## Bibliography Human Health Research Program (1999-2006)

## Long-Term Goal 1 Use of Mechanistic Information in Risk Assessment

Abernathy, CO, Thomas, DJ and Calderon, RL. Health effects and risk assessment of arsenic. **Journal of Nutrition** 133:1536-1538, 2003.

Abbott, BD, Best, DS and Narotsky, MG. Teratogenic effects of retinoic acid are modulated in mice lacking expression of epidermal growth factor and transforming growth factor-alpha. **Birth Defects Research A Clinical and Molecular Teratology** 73: 204-217, 2005.

Abbott, BD, Buckalew, AR, Diliberto, JJ, Wood, CR, Held, G, Pitt, JA and Schmid, JE AhR, ARNT, and Cyp1A1 mRNA quantitation in cultured humanembryonic palates exposed to TCDD and comparison with mouse palate in vivo and in culture. **Toxicological Sciences** 47: 62-75, 1999.

Abbott, BD Schmid, JE, Pitt, JA, Buckalew, AR, Wood, CR, Held, GA and Diliberto, JJ. Adverse reproductive outcomes in the transgenic Ah receptor-deficient mouse. **Toxicology and Applied Pharmacology** 155:62-70, 1999.

Abbott BD, Buckalew AR, DeVito MJ, Ross D, Bryant PL and Schmid JE. EGF and TGF-alpha expression influence the developmental toxicity of TCDD: dose response and AhR phenotype in EGF, TGF-alpha, and EGF + TGF-alpha knockout mice. **Toxicological Sciences** 71:84-95, 2003.

Abbott, BD, Buckalew, AR and Leffler, KE. Effects of epidermal factor (EGF), transforming growth factor-alpha (TGF alpha), and 2,3,7,8-tetrachlorodibenzo-p-dioxin on fusion of embryonic palates in serum-free organ culture using wild-type, EGF knockout, and TGFalpha knockout mouse strains. **Birth Defects Research A Clinical and Molecular Teratology** 73: 447-454, 2005.

Adair, BM, Waters, SB, Devesa, V, Drobna, Z, Styblo, M and Thomas, DJ. Commonalities in metabolism of arsenicals. Environmental Chemistry 2: 161-166, 2005.

Adair, BM, Hudgens, E, Calderon, RL and Thomas, DJ. Total arsenic concentrations in toenails quantified by two techniques provide a useful biomarker of chronic arsenic exposure in drinking water. **Environmental Research**, in press.

Ahmad, S, Kitchin, KT and Cullen WR. Arsenic species that cause release of iron from ferritin and generation of activated oxygen. **Archives of Biochemistry and Biophysics** 382: 195-202, 2000.

Ahmad, S, Kitchin, KT and Cullen, WR. Plasmid DNA damage caused by methylated arsenicals, ascorbic acid and human liver ferritin. **Toxicology Letters** 133: 47-57, 2002.

Aleman, M, Riehl, J, Aldridge, BM, Lecouteur, RA, Stott, JL, and Pessah, IN, Association of a mutation in the ryanodine receptor 1 gene with equine malignant hyperthermia. **Muscle Nerve** 30:356 – 365, 2004 (NCER).

Alfaro MF, Putney L, Tarkington BK, Hatch GE, Hyde DM, and Schelegle ES. Effect of rapid shallow breathing on the distribution of 18O-labeled ozone reaction product in the respiratory tract of the rat. **Inhalation Toxicology** 16:77-85, 2004.

Allen, J.W., Collins, B, Afshari, A and Fuscoe, J. Dibenzo[a,l]pyrene induction of Erythrocyte micronuclei in A/J and p53-deficient mice. **Polycyclic Aromatic Compounds** 16:51-60, 1999.

Allen, J.W., Collins, B, Lori, A, Afshari, A, George, M, DeAngelo, A and Fuscoe, J.
Erythrocyte and spermatid micronucleus analyses in mice chronically exposed to potassium bromate in drinking water. Environmental and Molecular Mutagenesis 36:250-253, 2000.

Allio, T, Donner, E and Preston, RJ. A comparison of the roles of p53 mutation and AraC inhibition in the enhancement of Bleomycin-induced chromatid aberrations in mouse and human cells. **Mutation Research** 447:227-237, 2000.

Allio, T and Preston, RJ. Increased sensitivity to chromatid aberration induction by Bleomycin and Neocarzinostatin results from alterations in a DNA damage response pathway. **Mutation Research** 453:5-15, 2000.

