsde.paho.org/bvsacd/who/safe.pdf.

WHO. "Guidelines for safe disposal of unwanted pharmaceuticals in and after emergencies," 1999, 31 pp. http://www.who.int/water_sanitation_health/medicalwaste/pharmaceuticals/en/index.html.

WHO. "Infectious Diseases 2000: Overcoming Antimicrobial Resistance," 2000, 67 pp. http://www.who.int/infectious-disease-report-2000/.

WHO. "Good distribution practices (GDP) for pharamaceutical products," 2005, 28 pp. http://www.who.int/medicines/services/expertcommittees/pharmprep/QAS_068Rev2_GDPdraft.pdf.

WHO "Defined Daily Doses," World Health Organization, WHO Collaborating Centre for Drug Statistics Methodology http://www.whocc.no/atcddd/.

WHO ""World directory of poisons centres (Yellow Tox)" International Programme on Chemical Safety (IPCS)," www.who.int/ipcs/poisons/centre/directory/en/.

Wiaderkiewicz R, Czekaj P, Bogus K, Wiaderkiewicz A, Komarska H, Walczuk B, et al. "Differentiation potential of liver mesenchymal stem cells (MSC) from rats exposed to EMF and/or triclosan," *Toxicol Lett* **2007**, *172*(Supplement 1):S125-S126. http://www.sciencedirect.com/science/article/B6TCR-4PKH640-B9/2/4472dc522c382a8b92d66dbb0528d392.

Wickelgren I. "As the worm ages: epilepsy drugs lengthen nematode life span," *Science* **2005**, *307*(193).

Wicks C, Kelley C, and Peterson E. "Estrogen in a karstic aquifer," Ground Wat 2004, 42(3):384-389.

Widdows J, Nasci C, and Fossato VU. "Effects of pollution on the scope for growth of mussels (Mytilus galloprovincialis) from the Venice Lagoon, Italy," *Mar Environ Res* **1997**, *43*(1-2):69-79.

http://www.sciencedirect.com/science/article/B6V7H-3Y0Y9CF-H/1/a68d2080ec342256a1302769b31562d9.

Wiegant FAC, Souren JEM, and van Wijk R. "Stimulation of survival capacity in heat shocked cells by subsequent exposure to minute amounts of chemical stressors; role of similarity in hsp-inducing effects," *Human Experimental Toxicol* **1999**, *18*:460-470. http://het.sagepub.com/cgi/content/abstract/18/7/460.

Wiegel S, Aulinger A, Brockmeyer R, Harms H, Loffler J, Reincke H, et al. "Pharmaceuticals in the river Elbe and its tributaries," *Chemosphere* **2004**, *57*(2):107-126. http://www.sciencedirect.com/science/article/B6V74-4CYWJKN-2/2/7908afb761d6b2b877885b02c600bc7d.

Wilcox JD. "Transport and fate of organic wastewater contaminants beneath unsewered residential subdivisions " Doctoral Dissertation, University of Wisconsin - Madison, 2007. 183 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2232515 ,FM=9,SEARCH=MD.GenericSearch.

Wilhelmson B. "Ekologiska risker stoppar registrering? (Ecological risks prevent registration?) " *Läkartidningen* **1997**, *94*:1514.

Wilken RD, Ternes TA, and Heberer T. "Pharmaceuticals in Sewage, Surface and Drinking Water in Germany.," in *Security of Public Water Supplies*, Deininger RA, Literathy P and Bartram J, Eds., Kluver Academic Publishers; Dodrecht, NATO Science Series, 2000, 227-240.

Wilkinson KD. "Unchaining the condemned," Nature 2002, 419:351-353.

Wilkison DH, Armstrong DJ, Norman RD, Polton BC, Furlong ET, and Zaugg SD. "Water Quality in the Blue River Basin, Kansas City Metropolitan Area, Missouri and Kansas, July 1998 to October 2004," USGS, July, 2006, pp. http://pubs.usgs.gov/fs/2006/3103/pdf/FS2006-3103.pdf.

Williams BL, and Florez Y. "Do Mexican Americans perceive environmental issues differently than Caucasians: a study of cross-ethnic variation in perceptions related to water in Tucson," *Environ Health Perspect* **2002**, *110 Suppl* 2:303-310. http://www.ncbi.nlm.nih.gov/pubmed/11929742.

Williams CF. "Distribution and Fate of the Human Drug Carbamazepine in Treatment Wetlands," 2008 Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, Session No 66, Organic Contaminants in Water, Soil and Sediments: Sources, Interactions and Ecological Impacts (Posters) <session_22678htm>, Houston, TX, 5-9 October, 2008, http://gsa.confex.com/gsa/2008AM/finalprogram/abstract_140350.htm.

Williams CF, Williams CE, and Adamsen FJ. "Sorption-desorption of carbamazepine from irrigated soils," *J Environ Qual* **2006**, *35*(5):1779-1783. http://jeq.scijournals.org/cgi/content/abstract/35/5/1779.

Williams M, Saison CLA, Williams DB, and Kookana RS. "Can aquatic distribution of human pharmaceuticals be related to pharmacological data?," *Chemosphere* **2006**, *65*(11):2253-2259.

http://www.sciencedirect.com/science/article/B6V74-4KCHD1Y-1/2/9b2921ee3e90c1dcb65aceec1c20b5ae.

Williams RJ, and Heymann DL. "Containment of antibiotic resistance," Science 1998, 279:1153-1154.

Williams RJ, Johnson AC, Smith JJL, and Kanda R. "Steroid estrogens profiles along river stretches arising from sewage treatment works discharges," *Environ Sci Technol* **2003**, *37*(9):1744-1750. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i09/abs/es0202107.html.

Williams RT, Ed., "Human pharmaceuticals: assessing the impacts on aquatic ecosystems," SETAC Press, Pensacola, FL, 2005, 368 pp.

Williams RT. "Human pharmaceuticals in the environment - an introduction," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 1, 1-46.

Williams RT, and Cook JC. "Exposure to pharmaceuticals present in the environment," *Drug Information J* **2007**, *41*(2):133-141.

Williams RT, Huggett DB, and Sager NB. "Human drug development and registration, including an example of how environmental safety is evaluated," in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams R, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 2, 47-70.

Williams TD, Caunter JE, Lillicrap AD, Hutchinson TH, Gillings EG, and Duffell S. "Evaluation of the reproductive effects of tamoxifen citrate in partial and full life-cycle studies using fathead minnows (Pimephales promelas)," *Environ Toxicol Chem* **2007**, *26*(4):695-707.

Willis C. "Antibiotics in the food chain: their impact on the consumer," *Rev Med Microbiol* **2000**, *11*(3):153-160.

Wilson B, Zhu J, Cantwell M, and Olsen CR. "Short-term dynamics and retention of Triclosan in the lower Hudson River Estuary," *Mar Pollut Bull* **2008**, *56*(6):1230-1233. http://www.sciencedirect.com/science/article/B6V6N-4SDFSCK-1/1/e282ecb8aed36ee941ef26fc6fa85d65.

Wilson BA, Smith VH, deNoyelles F, and Larive CK. "Effects of Three Pharmaceutical and Personal Care Products on Natural Freshwater Algal Assemblages," *Environ Sci Technol* **2003**, *37*(9):1713-1719. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es0259741.

Wilson CJ, Brain RA, Sanderson H, Johnson DJ, Bestari KT, Sibley PK, et al. "Structural and functional responses of plankton to a mixture of four tetracyclines in aquatic microcosms," *Environ Sci Technol* **2004**, *38*(23):6430-6439. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i23/html/es049766f.html.

Wilson SC, Duarte-Davidson R, and Jones KC. "Screening the environmental fate of organic contaminants in sewage sludges applied to agricultural soils: 1. The potential for downward movement to groundwaters " *Sci Total Environ* **1996**, *185*(1-3):45-57. http://dx.doi.org/10.1016/0048-9697(95)05041-8

Wilson VS, Lambright C, Ostby J, and Gray LE. "In vitro and in vivo effects of 17 beta-trenbolone: A feedlot effluent contaminant," *Toxicol Sci* **2002**, *70*(2):202-211.

Winberg S, Nilsson GE, and Olsen KH. "The Effect of Stress and Starvation on Brain Serotonin Utilization in Arctic Charr (Salvelinus Alpinus)," *J Exp Biol* **1992**, *165*(1):229-239. http://jeb.biologists.org/cgi/content/abstract/165/1/229.

Winker M, Faika D, Gulyas H, and Otterpohl R. "A comparison of human pharmaceutical concentrations in raw municipal wastewater and yellowwater," *Sci Total Environ* **2008**, *399*(1-3):96-104. http://www.sciencedirect.com/science/article/B6V78-4SDNG13-3/1/5fdbb83c2e17157a53666bb91ce1c755.

Winker M, Tettenborn F, Faika D, Gulyas H, and Otterpohl R. "Comparison of analytical and theoretical pharmaceutical concentrations in human urine in Germany," *Water Research* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4STB0C1-6/1/e20609f66633541263cade2bb057e213.

Winkler G, Fischer R, Krebs P, Thompson A, and Cartmell E. "Mass flow balances of triclosan in rural wastewater treatment plants and the impact of biomass parameters on the removal," *Engineer Life Sci* **2007**, *7*(1):42-51.

Winkler M, Headley JV, and Peru KM. "Optimization of solid-phase microextraction for the gas chromatographic-mass spectrometric determination of synthetic musk fragrances in water samples," *J Chromatogr A* 2000, *903*(1-2):203-210. http://www.sciencedirect.com/science/article/B6TG8-41SCBF8-M/2/a7c9fab0b7eca824ed869b4a60922fd5.

Winkler M, Kopf G, Hauptvogel C, and Neu T. "Fate of artificial musk fragrances associated with suspended particulate matter (SPM) from the River Elbe (Germany) in comparison to other organic contaminants," *Chemosphere* **1998**, *37*(6):1139-1156. http://www.sciencedirect.com/science/article/B6V74-3TN9MWX-X/2/b5fa5fcd1b595fccbe8b9447a152b9bd.

Winkler M, Lawrence JR, and Neu TR. "Selective degradation of ibuprofen and clofibric acid in two model river biofilm systems," *Wat Res* **2001**, *35*(13):3197-3205. http://www.sciencedirect.com/science/article/B6V73-447G39N-P/2/543bd930cbe1905c28cfa842b79d7bcb.

Winter MJ, Lillicrap AD, Caunter JE, Schaffner C, Alder AC, Ramil M, et al. "Defining the chronic impacts of atenolol on embryo-larval development and reproduction in the fathead minnow (Pimephales promelas)," *Aqua Toxicol* **2008**, *86*(3):361-369. http://www.sciencedirect.com/science/article/B6T4G-4R8H1JK-1/2/d7b86223bee44704bb26d88b0b133cb1.

Winterhalter P. "Festphasenmikroextraktion (SPME) : Eine Alternative zu klassischen Extraktionstechniken," 2001, pp. http://nbn-resolving.de/urn:nbn:de:gbv:084-15740.

Wintgens T, Gallenkemper M, and Melin T. "Endocrine disrupter removal from wastewater using membrane bioreactor and nanofiltration technology," *Desalination* **2002**, *146*(1-3):387-391.

http://www.sciencedirect.com/science/article/B6TFX-46WM7M0-74/2/a9bfe14e7c37a7355337a40c0649b918.

Wintgens T, Gallenkemper M, and Melin T. "Occurrence and removal of endocrine disrupters in landfill leachate treatment plants," *Water Sci Technol* **2003**, *48*(3):127-134. http://www.ncbi.nlm.nih.gov/pubmed/14518864.

Wintgens T, and Melin T. "Removing endocrine-disrupting compounds from wastewater," *Membrane Technol* **2001**, *2001*(138):11-12. http://www.ingentaconnect.com/content/els/09582118/2001/00002001/00000138/art80333 http://dx.doi.org/10.1016/S0958-2118(01)80333-5.

Wintgens T, Melin T, Schafer A, Khan S, Muston M, Bixio D, et al. "The role of membrane processes in municipal wastewater reclamation and reuse," *Desalination* **2005**, *178*(1-3):1-11. http://www.sciencedirect.com/science/article/B6TFX-4HBRP0P-2/2/80ebd40d0300fbc24b894c4abd06a594.

Wise AE. "Presence and Fate of the Endocrine Disrupter Octylphenol," Doctoral Dissertation, Cornell University, Ithaca, New York, 2008. 128 pp. http://ecommons.library.cornell.edu/handle/1813/9479 and http://hdl.handle.net/1813/9479.

Wisneski HH. "Determination of musk ambrette, musk xylol, and musk ketone in fragrance products by capillary gas chromatography with electron capture detection," *J AOAC Internat* **2001**, *84*(2):376-381.

Witte W. "Medical consequences of antibiotic use in agriculture," Science 1998, 279:996-997.

Witte W. "Ecological impact of antibiotic use in animals on different complex microflora: environment," *Internat J AntimicrobAgents* **2000**, *14*(4):321-325. http://www.sciencedirect.com/science/article/B6T7H-405KCX1-B/1/9178fda410c2bc10d22a52c1b7ea7528.

Wo KT, Lam PKS, and Wu RSS. "A Comparison of Growth Biomarkers for Assessing Sublethal Effects of Cadmium on a Marine Gastropod, Nassarius festivus," *Mar Pollut Bull* **1999**, *39*(1-12):165-173. http://www.sciencedirect.com/science/article/B6V6N-47XPGRF-T/1/556e85bf6b92ef19eba01a628e89d176.

Wohlschlag DE, and Parker FR. "Fish: Response to Ocean-Dumped Pharmaceutical Wastes," in *Wastes in the Ocean*, John WIley and Sons; New York, N.Y., 1983, 251-270. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707409&q=+pha rmaceutical+disposal&uid=790088066&setcookie=yes.

Wold G HS. "A campaign to promote return of old medicines stored at home," *Tidsskr Nor Laegeforen* **1992**, *112*:1605-1607.

Wolf BL, and Marks A. "Largess, excess, and tithing," *J Allergy Clin Immunol* **2005**, *115*(6):1320-1321. http://www.sciencedirect.com/science/article/B6WH4-4FY295J-6/1/5167c374ab4e245e7b221dd35faf3932.

Wolf L, Eiswirth M, and Hotzl H. "Assessing sewer-groundwater interaction at the city scale based on individual sewer defects and marker species distributions," *Environ Geol* **2006**, *49*(6):849-857.

Wolf L, Held I, Eiswirth M, and Hotzl H. "Impact of leaky sewers on groundwater quality," *Acta Hydrochim Hydrobiol* **2004**, *32*(4-5):361-373. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=6114033&q=auth or%3A%22Wolf%22+intitle%3A%22Impact+of+Leaky+Sewers+on+Groundwater+Quality%22+&ui

d=792698393&setcookie=yes.

Wollenberger L, Breitholtz M, Ole Kusk K, and Bengtsson B-E. "Inhibition of larval development of the marine copepod Acartia tonsa by four synthetic musk substances," *Sci Total Environ* **2003**, *305*(1-3):53-64. http://www.sciencedirect.com/science/article/B6V78-47BXB45-D/2/16e19178bc1cf97544d8160eb1d03d7f.

Wollenberger L, Halling-Sorensen B, and Kusk KO. "Acute and chronic toxicity of veterinary antibiotics to Daphnia magna," *Chemosphere* **2000**, *40*(7):723-730. http://www.sciencedirect.com/science/article/B6V74-3YGDFN6-32/2/fae2fbf3cd2af4bfa455bb3177ce239d.

Wolska L, Sagajdakow A, Kuczynska A, and Namiesnik J. "Application of ecotoxicological studies in integrated environmental monitoring: Possibilities and problems," *TrAC Trends Anal Chem* **2007**, *26*(4):332-344. http://www.sciencedirect.com/science/article/B6V5H-4MP5KHW-1/1/f15152e7881441a6cddb0f113ddb2a01.

Wolters A, and Steffens M. "Photodegradation of antibiotics on soil surfaces: Laboratory studies on sulfadiazine in an ozone-controlled environment," *Environ Sci Technol* **2005**, *39*(16):6071-6078. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i16/abs/es048264z.html.

Wolters Kluwer Health. "Top 200 drugs used in hospitals in 2007," Drug Topics 2008, 152(7D):5.

Wolthers T, Hamberg O, Grofte T, and Vilstrup H. "Effects of budesonide and prednisolone on hepatic kinetics for urea synthesis," *J Hepatol* **2000**, *33*(4):549-554. http://www.sciencedirect.com/science/article/B6W7C-436FX1J-G1/2/eec152a28acea8bdff586f197d412319.

Wong CS. "Environmental fate processes and biochemical transformations of chiral emerging organic pollutants," *Anal Bioanal Chem* **2006**, *386*(3):544-558.

Wong HL, Giesy JP, Siu WHL, and Lam PKS. "Estrogenic and dioxin-like activities and cytotoxicity of sediments and biota from Hong Kong mudflats," *Arch Environ Contam Toxicol* **2005**, *48*(4):575-586.

Wong-Wah-Chung P, Rafqah S, Voyard G, and Sarakha M. "Photochemical behaviour of triclosan in aqueous solutions: Kinetic and analytical studies," *J Photochem Photobiol A: Chem* **2007**, *191*(2-3):201-208. http://www.sciencedirect.com/science/article/B6TGY-4NMSRVB-1/2/6b7d7443907c871efd64e781f7aab5cd.

Wood M, Laloup M, Pien K, Samyn N, Morris M, Maes RAA, et al. "Development of a Rapid and Sensitive Method for the Quantitation of Benzodiazepines in Calliphora vicina Larvae and Puparia by

LC-MS-MS," *J Anal Toxicol* **2003**, 27:505-512. http://www.ingentaconnect.com/content/pres/jat/2003/00000027/00000007/art00017.

Woodbeck M. "Evaluating the potential genotoxicity of disinfected source waters " Masters Dissertation, University of Toronto, Toronto, Ontario, Canada, 2007. 157 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2224209 ,FM=9,SEARCH=MD.GenericSearch.

Woodling JD, Lopez EM, Maldonado TA, Norris DO, and Vajda AM. "Intersex and other reproductive disruption of fish in wastewater effluent dominated Colorado streams," *Comp Biochem Physiol Part C - Pharmacol Toxicol Endocrinol* **2006**, *144*(1):10-15. http://www.sciencedirect.com/science/article/B6W89-4KHBXMV-1/2/712996e649b5b1376c7d32005a90e24d.

Woodruff TJ, Carlson A, Schwartz JM, and Giudice LC. "Proceedings of the Summit on Environmental Challenges to Reproductive Health and Fertility: executive summary," *Fertility and Sterility* **2008**, *89*(2, Supplement 1):e1-e20. http://www.sciencedirect.com/science/article/B6T6K-4S04VHT-2/1/3643604a2b50681f67ad9b6a180886a5.

Woodruff TJ, Carlson A, Schwartz JM, and Giudice LC. "Proceedings of the Summit on Environmental Challenges to Reproductive Health and Fertility: executive summary special contribution," *Fertility and Sterility* **2008**, *89*(2):281-300. http://www.sciencedirect.com/science/article/B6T6K-4RTKXG7-4/1/65de101d9b3b4789f364ee776bd9090a.

Woodward KN. "The evolution of safety assessments for veterinary medicinal products in the European Union," *Vet Human Toxicol* **2004**, *46*(4):199-205.

Woodward KN. "Veterinary pharmacovigilance. Part 2. Veterinary pharmacovigilance in practice - the operation of a spontaneous reporting scheme in a European Union country - the UK, and schemes in other countries," *J Vet Pharmacol Therapeut* **2005**, *28*(2):149-170.

Woodward KN. "Veterinary pharmacovigilance. Part 3. Adverse effects of veterinary medicinal products in animals and on the environment," *J Vet Pharmacol Therapeut* **2005**, *28*(2):171-184.

Woodward KN. "Assessment of user safety, exposure and risk to veterinary medicinal products in the European Union," *Reg Toxicol Pharmacol* **2008**, *50*(1):114-128. http://www.sciencedirect.com/science/article/B6WPT-4PYP76G-1/2/5ddfc52986a2b601234dee2e5a62983e.

Woolf A, Burkhart K, Caraccio T, and Litovitz T. "Childhood Poisoning Involving Transdermal Nicotine Patches," *Pediatrics* **1997**, *99*(5):e4. http://pediatrics.aappublications.org/cgi/content/abstract/99/5/e4.

Wormuth M, Scheringer M, and Hungerbuhler K. "Linking the use of scented consumer products to consumer exposure to polycyclic musk fragrances," *J Ind Ecol* **2005**, *9*(1-2):237-258.

Wozei E, and Hermanowicz SW. "Application of a yeast-based assay protocol developed to monitor total oestrogenic activity induced by 17 beta-oestradiol in activated sludge supernatants from batch experiments," *Wat SA* **2006**, *32*(3):355-364.

Wozei E, and Hermanowicz SW. "Developing a yeast-based assay protocol to monitor total oestrogenic activity induced by 17 beta-oestradiol in activated sludge supernatants from batch experiments," *Wat SA* **2006**, *32*(3):345-354.

Wozniak AL, Bulayeva NN, and Watson CS. "Xenoestrogens at picomolar to nanomolar concentrations trigger membrane estrogen receptor- α -medicated Ca²⁺ fluxes and prolactin release in GH3/B6 pituitary tumor cells," *Environ Health Perspect* **2005**, *113*(4):431-439. http://www.ehponline.org/docs/2005/7505/abstract.html.

Wright MS, Peltier GL, Stepanauskas R, and McArthur JV. "Bacterial tolerances to metals and antibiotics in metal-contaminated and reference streams," *FEM Microbiol Ecol* **2006**, *58*:293-302.

Wu J, and Lee HK. "Orthogonal array designs for the optimization of liquid-liquid-liquid microextraction of nonsteroidal anti-inflammatory drugs combined with high-performance liquid chromatography-ultraviolet detection," *J Chromatogr A* **2005**, *1092*(2):182-190. http://www.sciencedirect.com/science/article/B6TG8-4GVGTMF-2/2/e53649dd4b647adfe9b62f0a85679192.

Wu J-L, Lam NP, Martens D, Kettrup A, and Cai Z. "Triclosan determination in water related to wastewater treatment," *Talanta* **2007**, *72*(5):1650-1654. http://www.sciencedirect.com/science/article/B6THP-4NB2WFV-1/2/d623a852c3092700a0800d94fe41b644.