Altmann, L., Mundy, W, Ward, T, Fastbend, A and Lilienthal, H. Developmental exposure of rats to a reconstituted pcb mixture or aroclor 1254: Effects on long-term potentiation and [3h]mk-801 binding in occipital cortex and hippocampus. **Toxicological Sciences** 61:321-330, 2001.

Anand, S, Bruckner, JV, Haines, W., Muralidhara, S, Fisher, JW and Padilla, S. Characterization of deltametrin metabolism in plasma and liver microsomes from adult male rats. **Toxicological Sciences**, in press, 2006.

Andersen, ME and Barton, HA. Biological regulation of receptor-hormone complex concentrations in relation to dose response assessments for endocrine active compounds. **Toxicological Sciences** 48: 38-50, 1999.

Andersen, ME and Jarabek, A. Nasal tissue dosimetry — Issues and approaches for "Category 1" gases: A report on a meeting held in Research Triangle Park, NC, 11–12 February, 1998. **Inhalation Toxicology** 13:415–436, 2001.

Andrewes, P, Kitchin, KT and Wallace, K. Dimethylarxine and trimethylarsine and potent genotoxins in vitro. **Chemical Research in Toxicology** 16: 994-1003, 2003.

Andrewes, P, Kitchin, KT and Wallace, K. Plasmid DNA damage caused by stibine and

trimethylstibine. Toxicology and Applied Pharmacology 194: 41-48, 2004.

Andrewes, P, DeMarini, D, Funasaka, K, Wallace KW, Vivan, WM, Lai, C, Cullen, WR and Kitchin, KT. Do arsenosugars pose a risk to human health: the comparative toxicities of a trivalent and pentavalent arsenosugar. **Environmental Science and Technology** 38: 4140-4148, 2004.

Arbour, NC, Lorenz, E, Schutte, BC, Zabner, J, Kline, JN, Jones, M, Frees, K, Watt, JL and Schwartz, DA. TLR4 mutation is associated with endotoxin hyporesponsiveness in humans. **Nature Genetics** 25:187-191, 2000 (NCER).

Arbuckle, TE, Hrudey, SE, Krasner, SW, Nuckols, JR, Richardson, SD, Singer, P, Mendola, P, Dodds, L, Weisel, C, Ashley, D, Froese, KL, Pegram, R, Schultz, IR, Reif, J, Bachand, AM, Benoit, FM, Lynberg, M, Poole, C and Waller, K. Assessing exposure in epidemiologic studies to disinfection byproducts in drinking water: Report from an international workshop. **Environmental Health Perspectives** 110 (Suppl 1): 53-60, 2002.

Aubrecht, J, Secretan, MB, Bishop, AJR and Schiestl, RH. Involvement of p53 in x-ray induced intrachromosomal recombination in mice. **Carcinogenesis** 20:2229-2236, 1999 (NCER).

Axelrad, DA, Baetcke, K, Dockins, C, Griffiths, CW, Hill, RN, Murphy, PA, Owens, N, Simon and Teuschler, LK. Risk assessment for benefits analysis: framework for analysis of a thyroiddisrupting chemical. **Journal of Toxicology and Environmental Health A** 68: 837-855, 2005.

Badr, MZ and Birnbaum, LS. Enhanced potential for oxidataive stress in livers of sensescent rats by the peroxisome proliferators-activated receptor alpha agonist perfluorooactanoic acid. **Mechanisms of Ageing and Development** 125: 69-75, 2004.

Baird, JS S, Slob, W and Jarabek, AM. Probabilistic noncancer risk estimates. **Communications in Toxicology** 7: 541–574, 2001.

Baker, VA, Harries, HM, Waring, JF, Duggan, CM, Ni, HA, Jolly, RA, Yoon, LW, DeSourza, AT, Schmid, JE, Brown, RH, Ulrich, RG and Rockett, JC. Clofibrate-induced gene expression in rat liver: a cross-laboratory analysis using membrane cDNA arrays. **Environmental Health Perspectives** 112: 428-438, 2004.

Balchak, SK, Hedge, JM, Murr, AS, Mole, ML and Goldman, JM. Influence of the drinking water disinfection by-product dibromoacetic acid on rat estrous cyclicity and ovarian follicular steroid release in vitro. **Reproductive Toxicology** 14:533-539, 2000.