Wu Q, Wang M, and Simon JE. "Analytical methods to determine phytoestrogenic compounds," *J Chromatogr B: Biomed Sci Applications* **2004**, *812*(1-2):325-355. http://www.sciencedirect.com/science/article/B6X0P-4D98FJV-4/2/415206f4e672073ddfa513388ae03b89.

Xi YL, and Feng LK. "Effects of thiophanate-methyl and glyphosate on asexual and sexual reproduction in the rotifer Brachionus calyciflorus Pallas," *Bull Environ Contam Toxicol* **2004**, *73*(4):644-651.

Xia K, Bhandari A, Das K, and Pillar G. "Occurrence and fate of pharmaceuticals and personal care products (PPCPs) in biosolids," *J Environ Qual* **2005**, *34*(1):91-104. http://jeq.scijournals.org/cgi/content/full/34/1/91.

Xia K, and Jeong CY. "Photodegradation of the endocrine-disrupting chemical 4-nonylphenol in biosolids applied to soil," *J Environ Qual* **2004**, *33*(4):1568-1574.

Xiangping N, Wang X, Chen J, and Vladimir Z. "Response of the Freshwater Alga Chlorella vulgaris to Trichloroisocyanuric Acid and Ciprofloxacin," *Environ Toxicol Chem* **2007**, *preprint*(2007):0000-0000. http://dx.doi.org/10.1897%2F07-028.

Xiao XY, McCalley DV, and McEvoy J. "Analysis of estrogens in river water and effluents using solid-phase extraction and gas chromatography-negative chemical ionisation mass spectrometry of the pentafluorobenzoyl derivatives," *J Chromatogr A* **2001**, *923*(1-2):195-204.

Xie L, Sapozhnikova Y, Bawardi O, and Schlenk D. "Evaluation of wetland and tertiary wastewater treatments for estrogenicity using in vivo and in vitro assays," *Arch Environ Contam Toxicol* **2005**, *48*(1):81-86.

Xie S, Deng H, Xiang B, and Xiang S. "Detection of Trace Triclocarban in Water Sample Using Solid-Phase Extraction - Liquid Chromatography with Stochastic Resonance Algorithm," *Environ Sci Technol* **2008**, *42*(8):2988-2991. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702856u.

Xie Z, and Ebinghaus R. "Analytical methods for the determination of emerging organic contaminants in the atmosphere," *Anal Chim Acta* **2008**, *610*(2):156-178. http://www.sciencedirect.com/science/article/B6TF4-4RR1NV8-1/1/ba0857d81ccb497776c87bfae84a0a2e.

Xie Z, Ebinghaus R, Flöser G, Caba A, and Ruck W. "Occurrence and distribution of triclosan in the German Bight (North Sea)," *Environmental Pollution* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6VB5-4SJ9KW8-1/1/2c853e090753e4a9b555a038984b1f04.

Xie Z, Ebinghaus R, Temme C, Heemken O, and Ruck W. "Air-sea exchange fluxes of synthetic polycyclic musks in the North Sea and the Arctic," *Environ Sci Technol* **2007**, *41*(16):5654-5659. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17874769.

Xie ZY, Huang HH, and Zhong DF. "Biotransformation of pantoprazole by the fungus Cunninghamella blakesleeana," *Xenobiotica* **2005**, *5*:467.

Xing MY, Deng C, Godefroid B, and Yang J. "Treatment of pharmaceutical wastewater containing recalcitrant compounds in a Fenton-coagulation process," *J Environ Sciences-China* **2006**, *18*(3):459-463.

Xu CL, Peng CF, Kai H, Jin ZY, and Wang WK. "Quantitative analysis of chloramphenicol residues in shrimp muscle tissues by chemiluminescent enzyme immunoassay," *Czech J Food Sci* **2005**, *23*(6):251-256.

Xu H, Yang J, Wang Y, Jiang Q, Chen H, and Song H. "Exposure to 17α-ethynylestradiol impairs reproductive functions of both male and female zebrafish (Danio rerio)," *Aqua Toxicol* **2008**, *88*(1):1-8. http://www.sciencedirect.com/science/article/B6T4G-4RX06XB-1/1/4956d016c69d79c1deed0a2eceb06fb5.

Xu J, Wu L, Chen W, and Chang AC. "Simultaneous Determination of Pharmaceuticals, Endocrine Disrupting Compounds and Hormone in Soils by Gas Chromatography-Mass Spectrometry," *J Chromatogr A* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TG8-4SX9G03-3/1/77b0d7340d85e9872866b10ac99e463c. Xu JY, Gallert C, and Winter J. "Multiple antibiotic resistances of Enterococcus isolates from raw or sand-filtered sewage," *Appl Microbiol Biotechnol* **2007**, *74*(2):493-500. http://www.springerlink.com/content/rlp0061872368965/.

Xu K, Harper Jr WF, and Zhao D. "17α-ethinylestradiol sorption to activated sludge biomass: Thermodynamic properties and reaction mechanisms," *Wat Res* **2008**, *42*(12):3146-3152. http://www.sciencedirect.com/science/article/B6V73-4S2TRWX-1/2/b37e994c7ec1d785d9e218b5af5e8376.

Xu RN, Boyd B, Rieser MJ, and EI-Shourbagy TA. "Simultaneous LC-MS/MS quantitation of a highly hydrophobic pharmaceutical compound and its metabolite in urine using online monolithic phase-based extraction," *J Sep Sci* **2007**, *30*(17):2943-2949.

Xu SH, and Chandra G. "Fate of cyclic methylsiloxanes in soils. 2. Rates of degradation and volatilization," *Environ Sci Technol* **1999**, *33*(22):4034-4039. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/1999/33/i22/abs/es990099d.html.

Xu WH, Zhang G, Li XD, Zou SC, Li P, Hu ZH, et al. "Occurrence and elimination of antibiotics at four sewage treatment plants in the Pearl River Delta (PRD), South China," *Wat Res* **2007**, *41*(19):4526-4534.

Xu W-h, Zhang G, Zou S-c, Li X-d, and Liu Y-c. "Determination of selected antibiotics in the Victoria Harbour and the Pearl River, South China using high-performance liquid chromatography-electrospray ionization tandem mass spectrometry," *Environ Pollut* **2007**, *145*(3):672-679. http://www.sciencedirect.com/science/article/B6VB5-4KY88TN-3/2/b750a0c9b1ac0f97a86538ceda347c06.

Xu Z, Li L, and Shen Z. "Treatment of praziquantel wastewater using the integrated process of coagulation and gas membrane absorption," *Wat Res* **2005**, *39*(10):2189-2195. http://www.sciencedirect.com/science/article/B6V73-4G94HD3-1/2/22c3806eac469fdbc7bd73163d6468ce.

Yamagishi T, Miyazaki T, Horii S, and Akiyama K. "Synthetic musk residues in biota and water from Tama River and Tokyo Bay (Japan)," *Arch Environ Contam Toxicol* **1983**, *12*:83-89.

Yamagishi T, Miyazaki T, Horii S, and Kaneko S. "Identification of musk xylene and musk ketone in freshwater fish collected from the Tama River, Tokyo," *Bull Environ Contam Toxicol* **1981**, *26*:656-662.

Yamagiwa K, Yoshida M, Ohkawa A, and Takesono S. "Biological treatment of highly foaming pharmaceutical wastewater by modified bubble-column under mechanical foam control," *Wat Sci Technol* **2000**, *42*(3-4):331-337. http://www-32.cis.portlandcs.net/wst/04203/wst042030331.htm.

Yamamoto A, Kakutani N, Yamamoto K, Kamiura T, and Miyakoda H. "Steroid hormone profiles of urban and tidal rivers using LC/MS/MS equipped with electrospray ionization and atomospheric pressure photoionization sources," *Environ Sci Technol* **2006**, *40*(13):4132-4127. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2006/40/i13/html/es052593p.html. Yamamoto H, and Liljestrand HM. "Partitioning of selected estrogenic compounds between synthetic membrane vesicles and water: Effects of lipid components," *Environ Sci Technol* **2004**, *38*(4):1139-1147. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i04/html/es034311w.html.

Yamamoto H, Liljestrand HM, and Shimizu Y. "Effects of dissolved organic matter surrogates on the partitioning of 17β-estradiol and p-nonylphenol between synthetic membrane vesicles and water," *Environ Sci Technol* **2004**, *38*(8):2351-2358. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2004/38/i08/html/es0347311.html.

Yamamoto H, Liljestrand HM, Shimizu Y, and Morita M. "Effects of physical-chemical characteristics on the sorption of selected endocrine disrnptors by dissolved organic matter surrogates," *Environ Sci Technol* **2003**, *37*(12):2646-2657. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i12/abs/es026405w.html.

Yamani S. "Zebrafish (Danio rerio) and Japanese medaka (Oryzias latipes) as model species for evaluation of endocrine disrupting chemicals," Masters Dissertation, University of Agricultural Science, Uppsala, Sweden, 2004. 60 pp. http://diss-epsilon.slu.se/archive/00001260/.

Yamashita N, Tanaka H, Miyajima K, and Suzuki Y. "Evaluation of effect of sewage effluent on river water quality using agp and algal growth inhibition tests," *Doboku Gakkai Ronbunshuu G* **2006**, *62*(1):191-200. http://www.jstage.jst.go.jp/article/jscejg/62/1/62_191/_article.

Yamashita N, Tanaka H, Miyajima K, Tamamoto H, Miyamoto N, Yasojima M, et al. "Fate estimation of Estrogenic substances in an urban river by flux calculation," *Wat Environ Res* **2006**, *78*(12):2330-2334.

Yamashita N, Yasojima M, Nakada N, Miyajima K, Komori K, Suzuki Y, et al. "Effects of antibacterial agents, levofloxacin and clarithromycin, on aquatic organisms," *Wat Sci Technol* **2006**, *53*(11):65-72.

Yamini Y, Reimann CT, Vatanara A, and Jonsson JA. "Extraction and preconcentration of salbutamol and terbutaline from aqueous samples using hollow fiber supported liquid membrane containing anionic carrier," *J Chromatogr A* **2006**, *1124*(1-2):57-67. http://www.sciencedirect.com/science/article/B6TG8-4K12947-C/2/ccf48f02cfa4e7e7fc6da9fb8730835c.

Yang HK. "Essays on direct-to-consumer advertising "Doctoral Dissertation, Cornell Univeersity, 2007. 112 pp. http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2229342 ,FM=9,SEARCH=MD.GenericSearch.

Yang J-J, and Metcalfe CD. "Fate of synthetic musks in a domestic wastewater treatment plant and in an agricultural field amended with biosolids," *Sci Total Environ* **2006**, *363*(1-3):149-165. http://www.sciencedirect.com/science/article/B6V78-4GSJXBR-3/2/cff5e995719df3f6d33affe3e1d183d7.

Yang L, Luan T, and Lan C. "Solid-phase microextraction with on-fiber silylation for simultaneous determinations of endocrine disrupting chemicals and steroid hormones by gas chromatography-mass spectrometry," *J Chromatogr A* **2006**, *1104*(1-2):23-32.

http://www.sciencedirect.com/science/article/B6TG8-4J0X89T-3/2/d8c48bac4af5c8b7ee75f2d1be21b771.

Yang L, Yu LE, and Ray MB. "Photocatalytic Oxidation of Paracetamol in Water," *Wat Res Manage* **2007**, http://www.actapress.com/PaperInfo.aspx?PaperID=31164&reason=500.

Yang L, Yu LE, and Ray MB. "Degradation of paracetamol in aqueous solutions by TiO2 photocatalysis," *Wat Res* **2008**, *42*(13):3480-3488. http://www.sciencedirect.com/science/article/B6V73-4SFS0JN-1/1/6c5d4e6750f1ec6de9f7f7081184411a.

Yang LH, Lan CY, Liu HT, Dong J, and Luan TG. "Full automation of solid-phase microextraction/on-fiber derivatization for simultaneous determination of endocrine-disrupting chemicals and steroid hormones by gas chromatography-mass spectrometry," *Anal Bioanal Chem* **2006**, *386*:391-397.

Yang L-H, Ying G-G, Su H-C, Stauber J, Adams M, and Binet M. "Growth-inhibiting effects of twelve antibacterial agents and their mixtures on the freshwater microalga pseudokirchneriella subcapitata," *Environ Toxicol Chem* **2008**, *27*(5):1201-1208. http://dx.doi.org/10.1897%2F07-471.

Yang S, and Carlson K. "Evolution of antibiotic occurrence in a river through pristine, urban and agricultural landscapes," *Wat Res* **2003**, *37*(19):4645-4656. http://www.sciencedirect.com/science/article/B6V73-49J8SGF-3/2/2e3b08fae1f5d3df9a7162928c3cbc06.

Yang S, and Carlson K. "Routine monitoring of antibiotics in water and wastewater with a radioimmunoassay technique," *Wat Res* **2004**, *38*(14-15):3155-3166. http://www.sciencedirect.com/science/article/B6V73-4CPDDSY-2/2/c7f330b4fc893c566c946c8269dac788.

Yang S, and Carlson KH. "Solid-phase extraction-high-performance liquid chromatography-ion trap mass spectrometry for analysis of trace concentrations of macrolide antibiotics in natural and waste water matrices," *J Chromatogr A* **2004**, *1038*(1-2):141-155. http://www.sciencedirect.com/science/article/B6TG8-4C47GRG-1/2/e25bf741fcddc08ce64b55bc5fc6132d.

Yang S, Cha J, and Carlson K. "Simultaneous extraction and analysis of 11 tetracycline and sulfonamide antibiotics in influent and effluent domestic wastewater by solid-phase extraction and liquid chromatography-electrospray ionization tandem mass spectrometry," *J Chromatogr A* 2005, *1097*(1-2):40-53. http://www.sciencedirect.com/science/article/B6TG8-4H0S1H2-2/2/8dfe6064edae3a26dbf4e844f45a927e.

Yang SW, Cha JM, and Carlson KH. "Trace analysis and occurrence of anhydroerythromycin and tylosin in influent and effluent wastewater by liquid chromatography combined with electrospray tandem mass spectrometry," *Anal Bioanal Chem* **2006**, *385*(3):623-636. http://www.ncbi.nlm.nih.gov/pubmed/16715282.

Yang SW, Chan TM, Terracciano J, Patel R, Loebenberg D, Chen GD, et al. "A new anthracycline antibiotic micromonomycin from Micromonospora sp.," *J Antibiotics* **2004**, *57*(9):601-604.

Yang TS. "Environmental sustainability and social desirability issues in pig feeding," *Asian-Australasian J Animal Sci* **2007**, *20*(4):605-614. http://cat.inist.fr/?aModele=afficheN&cpsidt=18465809.

Yangall-Quintanilla V, Klm T-U, Kennedy M, and Amy G. "Prediction of RO/NF membrane rejections of PhACs and organic compounds: a statistical analysis," *Drink Water Eng Sci Discuss* **2008**, *1*:21-44. http://www.drink-water-eng-sci-discuss.net/1/21/2008/dwesd-1-21-2008-print.pdf.

Yargeau V. "Impact of Operating Conditions on Decomposition of Antibiotics During Ozonation: A Review," *Ozone: Science & Engineering* **2008**, *30*(3):175-188.

Yasojima M, Nakada N, Komori K, Suzuki Y, and Tanaka H. "Occurrence of levofloxacin, clarithromycin and azithromycin in wastewater treatment plant in Japan," *Wat Sci Technol* **2006**, *53*(11):227-233.

Yazdankhah SP, Scheie AA, Hoiby EA, Lunestad BT, Heir E, Fotland TO, et al. "Triclosan and antimicrobial resistance in bacteria: an overview," *Microbial Drug Resistance* **2006**, *12*(2):83-90. http://www.liebertonline.com/doi/abs/10.1089/mdr.2006.12.83.

Ye S, Yao ZW, Na GS, Wang JY, and Ma DY. "Rapid simultaneous determination of 14 sulfonamides in wastewater by liquid chromatography tandem mass spectrometry," *J Sep Sci* **2007**, *30*(15):2360-2369.

Ye X, Bishop AM, Needham LL, and Calafat AM. "Automated on-line column-switching HPLC-MS/MS method with peak focusing for measuring parabens, triclosan, and other environmental phenols in human milk," *Anal Chim Acta* **2008**, *622*(1-2):150-156. http://www.sciencedirect.com/science/article/B6TF4-4SNGM7Y-2/1/0cb5daf93aaade2e0a2b8575f394d5ba.

Ye X, Kuklenyik Z, Bishop AM, Needham LL, and Calafat AM. "Quantification of the urinary concentrations of parabens in humans by on-line solid phase extraction-high performance liquid chromatography-isotope dilution tandem mass spectrometry," *J Chromatogr B: Biomed Sci Applications* **2006**, *844*(1):53-59. http://www.sciencedirect.com/science/article/B6X0P-4KKFPBY-3/2/7165d5de938c6a497711f6dc8592f42c.

Ye Z, Weinberg HS, and Meyer MT. "Trace Analysis of Trimethoprim and Sulfonamide, Macrolide, Quinolone, and Tetracycline Antibiotics in Chlorinated Drinking Water Using Liquid Chromatography Electrospray Tandem Mass Spectrometry," *Anal Chem* **2007**, *79*(3):1135-1144. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac060972a.

Yebra MC, and Cespon RM. "Automatic determination of quinine by atomic absorption spectrometry," *Microchem J* 2000, *65*(1):81-86. http://www.sciencedirect.com/science/article/B6W6H-40NFS6C-D/2/d3ae436937b554508d12ee00de2aa582.

Yebra MC, Cespon RM, and Moreno-Cid A. "Automatic determination of ascorbic acid by flame atomic absorption spectrometry," *Anal Chimica Acta* **2001**, *448*(1-2):157-164.

http://www.sciencedirect.com/science/article/B6TF4-44SH5FC-K/2/0d869c25f90ce03a2b3dfab5830c3dd8.

Yeom D-H, Lee S-A, Kang GS, Seo J, and Lee S-K. "Stressor identification and health assessment of fish exposed to wastewater effluents in Miho Stream, South Korea," *Chemosphere* **2007**, *67*(11):2282-2292. http://www.sciencedirect.com/science/article/B6V74-4MX4VN6-1/2/84c13f38f121671ac1870a34801098ac.

Yerasi AB, and Butts JD. "Disposal of used fentanyl patches.," *Am J Health-Sys Pharm* **1997**, *54*(1):85-86.

Yeston J. "CHEMISTRY: Peering down the Drain," *Science* **2008**, *321*(5887):318a-. http://www.sciencemag.org.

Yi T, and Harper Jr WF. "Corrigendum to "The effect of biomass characteristics on the partitioning and sorption hysteresis of 17[alpha]-ethinyl estradiol": [Water Res. 41 (2007) 07]," *Wat Res* 2007, *41*(15):3513. http://www.sciencedirect.com/science/article/B6V73-4NSMMN0-3/2/f736fac6204675d9b12f116fa192e5f6.

Yi T, and Harper JWF. "The effect of biomass characteristics on the partitioning and sorption hysteresis of 17[alpha]-ethinylestradiol," *Wat Res* **2007**, *41*(7):1543-1553. http://www.sciencedirect.com/science/article/B6V73-4N08M4Y-4/2/960dde06c2b0b53f43a7b18caf3f0bfb.

Yi T, and Harper WF. "The link between nitrification and biotransformation of 17α-ethinylestradiol," *Environ Sci Technol* **2007**, *41*(12):4311-4316. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2007/41/i12/pdf/es070102q.pdf.

Yildirim MA, Goh K-I, Cusick ME, Barabási A-L, and Vidal M. "Drug-target network," *Nature Biotechnol* **2007**, *25*(10):1119-1126.

Yin Y, He X, Szewczyk P, Nguyen T, and Chang G. "Structure of the multidrug transporter EmrD from escherichia coli," *Science* **2006**, *312*(5774):741-744.

Ying G-G. "Analysis of endocrine disrupting chemicals and pharmaceuticals and personal care products in water," in *Handbook of water analysis*, Second ed.; Nollet LML, Ed., CRC Press Taylor & Francis Group, 2005, 25, 693-728.

http://books.google.com/books?hl=en&lr=&id=YZpW4Y4Q_PIC&oi=fnd&pg=PA693&dq=sewage+Sulfacetamide&ots=EHavYnXIF4&sig=6hPa7Bz5SfvGacaAQdHylOqIGnU

Ying GG, and Kookana RS. "Degradation of five selected endocrine-disrupting chemicals in seawater and marine sediment," *Environ Sci Technol* **2003**, *37*(7):1256-1260. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i07/abs/es0262232.html.

Ying GG, and Kookana RS. "Sorption and degradation of estrogen-like-endocrine disrupting chemicals in soil," *Environ Toxicol Chem* **2005**, *24*(10):2640-2645.

Ying GG, Kookana RS, and Chen ZL. "On-line solid-phase extraction and fluorescence detection of selected endocrine disrupting chemicals in water by high-performance liquid chromatography," *J Environ Sci Health Part B Pesticides Food Contam Agric Wastes* **2002**, *37*(3):225-234.

Ying GG, Kookana RS, and Dillon P. "Attenuation of two estrogen compounds in aquifer materials supplemented with sewage effluent," *Ground Wat Monit Remediation* **2004**, *24*(2):102-107.

Ying GG, Kookana RS, and Kumar A. "Fate of estrogens and xenoestrogens in four sewage treatment plants with different technologies," *Environ Toxicol Chem* **2008**, *27*(1):87-94. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F07-046.1.

Ying G-G, Kookana R, and Waite TD. "Endocrine Disrupting Chemicals (EDCs) and Pharmaceuticals and Personal Care Products (PPCPs) in Reclaimed Water in Australia," Australian Water Conservation and Reuse Research Program, a joint initiative of CSIRO and AWA, January, 2004, 35 pp.

Ying G-G, and Kookana RS. "Triclosan in wastewaters and biosolids from Australian wastewater treatment plants," *Environ Internat* **2007**, *33*(2):199-205. http://www.sciencedirect.com/science/article/B6V7X-4M4TNS8-2/2/9892c78c391833c92865be9f27fbdfae.

Ying G-G, Kookana RS, and Dillon P. "Sorption and degradation of selected five endocrine disrupting chemicals in aquifer material," *Wat Res* **2003**, *37*(15):3785-3791. http://www.sciencedirect.com/science/article/B6V73-491R4FC-2/2/faebe4929e49dc4f25a9620414c30aea.