Bale, AS, Meacham, CA, Benignus, VA, Bushnell, PJ and Shafer, TJ. Volatile organic compounds inhibit human and rat neuronal nicotinic acetylcholine receptors expressed in Xenopus oocytes. **Toxicology and Applied Pharmacology** 205: 77-88, 2005.

Ballatori, N, Boyer, JL and Rockett, JC. Exploiting genome data to understand the function, regulation and evolutionary origins of toxicologically relevant genes. **Environmental Health Perspectives Toxicogenomics** 111: 61-65, 2003.

Balu, N, Padgett, W, Lambert, G, Swank, A, Richard, A and Nesnow, S. Identification and characterization of novel stable deoxyguanosine and doxyadenosine addcts of benzo[a]pyrene-7,8-quinone from reactions at physiological pH. Chemical Research in Toxicology 17:827-838, 2003.

Banasiewicz, M, Nelson, G, Swank, A, Grubor, N, Ross, J, Nesnow, S, Köfeler, H, Small, G and Jankowiak, R. Identification and quantitation of benzo[*a*]pyrene derived DNA adducts formed at low adduction level in lung tissue of male A/J strain mice. **Analytical Biochemistry** 334:390-400, 2004.

Bao W, Schmid, J, Goetz, A, Ren, H and Dix, D. A database for tracking toxicogenomic samples and procedures. **Reproductive Toxicology** 19: 411-419, 2005.

Barber, D, Correll, L and Ehrich, M. Comparative effectiveness of organophosphorus protoxicant activating systems in neuroblastoma cells and brain homogenates. **Journal of Toxicology and Environmental Health** 57:63-74, 1999 (NCER).

Barber, D, Correll, L and Ehrich, M. Comparison of two in vitro activation systems for protoxicant organophosphorous esterase inhibitors. **Toxicological Sciences** 47:16-22, 1999 (NCER).

Barnes, J.A., Dix, D, Collins, B, Luft B and Allen, J. Expression of inducible Hsp7 enhances the proliferation of MCF-70 breast cancer cells and protects against the cytotoxic effects of hyperthermia. **Cell Stress and Chaperones** 6:316-325, 2001.

Barnes, JA, Collins, B, Dix D and Allen, JW. Effects of heat shock protein 70 (Hsp70) on arsenite induced genotoxicity. **Environmental and Molecular Mutagenesis** 40:236-242, 2002

Barton, HA. Endocrine active substances and dose-response for individuals and populations. **Pure and Applied Chemistry** 75, 2159-2166, 2003.

Barton, HA. Computational pharmacokinetics during developmental windows of susceptibility. **Journal of Toxicology and Environmental Health A** 68:889-900, 2005.

Barton, HA and Clewell, HJ, III. Evaluating noncancer effects of trichloroethylene: Dosimetry, mode of action and risk assessment. **Environmental Health Perspectives** 108(Suppl 2):335-342, 2000.

Barton, HA, Bull, R, Schultz, I and Andersen, ME. Dichloroacetate (DCA) dosimetry: Interpreting DCA-induced liver cancer dose response and the potential for DCA to contribute to trichloroethylene-induced liver cancer. **Toxicology Letters** 106: 9-21, 1999. Barton, HA, Deisinger, PJ, English, JC, Gearhart, JM, Faber, WD, Tyler, TR, Banton, MI, Teeguarden, J and Andersen, ME. Risk assessment-family approach for estimating reference concentrations/doses for series of related organic chemicals. **Toxicological Sciences** 54:251-261, 2000.

Basha, MR, Braddy, NS, Zawia, NH and Kodavanti, PR. Ontogenetic alterations in prototypical transcription factors in the rat cerebellum and hippocampus following perinatal exposure to a commercial PCB mixture. **NeuroToxicology** 27: 118-124, 2006.

Becker S, Soukup J, and Gallagher, J. Differential particulate air pollution induced oxidant stress in human granulocytes, monocytes and alveolar macrophages. **In Vitro Toxicology** 16:209-218, 2002.

Becker, S, Dailey, LA, Soukup, JM, Granbow, SC, Devlin, RB and Huang, YC. Seasonal variations in air pollution particle-induced inflammatory mediator release and oxidative stress. **Environmental Health Perspectives** 113: 1032-1038, 2005.

Becker, S, Dailey, L, Soukup, JM, Silbajoris, R and Devlin, R. TLR-2 is involved in airway epithelial cell response to air pollution particles. **Toxicology and Applied Pharmacology** 203: 45-52, 2005.