Ying G-G, Kookana RS, and Ru Y-J. "Occurrence and fate of hormone steroids in the environment," *Environ Internat* **2002**, *28*(6):545-551. http://www.sciencedirect.com/science/article/B6V7X-470TXMD-3/2/bc63535155b863a3e5b4a3a26f70c97d.

Ying G-G, Toze S, Hanna J, Yu X-Y, Dillon PJ, and Kookana RS. "Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater," *Wat Res* **2008**, *72*(4-5):1133-1141. http://www.sciencedirect.com/science/article/B6V73-4PKXBMR-3/2/36e36bc130d51b9fc0a3767256b61b1e.

Ying G-G, Yu X-Y, and Kookana RS. "Biological degradation of triclocarban and triclosan in a soil under aerobic and anaerobic conditions and comparison with environmental fate modelling," *Environ Pollut* **2007**, *150*(3):300-305. http://www.sciencedirect.com/science/article/B6VB5-4NK47BD-1/2/9ab09fa912e5d598d850fee28cecad17.

Ylitalo GM, Buzitis J, and Krahn MM. "Analyses of tissues of eight marine species from Atlantic and Pacific coasts for dioxin-like chlorobiphenyls (CBs) and total CBs," *Arch Environ Contam Toxicol* **1999**, *37*:205-219.

Yokota S-i, Kitahara M, and Nagata K. "Benzylidene Lactam Compound, KNK437, a Novel Inhibitor of Acquisition of Thermotolerance and Heat Shock Protein Induction in Human Colon Carcinoma Cells," *Cancer Res* **2000**, *60*(11):2942-2948. http://cancerres.aacrjournals.org/cgi/content/abstract/60/11/2942. Yonezawa T, Hasegawa S-i, Ahn J-Y, Cha B-Y, Teruya T, Hagiwara H, et al. "Tributyltin and triphenyltin inhibit osteoclast differentiation through a retinoic acid receptor-dependent signaling pathway," *Biochem Biophys Res Commun* **2007**, *355*(1):10-15. http://www.sciencedirect.com/science/article/B6WBK-4MW8WK4-1/2/77569fe358a18dbd90d9a14125e7ebfb.

Yoon Y, Westerhoff P, and Snyder SA. "Adsorption of ³H-Labeled 17-β Estradiol on Powdered Activated Carbon," *Wat Air Soil Pollut* **2005**, *166*(1-4):343-351. http://www.springerlink.com/content/k693427m67xw882v/?p=f316140c61b9466ba21e7a89917742fa &pi=20.

Yoon Y, Westerhoff P, Snyder SA, and Wert EC. "Nanofiltration and ultrafiltration of endocrine disrupting compounds, pharmaceuticals and personal care products," *J Membrane Sci* **2006**, *270*(1-2):88-100. http://www.sciencedirect.com/science/article/B6TGK-4GSJXHH-1/2/e47302f98b686c32fc4679f56ff11478.

Yoon Y, Westerhoff P, Snyder SA, Wert EC, and Yoon J. "Removal of endocrine disrupting compounds and pharmaceuticals by nanofiltration and ultrafiltration membranes," *Desalination* **2007**, *202*(1-3):16-23. http://www.sciencedirect.com/science/article/B6TFX-4MG7BS6-5/2/9f30841f0ae735215c2ca34a6628034d.

Yoon Y, Westerhoff P, Yoon J, and Snyder SA. "Removal of 17β estradiol and fluoranthene by nanofiltration and ultrafiltration," *J Environ Eng-ASCE* **2004**, *130*(12):1460-1467. http://ascelibrary.aip.org/vsearch/servlet/VerityServlet?KEY=ASCERL&possible1=Yoon%2C+Yeomi n&possible1zone=author&maxdisp=25&smode=strresults&aqs=true.

Yoon YM, Westerhoff P, Snyder SA, and Esparza M. "HPLC-fluorescence detection and adsorption of bisphenol A, 17 beta-estradiol, and 17 alpha-ethynyl estradiol on powdered activated carbon," *Wat Res* **2003**, *37*(4):3530-3537.

Yoshida N, Castro M, du Mortier C, and Cirelli AF. "Environmental behavior of antibiotic monensin: preliminary studies in Argentina," *Environ Chem Lett* **2007**, *5*(3):157-160.

Yoshimoto T, Nagai F, Fujimoto J, Watanabe K, Mizukoshi H, Makino T, et al. "Degradation of Estrogens by Rhodococcus zopfii and Rhodococcus equi Isolates from Activated Sludge in Wastewater Treatment Plants," *Appl Environ Microbiol* **2004**, *70*(9):5283-5289. http://aem.asm.org/cgi/content/abstract/70/9/5283.

Yoshimura H, and Endoh YS. "Acute toxicity to freshwater organisms of antiparasitic drugs for veterinary use," *Environ Toxicol* **2005**, *20*(1):60-66.

Yoshimura H, Endoh YS, and Harada K. "Gryllus bimaculatus: A possible bioindicator organism for detection of chemical pollutants in terrestrial systems," *Ecological Indicators* **2005**, *5*(3):181-188. http://www.sciencedirect.com/science/article/B6W87-4G992T0-1/2/282a3cb1a5eab0b465ae345b995f8ee8.

Young D. "Improper discard of toxic drugs hurts environment, leads to fines," *Am J Health-Syst Pharm* **2001**, *58*(17):1576-1578.

Young WF, Whitehouse P, Johnson I, Sorokin N, and WRc-NSF. "Proposed predicted-no-effectconcentrations (PNECs) for natural and synthetic steroid oestrogens in surface waters," Environment Agency R&D Dissemination Centre, ETAS Technical Service, R&D Technical Report P2-T04/1, Swindon, Wilts, 172 pp. http://publications.environment-agency.gov.uk/pdf/SP2-T04-TR1-ep.pdf?lang= e.

Yu CP, and Chu KH. "Occurrence of pharmaceuticals and personal care products in East Tennessee rivers," *Abstracts of Papers of the Amer Chem Soc* **2004**, 228(1 Aug 22):U637-U637.

Yu CP, Roh H, and Chu KH. "17B-estradiol-degrading bacteria isolated from activated sludge," *Environ Sci Technol* **2007**, *41*(2):486-492. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es060923f.

Yu DB, Li Y, Sleigh AC, Yu XL, Li YS, Wei WY, et al. "Efficacy of praziquantel against Schistosoma japonicum: field evaluation in an area with repeated chemotherapy compared with a newly identified endemic focus in Hunan," *China Transactions of the Royal Society of Tropical Medicine and Hygiene* **2001**, *95*:537-541.

Yu DB, Ross AGP, Williams GM, Li YS, and McManus DP. "Determinants of hepato- and splenomegaly in Hunan, China: cross-sectional survey data from areas endemic for schistosomiasis "*Annals Tropical Med Parasitol* **2001**, *95*:707-713.

Yu J, Bisceglia KJ, Coelhan M, Roberts AL, and Bouwer EJ. "Predicting the influence of operating characteristics on pharmaceutical and personal care products removal in wastewater treatment plants," *Abstracts of Papers of the AmChem Soc* **2006**, *231*(Mar 26).

Yu JC, Kwong TY, Luo Q, and Cai Z. "Photocatalytic oxidation of triclosan," *Chemosphere* **2006**, *65*(3):390-399. http://www.sciencedirect.com/science/article/B6V74-4JKJSXV-3/2/346803b15c3b1205cc5629be3fc5dc5b.

Yu JT, Bouwer EJ, and Coelhan M. "Occurrence and biodegradability studies of selected pharmaceuticals and personal care products in sewage effluent," *Agric Wat Management* **2006**, *86*(1-2):72-80. http://www.sciencedirect.com/science/article/B6T3X-4KPX8TS-1/2/c5e0d1dd207e4287372061092b18624e.

Yu S, Lee B, Lee M, Cho I-H, and Chang S-W. "Decomposition and mineralization of cefaclor by ionizing radiation: Kinetics and effects of the radical scavengers," *Chemosphere* **2008**, *71*(11):2106-2112. http://www.sciencedirect.com/science/article/B6V74-4S02YY1-1/1/4fc2c19f76b19f6823e37d060c45728c.

Yu SJ, Gomez DG, and Campiglia AD. "Solid-liquid extraction fluorescence line narrowing spectroscopy of fluoroquinolones in aqueous samples," *Appl Spectroscopy* **2006**, *60*(10):1174-1180.

Yu X, Trapp S, Zhou P, Peng X, and Cao X. "Response of weeping willows to linear alkylbenzene sulfonate," *Chemosphere* **2006**, *64*(1):43-48. http://www.sciencedirect.com/science/article/B6V74-4HYV02J-7/2/e245e5d5443d76a73ddcac7e48d90898.

Yu Z, Peldszus S, and Huck PM. "Optimizing gas chromatographic-mass spectrometric analysis of selected pharmaceuticals and endocrine-disrupting substances in water using factorial experimental

design," *J Chromatogr A* **2007**, *1148*(1):65-77. http://www.sciencedirect.com/science/article/B6TG8-4N3P06C-2/2/32864969995303002cf2b40166bd9bfa.

Yu Z, Peldszus S, and Huck PM. "Adsorption characteristics of selected pharmaceuticals and an endocrine disrupting compound--Naproxen, carbamazepine and nonylphenol--on activated carbon," *Wat Res* **2008**, *42*(12):2873-2882. http://www.sciencedirect.com/science/article/B6V73-4S03RC5-3/1/09d3b5b77759bb3390197ea7e14e9e62.

Yu ZQ, and Huang WL. "Competitive sorption between 17α-ethinyl estradiol and naphthalene/phenanthrene by sediments," *Environ Sci Technol* **2005**, *39*(13):4878-4885. http://www.cababstractsplus.org/google/abstract.asp?AcNo=20053132169.

Yu ZQ, Xiao BH, Huang WL, and Peng P. "Sorption of steroid estrogens to soils and sediments," *Environ Toxicol Chem* **2004**, *23*(3):531-539. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F03-192.

Yuan T. "Comment on "Estrogen receptor agonist fate during wastewater and biosolids treatment processes: A mass balance analysis"," *Environ Sci Technol* **2003**, *37*(20):4819-4820. http://pubs.acs.org/cgi-bin/article.cgi/esthag/2003/37/i20/html/es030436p.html.

Yuan T, Hu JY, Ong SL, and Ng WJ. "Simultaneous analysis of five selected phenolic xenoestrogens in water sample using solid phase extraction gas chromatography mass spectrometry," *J Chromatogr A* **2003**, *58*(9-10):643-648.

Yuasa H, Soga N, Kimura Y, and Watanabe J. "Effect of aging on the intestinal transport of hydrophilic drugs in the rat small intestine," *Biolog Pharm Bull* **1997**, *20*:1188-1192.

Zabczynski S, Buntner D, and Miksch K. "Report of new strategies for minimise PPs discharge," KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 52 pp. http://www.knappe-eu.org/fichiers/45-

D2%202_Report%20of%20new%20strategies%20for%20minimise%20PPs%20discharge.pdf.

Zabranska J, Jenicek P, and Dohanyos M. "The determination of anaerobic biodegradability of pharmaceutical wastes by methanogenic activity tests," *Wat Sci Technol* **1994**, *30*(3):103-107. http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=3712364.

Zaja R, Caminada D, Loncar J, Fent K, and Smital T. "Development and characterization of Pglycoprotein 1 (Pgp1, ABCB1)-mediated doxorubicin-resistant PLHC-1 hepatoma fish cell line," *Toxicology and Applied Pharmacology* **2008**, *227*(2):207-218. http://www.sciencedirect.com/science/article/B6WXH-4R4666H-1/1/8d610f80b4677a1a2fa758b135b1243a.

Zala SM, and Penn DJ. "Abnormal behaviours induced by chemical pollution: a review of the evidence and new challenges," *Animal Behaviour* **2004**, *68*(4):649-664. http://www.sciencedirect.com/science/article/B6W9W-4D04RV4-3/1/7310138ce48815700f0f7f0a2bf62f40 http://cat.inist.fr/?aModele=afficheN&cpsidt=16186450. Zan R, Kowalski C, and Burivianczuk A. "Elimination rates of 8-alpha-hydroxymutilin, a residue marker of tiamulin in pigs," *Medycyna Weterynaryjna* **2006**, *62*(4):448-451.

Zavitsanos P. "Using the LC-Atmospheric pressure ionization-ion trap for the analysis of steroids in water," in ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants Almagor UM, Ed., American Chemical Society, 2003, Chapter 13, 207-236. http://www.powells.com/biblio?isbn=9780841238251.

Zazo JA, Casas JA, Molina CB, Quintanilla A, and Rodriguez JJ. "Evolution of ecotoxicity upon Fenton's oxidation of phenol in water," *Environ Sci Technol* **2007**, *41*(20):7164-7170.

Zeisel SH. "Regulation of 'Nutraceuticals'," *Science* **1999**, 285(5435):1853-1855. http://www.sciencemag.org/cgi/content/full/285/5435/1853.

Zeleny R, Ulberth F, Gowik P, Polzer J, van Ginkel LA, and Emons H. "Developing new reference materials for effective veterinary drug-residue testing in food-producing animals," *TrAC Trends in Anal Chem* **2006**, *25*(9):927-936. http://www.sciencedirect.com/science/article/B6V5H-4KKWVHY-1/2/0a635e2e22f0a5d8c8403f25ba3f39ad.

Zeng DM, Li Y, and Lin QQ. "Pollution monitoring of three rivers passing through Fuzhou City, People's Republic of China," *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **1999**, 426:159-161.

Zeng F, Cui K, Xie Z, Liu M, Li Y, Lin Y, et al. "Occurrence of phthalate esters in water and sediment of urban lakes in a subtropical city, Guangzhou, South China," *Environ Internat* **2008**, *34*(3):372-380. http://www.sciencedirect.com/science/article/B6V7X-4PTF99V-1/1/f3612c000d2ee609d20e6edbd72ceaca.

Zeng X, Mai B, Sheng G, Luo X, Shao W, An T, et al. "Distribution of polycyclic musks in surface sediments from the Pearl River Delta and Macao coastal region, South China," *Environ Toxicol Chem* **2008**, *27*(1):18-23. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F07-106.1.

Zeng X, Sheng G, Gui H, Chen D, Shao W, and Fu J. "Preliminary study on the occurrence and distribution of polycyclic musks in a wastewater treatment plant in Guandong, China," *Chemosphere* **2007**, *69*(8):1305-1311. http://www.sciencedirect.com/science/article/B6V74-4P3M23D-7/2/6b145eae6e0cd5ded4a4ebbf6d5f1e2b.

Zeng X, Sheng G, Xiong Y, and Fu J. "Determination of polycyclic musks in sewage sludge from Guangdong, China using GC-EI-MS," *Chemosphere* **2005**, *60*(6):817-823. http://www.sciencedirect.com/science/article/B6V74-4G9Y4FW-5/2/3f8596f23f96730a88064fdb05b573ad.

Zeng XM, Martin GP, Tee S-K, and Marriott C. "The role of fine particle lactose on the dispersion and deaggregation of salbutamol sulphate in an air stream in vitro," *Internat J Pharmaceutics* **1998**, *176*(1):99-110. http://www.sciencedirect.com/science/article/B6T7W-3V8CFYK-C/2/8eb3974300a42eeb874eae8ddc6b58e8.

Zenker A, Schmutz H, and Fent K. " UV-absorbing compounds (UV filters) in environmental samples," *J Chromatogr A* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TG8-4SX3NXR-3/1/54ef094ba4a9c7217c2dfcd456c56a3c.

Zenoni G, Pedeferri M, Mazzotti M, and Morbidelli M. "On-line monitoring of enantiomer concentration in chiral simulated moving bed chromatography," *J Chromatogr A* **2000**, 888(1-2):73-83. http://www.sciencedirect.com/science/article/B6TG8-40PXM6V-8/2/b7ea363ac296556dd0f57cad6c19da31.

Zerulla M, Länge R, Steger-Hartmann T, Panter G, Hutchinson T, and Dietrich DR. "Morphological sex reversal upon short-term exposure to endocrine modulators in juvenile fathead minnow (Pimephales promelas)," *Toxicol Lett* **2002**, *131*(1-2):51-63. http://www.sciencedirect.com/science/article/B6TCR-45BRS4C-1/1/d4d6e07019c9f9ef32ae144c8f7c7c44.

Zha J, Wang Z, Wang N, and Ingersoll C. "Histological alternation and vitellogenin induction in adult rare minnow (Gobiocypris rarus) after exposure to ethynylestradiol and nonylphenol," *Chemosphere* **2007**, *66*(3):488-495. http://www.sciencedirect.com/science/article/B6V74-4KF1HH8-7/2/b9d1b59d1661b3e3473f07f59919b7b6.

Zhang C, and Bennett GN. "Biodegradation of xenobiotics by anaerobic bacteria," *Appl Microbiol Biotechnol* **2005**, *67*(5):600-618. http://dx.doi.org/10.1007/s00253-004-1864-3.

Zhang C, Zeng G, Yuan L, Yu J, Li J, Huang G, et al. "Aerobic degradation of bisphenol A by Achromobacter xylosoxidans strain B-16 isolated from compost leachate of municipal solid waste," *Chemosphere* **2007**, *68*(1):181-190. http://www.sciencedirect.com/science/article/B6V74-4N0XNBH-2/2/8af675d69e121c6a4555fc8ccc1a9ca4.

Zhang F, Bartels MJ, Brodeur JC, McClymont EL, and Woodburn KB. "Quantitation of 17 alphaethinylestradiol in aquatic samples using liquid-liquid phase extraction, dansyl derivatization, and liquid chromatography/positive electrospray tandem mass spectrometry," *Rapid Commun Mass Sepctrom* **2004**, *18*(22):2739-2742.

Zhang GF, Mortier KA, Storozhenko S, Van De Steene J, Van Der Straeten D, and Lambert WE. "Free and total para-aminobenzoic acid analysis in plants with high-performance liquid chromatography/tandem mass spectrometry," *Rapid Commun Mass Spectrom* **2005**, *19*(8):963-969.

Zhang H, and Huang C-H. "Adsorption and oxidation of fluoroquinolone antibacterial agents and structurally related amines with goethite," *Chemosphere* **2007**, *66*(8):1502-1512. http://www.sciencedirect.com/science/article/B6V74-4M81BYM-5/2/a446d2811cb6240b4a136a19bb8f3926.

Zhang H, and Huang CH. "Oxidative transformation of triclosan and chlorophene by manganese oxides," *Environ Sci Technol* **2003**, *37*(11):2421-2430. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2003/37/i11/abs/es026190q.html.

Zhang H, and Huang CH. "Reactivity and Transformation of Antibacterial N-Oxides in the Presence of Manganese Oxide," *Environ Sci Technol* **2005**, *39*(2):593-601. http://pubs3.acs.org/acs/journals/doilookup?in doi=10.1021/es048753z.

Zhang H, Yamada H, Kim S-E, Kim H-S, and Tsuno H. "Removal of endocrine-disrupting chemicals by ozonation in sewage treatment," *Wat Sci Technol* **2006**, *54*(10):123-132. http://cat.inist.fr/?aModele=afficheN&cpsidt=18305000.

Zhang HC, and Huang CH. "Oxidative transformation of fluoroquinolone antibacterial agents and structurally related amines by manganese oxide," *Environ Sci Technol* **2005**, *39*(12):4474-4483. http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/2005/39/i12/abs/es048166d.html.

Zhang J, Tomanek M, Dong H, Arnold RG, Ela WP, Quanrud DM, et al. "Fate of polybrominated diphenyl ethers, nonylphenol, and estrogenic activity during managed infiltration of wastewater effluent," *J Environ Eng-ASCE* **2008**, *134*(6):433-442. http://cedb.asce.org/cgi/WWWdisplay.cgi?0804635.

Zhang K, and Zuo YG. "Pitfalls and solution for simultaneous determination of estrone and 17 alphaethinylestradiol by gas chromatography-mass spectrometry after derivatization with N,Obis(trimethylsilyl)trifluoroacetamide," *Anal Chimica Acta* **2005**, *554*(1-2):190-196.

Zhang N, Rogers K, Gajda K, Kagel JR, and Rossi DT. "Integrated sample collection and handling for drug discovery bioanalysis," *J Pharmaceutical Biomed Anal* **2000**, *23*(2-3):551-560. http://www.sciencedirect.com/science/article/B6TGX-40WDY4D-16/2/34fa1d723dd14b96681f2ddc8e048d23.

Zhang Q, Crittenden JC, and Mihelcic JR. "Does Simplifying Transport and Exposure Yield Reliable Results? An Analysis of Four Risk Assessment Methods," *Environ Sci Technol* **2001**, *35*(6):1282-1288. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es001214j.

Zhang Q, Lian M, Liu L, and Cui H. "High-performance liquid chromatographic assay of parabens in wash-off cosmetic products and foods using chemiluminescence detection," *Anal Chimica Acta* **2005**, *537*(1-2):31-39. http://www.sciencedirect.com/science/article/B6TF4-4FDYXD5-2/2/eda19ee1e26795a15022df737f846d9c.

Zhang S, Mada S, Torch M, Goyal R, and Venkataramanan R. "Development and validation of a highperformance liquid chromatographic assay for the determination of fluconazole in human whole blood using sofid phase extraction," *Therapeutic Drug Monit* **2008**, *30*(3):314-319. http://www.drugmonitoring.com/pt/re/tdm/abstract.00007691-200806000-00008.htm;jsessionid=L9bQhHR9VTmbtWBQVW1sLMGsW0wMCTmL2c4Vfj1zvJhbLnGTrqJ1!53 6197444!181195628!8091!-1.

Zhang S, Zhang Q, Darisaw S, Ehie O, and Wang G. "Simultaneous quantification of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and pharmaceuticals and personal care products (PPCPs) in Mississippi river water, in New Orleans, Louisiana, USA," *Chemosphere* **2007**, *66*(6):1057-1069.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =16884762.

Zhang X, Chen PY, Wu F, Deng NS, Liu JT, and Fang T. "Degradation of 17 alpha-ethinylestradiol in aqueous solution by ozonation," *J Hazardous Mat* **2006**, *133*(1-3):291-298.

Zhang X, Martens D, Kramer PM, Kettrup AA, and Liang X. "On-line immunoaffinity column-liquid chromatography-tandem mass spectrometry method for trace analysis of diuron in wastewater treatment plant effluent sample," *J Chromatogr A* **2006**, *1133*(1-2):112-118. http://www.sciencedirect.com/science/article/B6TG8-4KR3JBS-8/2/8ca0b5d1bace51121a51e85c762e2b68.