Becker, S, Mundandhara, S, Devlin, RB and Madden, M. Regulation of cytokine production in human alveolar macrophages and airway epithelial cells in response to ambient air pollution particles: Further mechanistic studies. **Toxicology and Applied Pharmacology** 207: 269-275, 2005.

Bemis, JC and Seegal, RF. Polychlorinated biphenyls and methylmercury act synergistically to reduce rat brain dopamine content in vitro. **Environmental Health Perspectives** 107:879-885, 1999 (NCER).

Bemis, JC and Seegal, RF. Polychlorinated biphenyls and methylmercury alter intracellular calcium concentrations in rat cerebellar granule cells. **NeuroToxicology** 21:1123-1134, 2000 (NCER).

Bemis ,JC and Seegal, RF. PCB-induced inhibition of the vesicular monoamine transporter predicts reductions in synaptosomal dopamine content., **Toxicological Science** 80: 288-295, 2004 (NCER).

Bennett, WD, Zeman, KL and Jarabek, AM. Nasal contribution to breathing with exercise: Effect of race and gender. Journal of Applied Physiology 95: 497-503, 2003.

Betensky, RA, Lindsey, JC, Ryan, LM and Wand MP. Local EM estimation of the hazard function for interval censored data. **Biometrics** 55:238-245, 1999.

Bielmeier, SR, Best, DS and Nartosky, MG. Serum hormone characterization and exogeneous hormone rescue of bromodichoromethane-induced pregnancy loss in the F344 rat. **Toxicological Sciences** 77:101-108, 2004.

Binhi, VN and Blackman, CF. Analysis of the structure of magnetic fields that induced inhibition of stimulated neurite outgrowth. **Bioelectromagnetics** 26:684-689, 2005.

Birak, PS, Yurk, J, Adeshina, F, Pollard, K, Lorber, L, Kroner, S and Choudhury, H. Travis and Arms revisited: A second look at a widely used bioconcentration algorithm. **Toxicology and Industrial Health** 17: 163-175, 2001.

Birnbaum, L and Tuomisto, J. Non-carcinogenic effects of TCDD in animals. Food Additives and Contaminants 17:275-288, 2000.

Birnbaum, LS and Cummings, AM. Dioxins and endometriosis: a plausible hypothesis. **Environmental Health Perspectives** 110:15-21, 2002.

Birnbaum, LS and Fenton, SE. Cancer and developmental exposure to endocrine disruptors. **Environmental Health Perspectives** 111:389-394, 2003.

Birnbaum, LS and Staskal, DF. Brominated flame retardants: cause for concern? **Environmental Health Perspectives** 112: 9-17, 2004.

Birnbaum, LB, Staskal, D and Diliberto, JJ. Health effects of polybrominated dibenzo-*p*-dioxins (PBDDs) and dibenzofurans (PBDFs). **Environment International** 29:855-860, 2003.

Bishop, AJR, Kosaras, B, Sidman, RL and Schiestl, RH. Benzo(a)pyrene and x-rays induce reversions of the pink-eyed unstable mutation in the retinal pigment epithelium of mice. **Mutation Research** 457:31-40, 2000 (NCER).

Bishop, AJR, Kosaras, B, Carls, N, Sidman, RL and Schiestl, RH. Susceptibility of proliferating cells to benzo(a)pyrene induced homologous recombination in mice. **Carcinogenesis** 22:641-649, 2001 (NCER).

Block, ML, Wu, Z, Pei, G, Li, T, Wang, L, Qin, B, Wilson, J, Yang, JS, Hong, J and Veronesi, B. Diesel exhaust particles cause microglia-mediated dopaminergic toxicity in culture. **FASEB Journal** 18:1618-20, 2004.

Block, ML< Wu, Z, Pei, Z, Li, G, Wang, T, Qin, L, Wilson, B, Yang, J, Hong, J and Veronesi, B. Nanometer size diesel exhaust particles are selectively toxic to dopaminergic neurons: The role of microglia, phagocytosis and NADPH oxidase. **FASEB Journal** 13: 1618-01629, 2004.

Bogdanffy, MS, Sarangapani, R, Plowchalk, DR, Jarabek, AM and Andersen, ME. A biologically-based risk assessment for vinyl-acetate induced cancer and noncancer toxicity. **Toxicological Sciences** 51:19–35, 1999.