Zhang X, Wu F, Wu X, Chen P, and Deng N. "Photodegradation of acetaminophen in TiO2 suspended solution," *J Haz Mat* **2008**, *157*(2-3):300-307. http://www.sciencedirect.com/science/article/B6TGF-4RH9503-G/1/8dcdd74bc87f941c8c8e66d57502dc0c.

Zhang X, Yao Y, Zeng X, Qian G, Guo Y, Wu M, et al. "Synthetic musks in the aquatic environment and personal care products in Shanghai, China," *Chemosphere* **2008**, *72*(10):1553-1558. http://www.sciencedirect.com/science/article/B6V74-4SN92D9-6/1/19c55357101371b082565e24468597bf.

Zhang Y, and Zhou JL. "Occurrence and removal of endocrine disrupting chemicals in wastewater," *Chemosphere* **2008**, *In Press, Corrected Proof* http://www.sciencedirect.com/science/article/B6V74-4T3CPY9-2/1/45db7dfa4a110be4427d52817f6eab8e.

Zhang YP, and Zhou JL. "Removal of estrone and 17 beta-estradiol from water by adsorption," *Wat Res* **2005**, *39*(16):3991-4003.

Zhang YP, Zhou JL, and Ning B. "Photodegradation of estrone and 17 beta-estradiol in water," *Wat Res* **2007**, *41*(1):19-26.

Zhang Z, Hibberd A, and Zhou JL. "Analysis of emerging contaminants in sewage effluent and river water: Comparison between spot and passive sampling," *Anal Chim Acta* **2008**, *607*(1):37-44. http://www.sciencedirect.com/science/article/B6TF4-4R5VYWT-2/1/ec517e8d1cc435690c18217e52249139.

Zhang Z, and Hu J. "Effects of p,p' -DDE exposure on gonadal development and gene expression in Japanese medaka (Oryzias latipes)," *J Environ Sci* **2008**, *20*(3):347-352. http://www.sciencedirect.com/science/article/B8CX4-4S2MFNJ-H/1/55727f25cea84175e9b9b89647d8e7c5.

Zhang ZL, Hibberd A, and Zhou JL. "Optimisation of derivatisation for the analysis of estrogenic compounds in water by solid-phase extraction gas chromatography-mass spectrometry," *Anal Chimica Acta* **2006**, *577*(1):52-61. http://www.sciencedirect.com/science/article/B6TF4-4K6W05S-6/2/e143a7a0725261bd20b11b8fb61fd216.

Zhang ZL, and Zhou JL. "Simultaneous determination of various pharmaceutical compounds in water by solid-phase extraction-liquid chromatography-tandem mass spectrometry," *J Chromatogr A* 2007, *1154*(1-2):205-213. http://www.sciencedirect.com/science/article/B6TG8-4NDDM1T-1/2/a2a129a87815de107f1cdc81d6542346.

Zhang ZQ, and Jiang YC. "Flow injection flame atomic absorption spectrometry for the indirect analysis of norfloxacin," *Atomic Spectroscopy* **2001**, 22:429-432.

Zhao B, Liu ZT, and Xu ZF. "Assessing the anti-estrogenic activity of sodium pentachlorophenol in primary cultures of juvenile goldfish (Carassius auratus) hepatocytes using vitellogenin as a biomarker," *J Environ Sci - China* **2006**, *18*(3):519-524.

Zhao D, Zhu C, Sun S, Yu H, Zhang L, Pan W, et al. "Toxicity of pharmaceutical wastewater on male reproductive system of Mus musculus," *Toxicol Industrial Health* **2007**, *23*(1):47-54. http://tih.sagepub.com/cgi/content/abstract/23/1/47.

Zhao J, Zhang G, Qin Y, and Zhao Y. "Aerobic biodegradation of alkylphenol ethoxylates," *Bioresource Technol* **2006**, *97*(18):2478-2480. http://www.sciencedirect.com/science/article/B6V24-4JKRTKG-1/2/404239fac71d4fcbc80dbb3d501b443f.

Zhao L, and Lin J-M. "Development of a micro-plate magnetic chemiluminescence enzyme immunoassay (MMCLEIA) for rapid- and high-throughput analysis of 17β-estradiol in water samples," *J Biotechnol* **2005**, *118*(2):177-186. http://www.sciencedirect.com/science/article/B6T3C-4GFCST5-1/2/1d7ecf8218c865b2160cf17443a46911.

Zhao L, Lin J-M, Li Z, and Ying X. "Development of a highly sensitive, second antibody format chemiluminescence enzyme immunoassay for the determination of 17[beta]-estradiol in wastewater," *Anal Chimica Acta* **2006**, *558*(1-2):290-295. http://www.sciencedirect.com/science/article/B6TF4-4HVF0VW-B/2/f41e34da9c0cbf3417a99d6338744b66.

Zhao MP, Yang XF, Li YZ, Zhang XX, and Chang WB. "Spectrophotometric determination of aniline in polluted surface water and wastewater - Improved reagents in test kit format International " *J Environ Anal Chem* **2001**, *81*:323-330.

Zhao RS, Yuan JP, Li HF, Wang X, Jiang T, and Lin JM. "Nonequilibrium hollow-fiber liquid-phase microextraction with in situ derivatization for the measurement of triclosan in aqueous samples by gas chromatography-mass spectrometry," *Anal Bioanal Chem* **2007**, *387*(8):2911-2915.

Zhao X, and Metcalfe CD. "Characterizing and Compensating for Matrix Effects Using Atmospheric Pressure Chemical Ionization Liquid Chromatography-Tandem Mass Spectrometry: Analysis of Neutral Pharmaceuticals in Municipal Wastewater," *Anal Chem* **2008**, *80*(6):2010-2017. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac701633m.

Zhao X, and Schwack W. "Photochemical behavior of musk ambrette," *Chemosphere* **1999**, *39*(1):11-21. http://www.sciencedirect.com/science/article/B6V74-3WVB96C-2/2/c5360a4ccc4f6134f0ca776e6c630442.

Zhao XM, and Schwack W. "Photodegradation of musk xylene," *Internat J Environ Anal Chem* **1999**, 74(1-4):179-189.

Zhao Y, Hu J, and Jin W. "Transformation of Oxidation Products and Reduction of Estrogenic Activity of 17β -Estradiol by a Heterogeneous Photo-Fenton Reaction," *Environ Sci Technol* **2008**, 42(14):5277-5284. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es703253q.

Zhao YY, Boyd J, Hrudey SE, and Li XF. "Characterization of new nitrosamines in drinking water using liquid chromatography tandem mass spectrometry," *Environ Sci Technol* **2006**, *40*(24):7636-7641.

Zheng W, Yates SR, and Bradford SA. "Analysis of Steroid Hormones in a Typical Dairy Waste Disposal System," *Environ Sci Technol* **2008**, *42*(2):530-535. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es071896b.

Zhitao L, Huayi Z, Bing S, and Rong Z. "Electron-irradiation-induced decomposition of sulfonamides," *Nuclear Instruments & Methods Physics Res Sec B - Beam Interactions with Mat Atoms* **2006**, *252*(2):285-289.

Zhongbo Z, and Hu J. "Selective removal of estrogenic compounds by molecular imprinted polymer (MIP)," *Wat Res* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6V73-4T0WJRG-1/1/bd571fb8bdb8decc7f43f677a04ac1e0.

Zhou JL, Liu R, Wilding A, and Hibberd A. "Sorption of selected endocrine disrupting chemicals to different aquatic colloids," *Environ Sci Technol* **2007**, *41*(1):206-213.

Zhou P, Su CY, Li BW, and Yi Q. "Treatment of high-strength pharmaceutical wastewater and removal of antibiotics in anaerobic and aerobic biological treatment processes," *J Environ Eng-ASCE* **2006**, *132*(1):129-136.

Zhou SN, Oakes KD, Servos MR, and Pawliszyn J. "Application of Solid-Phase Microextraction for In Vivo Laboratory and Field Sampling of Pharmaceuticals in Fish," *Environ Sci Technol* **2008**, *42*(16):6073-6079. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es8001162.

Zhu A, Zhu W, Wu Z, and Jing Y. "Recovery of clindamycin from fermentation wastewater with nanofiltration membranes," *Wat Res* **2003**, *37*(15):3718-3732. http://www.sciencedirect.com/science/article/B6V73-48VTBVM-1/2/75226241d40a1670740350351fde99c2.

Zhu J, Snow DD, Cassada DA, Monson SJ, and Spalding RF. "Analysis of oxytetracycline, tetracycline, and chlortetracycline in water using solid-phase extraction and liquid chromatography-tandem mass spectrometry," *J Chromatogr A* **2001**, *928*(2):177-186. http://www.sciencedirect.com/science/article/B6TG8-43S67WW-P/2/2ba7073bf13a51dcdf9c2e7054ac902d.

Zhu Y, and Balke K-D. "Groundwater protection: What can we learn from Germany?," *J Zhejiang Univ - Sci B* **2008**, *9*(3):227-231. http://dx.doi.org/10.1631/jzus.B0710639.

Zhu Y, Chiang H, Wulster-Radcliffe M, Hilt R, Wong P, Kissinger CB, et al. "Liquid chromatography/tandem mass spectrometry for the determination of carbamazepine and its main metabolite in rat plasma utilizing an automated blood sampling system," *J Pharmaceutical Biomed Anal* **2005**, *38*(1):119-125. http://www.sciencedirect.com/science/article/B6TGX-4F83PP8-1/2/0e90cf78b496fb59105ced78a8bbaa1c.

Zielezny Y, Groeneweg J, Vereecken H, and Tappe W. "Impact of sulfadiazine and chlorotetracycline on soil bacterial community structure and respiratory activity," *Soil Biol Biochem* **2006**, *38*(8):2372-2380. http://www.sciencedirect.com/science/article/B6TC7-4JMKP5C-8/2/a87de4c47ce2478e9aae5e28fe562489.

Zilles J, Shimada T, Jindal A, Robert M, and Raskin L. "Presence of macrolide-lincosamidestreptogramin B and tetracycline antimicrobials in swine waste treatment processes and amended soil," *Wat Environ Res* **2005**, *77*(1):57-62.

Zillioux EJ, I.C. J, Kiparissis Y, C.D. M, J.V. W, Ward SG, et al. "The sheepshead minnow as an in vivo model for endocrine disruption in marine teleosts: A partial life-cycle test with 17 alpha-ethynylestradiol," *Environ Toxicol Chem* **2001**, *20*(9):1968-1978.

Zimmerman MJ. "Occurrence of Organic Wastewater Contaminants, Pharmaceuticals, and Personal Care Products in Selected Water Supplies, Cape Cod, Massachusetts," Barnstable County Department of Health and Environmnet, June, 2004, 20 pp. http://pubs.usgs.gov/of/2005/1206/pdf/ofr2005 1206.pdf.

Zorita S, Barri T, and Mathiasson L. "A novel hollow-fibre microporous membrane liquid-liquid extraction for determination of free 4-isobutylacetophenone concentration at ultra trace level in environmental aqueous samples," *J Chromatogr A* **2007**, *1157*(1-2):30-37. http://www.sciencedirect.com/science/article/B6TG8-4NRK4JG-3/2/45041557dbbb258ce0ed37dfdd7127f7.

Zorita S, Boyd B, Svensson C, Mathiasson L, and Bergström S. "Selective determination of acidic pharmaceuticals in wastewater using molecularly imprinted solid-phase extraction," *Anal Chim Acta* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TF4-4T5TPNS-1/2/3f6a4237aeb35061a4e06e717eb86aed.

Zorita S, Boyd B, Svensson C, Mathiasson L, and Bergström S. "Selective determination of acidic pharmaceuticals in wastewater using molecularly imprinted solid-phase extraction," *Anal Chim Acta* **2008**, *In Press, Accepted Manuscript* http://www.sciencedirect.com/science/article/B6TF4-4T5TPNS-1/2/3f6a4237aeb35061a4e06e717eb86aed.

Zorita S, Hallgren P, and Mathiasson L. "Steroid hormone determination in water using an environmentally friendly membrane based extraction technique," *J Chromatogr A* 2008, *1192*(1):1-8. http://www.ncbi.nlm.nih.gov/pubmed/18394632 http://www.sciencedirect.com/science/article/B6TG8-4S2MHXG-3/1/168b9844b2269b998c4ed113e1561f86.

Zorita S, Martensson L, and Mathiasson L. "Hollow-fibre supported liquid membrane extraction for determination of fluoxetine and norfluoxetine concentration at ultra trace level in sewage samples," *J Separation Sci* **2007**, *30*(15):2513-2521. http://www3.interscience.wiley.com/journal/116311122/abstract.

Zounkova R, Odraska P, Dolezalova L, Hilscherova K, Marsalek B, and Blaha L. "Ecotoxicity and genotoxicity assessment of cytostatic pharmaceuticals," *Environ Toxicol Chem* **2007**, *26*(10):2208-2214. http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F07-137.

Zuccato E, Calamari D, Natangelo M, and Fanelli R. "Presence of therapeutic drugs in the environment," *The Lancet* **2000**, *355*(9217):1789-1790. http://www.sciencedirect.com/science/article/B6T1B-40GY87W-K/2/62695cb2ee90a268e91eb3a2d1a4ad11.

Zuccato E, Castiglioni S, Bagnati R, Chiabrando C, Grassi P, and Fanelli R. "Illicit drugs, a novel group of environmental contaminants," *Wat Res* **2008**, *42*(4-5):961-968. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids =17935751.

Zuccato E, Castiglioni S, and Fanelli R. "Identification of the pharmaceuticals for human use contaminating the Italian aquatic environment," *J Hazardous Mat* **2005**, *122*(3):205-209. http://www.sciencedirect.com/science/article/B6TGF-4FRJKYR-1/2/76ae81c7224b3620f325eaa19d299653.

Zuccato E, Castiglioni S, Fanelli R, Reitano G, Bagnati R, Chiabrando C, et al. "Pharmaceuticals in the environment in Italy: Causes, occurrence, effects and control," *Environ Sci Pollut Res* **2006**, *13*:15-21.

Zuccato E, Chiabrando C, Castiglioni S, Bagnati R, and Fanelli R. "Estimating Community Drug Abuse by Wastewater Analysis," *Environ Health Perspect* **2008**, *116*(8):1027-1032. http://www.ehponline.org/members/2008/11022/11022.pdf.

Zuccato E, Chiabrando C, Castiglioni S, Calamari D, Bagnati R, Schiarea S, et al. "Cocaine in surface waters: a new evidence-based tool to monitor community drug abuse," *Environ Health* **2005**, *4*:14. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cm=Retrieve&db=PubMed&dopt=Citation&list_uids= 16083497.

Zuccato E, Chiabrando C, Castiglioni S, Calamari D, Bagnati R, Schiarea S, et al. "Cocaina nelle acque di superficie: Un nuovo strumento evidence-based per monitorare l'abuso comunitario di sostanze," *Cocaina*?, *1.6*:103-112. http://www.dronet.org/pdf/1.6%20Cocaina.pdf.

Zuehlke S. "Verhalten von phenazonderivaten, carbamazepin und estrogenen steroiden wahrend verschiedener verfahren der wasseraufbereitung," Doctoral Dissertation, Universitat Berlin, Von der Fakultat III - Prozesswissenschaften der Technischen, Berlin, Germany, 2004. 295 pp. http://deposit.ddb.de/cgi-

bin/dokserv?idn=972804862&dok_var=d1&dok_ext=pdf&filename=972804862.pdf.

Zuehlke S, Duennbier U, and Heberer T. "Determination of Polar Drug Residues in Sewage and Surface Water Applying Liquid Chromatography-Tandem Mass Spectrometry," *Anal Chem* **2004**, *76*(22):6548-6554. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/ac049324m.

Zuehlke S, Duennbier U, and Heberer T. "Determination of estrogenic steroids in surface water and wastewater by liquid chromatography-electrospray tandem mass spectrometry " *J Separation Sci* 2005, 28(1):52-58.

Zuehlke S, Duennbier U, and Heberer T. "Investigation of the behavior and metabolism of pharmaceutical residues during purification of contaminated ground water used for drinking water supply," *Chemosphere* **2007**, *69*(11):1673-1680. http://www.sciencedirect.com/science/article/B6V74-4P8R7DD-3/2/531dc0f1ed248e3e9ed41b16bdc55372.

Zuehlke S, Duennbier U, Heberer T, and Fritz B. "Analysis of endocrine disrupting steroids: Investigation of their release into the environment and their behavior during bank filtration," *Ground Wat Monit Remediation* **2004**, *24*(2):78-85.

Zuehlke S, Duennbier U, Lesjean B, Gnirss R, and Buisson H. "Long-term comparison of trace organics removal performances between conventional and membrane activated sludge processes," *Wat Environ Res* **2006**, *78*(13):2480-2486.

Zuhlke S, Dunnbier U, and Heberer T. "Detection and identification of phenazone-type drugs and their microbial metabolites in ground and drinking water applying solid-phase extraction and gas chromatography with mass spectrometric detection," *J Chromatogr A* **2004**, *1050*(2):201-209. http://www.sciencedirect.com/science/article/B6TG8-4D99SR2-1/2/d749d597da834f24f3f60ccea8495155.

Zukowska B, Breivik K, and Wania F. "Evaluating the environmental fate of pharmaceuticals using a level III model based on poly-parameter linear free energy relationships," *Sci Total Environ* **2006**, *359*(1-3):177-187. http://www.sciencedirect.com/science/article/B6V78-4GKWHTJ-1/1/094adbe7987213ea3a3820d72e32e06f.

Zuo Y, and Zhang K. "Suitability of N,O-bis(trimethylsilyl)trifluoroacetamide as derivatization reagent for the determination of the estrogens estrone and 17 [alpha]-ethinylestradiol by gas chromatography-mass spectrometry," *J Chromatogr A* **2005**, *1095*(1-2):201-202. http://www.sciencedirect.com/science/article/B6TG8-4H9992S-1/2/4763ecf156c05a98c3684cf818600495.

Zuo Y, Zhang K, and Lin Y. "Microwave-accelerated derivatization for the simultaneous gas chromatographic-mass spectrometric analysis of natural and synthetic estrogenic steroids," *J Chromatogr A* 2007, *1148*(2):211-218. http://www.sciencedirect.com/science/article/B6TG8-4N8M88C-G/2/2e9a5bbe75d5aa18f3dcaa4d204e6d4a.

Zuo YG, Zhang K, and Deng YW. "Occurrence and photochemical degradation of 17αethinylestradiol in Acushnet River Estuary," *Chemosphere* **2006**, *63*(9):1583-1590. http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V74-4HMFJ5C-B&_user=6729288&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000001678&_versio n=1&_urlVersion=0&_userid=6729288&md5=3386cba9077ca4ddac97e4567b8d60d7.

Zurhelle G, Müller-Seitz E, and Petz M. "Automated residue analysis of tetracyclines and their metabolites in whole egg, egg white, egg yolk and hen's plasma utilizing a modified ASTED system," *J Chromatogr B: Biomed Sci Applications* **2000**, *739*(1):191-203. http://www.sciencedirect.com/science/article/B6TG9-3YNXY1J-N/1/44217f3851156f43dcf8de2e9b9cd21d.

Zurhelle G, Petz M, Mueller-Seitz E, and Siewert E. "Metabolites of oxytetracycline, tetracycline, and chlortetracycline and their distribution in egg white, egg yolk, and hen plasma," *J Agri Food Chem* **2000**, *48*(12):6392-6396. http://cat.inist.fr/?aModele=afficheN&cpsidt=880995.

Zurita JL, Jos A, Peso Ad, Salguero M, Lopez-Artiguez M, and Repetto G. "Ecotoxicological evaluation of the antimalarial drug chloroquine," *Aqua Toxicol* **2005**, *75*(2):97-107.

http://www.sciencedirect.com/science/article/B6T4G-4H2FXPG-1/2/da973b9eb9707eb212e6c1f83b389fb3.

Zurita JL, Repetto G, Jos A, Salguero M, Lopez-Artiguez M, and Camean AM. "Toxicological effects of the lipid regulator gemfibrozil in four aquatic systems," *Aqua Toxicol* **2007**, *81*(1):106-115. http://www.sciencedirect.com/science/article/B6T4G-4MDGP7N-1/2/cb1998a8a63b052ee6e525f9ffa3ec71.

Zweygarth M, and Summers RS. "A national database for essential drugs in South Africa," *Pharmacy World Sci* **2000**, 22:116-117.

Zwiener C. "Occurrence and analysis of pharmaceuticals and their transformation products in drinking water treatment," *Anal Bioanal Chem* **2007**, *387*(4):1159-1162. http://www.springerlink.com/content/b5335158046p545q/.

Zwiener C, and Frimmel FH. "Oxidative treatment of pharmaceuticals in water," *Wat Res* **2000**, *34*(6):1881-1885. http://www.sciencedirect.com/science/article/B6V73-3YMF6KT-F/2/a490354026435af9c1fbd5e0097fdf92.

Zwiener C, and Frimmel FH. "Short-term tests with a pilot sewage plant and biofilm reactors for the biological degradation of the pharmaceutical compounds clofibric acid, ibuprofen, and diclofenac," *Sci Total Environ* **2003**, *309*(1-3):201-211. http://www.sciencedirect.com/science/article/B6V78-4806722-F/2/b28ba7a8622c57c2216f1d53d0750bba.

Zwiener C, and Frimmel FH. "LC-MS analysis in the aquatic environment and in water treatment technology - a critical review. Part II: Applications for emerging contaminants and related pollutants, microorganisms and humic acids," *Anal Bioanal Chem* **2004**, *378*(4):862-874.

Zwiener C, Glauner T, and Frimmel FH. "Biodegradation of pharmaceutical residues investigated by SPE-GC/ITD-MS and on-line derivatization," *HRC-J High Res Chromatogr* **2000**, *23*(7-8):474-478. http://www3.interscience.wiley.com/journal/72514566/abstract.

Zwiener C, Richardson SD, De Marini DM, Grummet T, and Frimmel FH. "Drowning in Disinfection Byproducts? Assessing Swimming Pool Water," *Environ Sci Technol* **2007**, *41*(2):363-372. http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/es702871c http://cat.inist.fr/?aModele=afficheN&cpsidt=18453344.

Zwiener C, Seeger S, Glauner T, and Frimmel FH. "Metabolites from the biodegradation of pharmaceutical residues of ibuprofen in biofilm reactors and batch experiments," *Anal Bioanal Chem* **2002**, *372*(4):569-575.