Bogdanffy MS, Daston G, Faustman EM, Kimmel CA, Kimmel GL, Seed J and Vu V. Harmonization of cancer and noncancer risk assessment: proceedings of a consensus-building workshop. Toxicological Sciences 61:18-31, 2001.

Bordelon ,NR, Donnelly, KC, King ,LC, Wolf, DC, Reeves,W and George SE. Bioavailability of the genotoxic components in coal tar contaminated soils in Fischer 344 rats. **Toxicological Sciences** 56:37-48, 2000.

Bostwick, DG, Burke, HB, Djakiew, D, Euling, S, Ho, SM, Landolph, J, Morrison, H, Sonawane, B, Shifflett, T, Waters, DJ and Timms, B. Human prostate cancer risk factors. **Cancer** 19:101 (S10) 2371-2490, 2004.

Brandt-Rauf, PW, Luo, JC, Cheng, TJ, Du, CL, Wang, JD, Rosal, R, Do, T and Marion, MJ. Molecular biomarkers and epidemiologic risk assessment. **Human and Ecological Risk Assessment** 8:1295-1301, 2000 (NCER).

Brenz Verca, MS, Bahi, A, Boyer, F, Wagner, GC and Dreyer, JL. Distribution of alpha- and gamma-synucleins in the adult rat brain and their modification by high-dose cocaine treatment. **European Journal of Neuroscience** 18:1923-1938, 2003 (NCER).

Brown DJ, Overmieire IV, Goeyens, L, Denison MS, DeVito, MJ and Clark, GC. Analysis of Ah receptor pathway activation by brominated flame retardants. **Chemosphere** 55:1509-1511, 2004.

Brown, JW, Whitehurst, ME, Gordon, CJ and Carroll, RG. The pre-optic anterior hypothalamus (POAH) partially mediates the hypothermic response to hemorrhage in rats. **Brain Research** 104: 1-10, 2005.

Brown, JW, Whitehurst, ME, Gordon, CJ and Carroll, RG. Thermoregulatory set point decreases after hemorrphate in rats. **Shock** 23: 239-242, 2005.

Buchanan, MF, Carter, WC, Cowgill, LM, Hurley, DF, Lewis, SJ, MacLeod, JN, Melton, TR, Moore, JN, Pessah, I, Roberson, M, Robertson, TP, Smith, ML and Vandenplas, ML. Using 3D animations to teach intracellular signal transduction mechanisms: taking the arrows out of cells. **Journal of Veterinary Medical Education** 32: 72-78, 2005.

Buck, GM, Lynch, CD, Stanford, JB, Sweeney, AM, Schieve, LA, Rockett, JC, Selevan, SG and Schrader, SM. Prospective pregnancy study designs for assessing reproductive and developmental toxicants. **Environmental Health Perspectives** 112: 79-86, 2004.

Burgin, DE, Diliberto, JJ, Derr-Yellin, EC, Kannan, N, Kodavanti, PRS, and Birnbaum, LS. Differential effects of two lots of Aroclor 1254: hepatic enzyme induction, thyroid hormones, and oxidative stress. **Environmental Health Perspectives** 109:1163-1168, 2001.

Bushnell, PJ, Moser, VC, MacPhail, RC, Oshiro, WM, Derr-Yellin, EC, Phillips, PM and Kodavanti, PRS. Neurobehavioral assessments of rats exposed perinatally to a commercial mixture of polychlorinated biphenyls. **Toxicological Sciences** 68:109-120, 2002.

Calderon, RL, Abernathy, CO and Thomas, DJ. Consequences of acute and chronic arsenic

exposure. Pediatric Annals 33:461-466, 2004.

Campen, MJ, Norwood, J McKee, JL, Mebane, R, Hatch, GE and Watkinson, WP. Ozoneinduced hypothermia and bradycardia in rats and guinea pigs in nose-only or whole-body inhalation systems. **Journal of Thermal Biology** 25:81-89, 2000.

Campen, MJ, Nolan, J, Schladweiler, M, Kodavanti, U, Evansky, P, Costa, D and Watkinson, W P. Cardiovascular and thermoregulatory effects of inhaled PM-associated transition metals: A potential interaction between nickel and vanadium. **Toxicological Sciences** 64:243-252, 2001

Carter, JH, Carter, HW, Deddens, JA, Hurst, BM, George, MH and DeAngelo, AB. A 2-year dose-response study of lesion sequences during hepatocellular carcinogenesis in the male B6C3F(1) mouse given the drinking water chemical dichloroacetic acid. **Environmental Health Perspectives** 111: 53-64, 2003.

Charnley, G and Putzrath, RM. Children's health, susceptibility, and regulatory approaches to reducing risks from chemical carcinogens. **Environmental Health Perspecives**109:187-192, 2001.

Chauhan, K. R., Kodavanti, P. R. S. and McKinney, J. D.: Assessing the role of *ortho*-substitution on polychlorinated biphenyl binding (PCB) to transthyretin, a thyroxine transport protein. **Toxicology and Applied Pharmacology** 162, 10-21, 2000.

Chelu, MG, Goonasekera, SA, Durham, WJ, Tang, W, Lueck, JD, Riehl, J, Pessah, IN, Zhang, P, Battacharjee, MB, Dirksen, RT and Hamilton, SL. Heat- and anesthesia-induced malignant hyperthermia in a RyR1 knock-in mouse. **FASEB Journal** 20: 329-330, 2006.

Cherednichenko, G, Zima, AV, Feng, W, Schaefe, rS, Blatter, LA and Pessah IN. NADH oxidase activity of rat cardiac sarcoplasmic reticulum regulates calcium-induced calcium release. **Circulation Research** 94:478-486, 2004 (NCER).

Cherednichenko, G, Hurne, AM, Fessenden, JD, Lee, EH, Allen, PD, Beam, KG and Pessah, IN Conformational activation of Ca2+ entry by depolarization of skeletal myotubes. **Proceedings of the National Academy of Sciences U S A** 101:15793-15798, 2004 (NCER).

Chen, C-Y, Hamm, JT, Hass, JR, Albro, P and Birnbaum, LS. A mixture of polychlorinated bidenzo-*p*-dioxins (PCDDs), dibenzofurans (PCDFS), and non-ortho polychlorinated biphenyls (PCBS) changed the lipid content of pregnant Long Evans rats. **Chemosphere** 46:1501-1504, 2002.

Chen, JM. Common conformational effects in the p53 protein of vinyl chloride-induced mutations. **Journal of Protein Chemistry** 18:467-472, 1999 (NCER).

Chen, JM, Rosal, R, Smith, S, Pincus, MR and Brandt-Rauf, PW. Common conformational effects of p53 mutations. Journal of Protein Chemistry 20:101-105, 2001 (NCER).

Chen, ZY, Sun, C, Reuhl, K, Bergemann, A, Henkemeyer, M and Zhou, R. Abnormal hippocampal axon bundling in EphB receptor mutant mice. **Journal of Neuroscience** 24:2366-2374, 2004 (NCER).

Cherednichenko G, Hurne A, Fessenden JD, Lee EH, Allen PD, Beam KG and Pessah IN. Conformational activation of Ca2+ entry by depolarization of skeletal myotubes. **Proceedings of the National Academies of Science USA** 101: 15793–15798, 2004 (NCER).

Clark, KB, Perantie, D, Yin, X, Lee, WR and Wilson, VL. Germline molecular mutation assay in Drosophila melanogaster. **Environmental and Molecular Mutagenesis** 35:18, 2000 (NCER).

Clark, LH, Setzer, RW and Barton, HA. Framework for evaluation of physiologically-based pharmacokinetic models for use in safety or risk assessment. **Risk Analysis** 24: 1697-1717, 2004.

Clewell, HJ III, Andersen ME and Barton HA. A consistent approach for the application of pharmacokinetic mModeling in cancer and noncancer risk assessment. **Environmental Health Perspectives** 110, 85-93, 2002.

Coleman, C, Blakely, W, Fike, J, Macvittie, Metting, N, Mitchell, J, Moulder, J, Preston, J, Seed, T, Stone, J, Tofilon, P and Wong, R. Molecular and cellular biology of moderate-dose (1-10Gy) radiation and potential mechanisms of radiation protection: Report of s workshop at Bethesda, Maryland, December 17-18, 2001. **Radiation Research** 159:812-834, 2003.

Conklin, SD, Ackerman, AH, Fricke, M, Creed, PA, Creed, JT, Kohan, MJ, Herbin-Davis, K, Thomas, DJ. In vitro biotransformation of an arsenosugar by mouse anaerobic cecal microflora and cecal tissue examined using IC-ICP-MS and LC-ESI-MS/MS. **The Analyst** 131: 648-655, 2006.

Conolly, RB, Kimbell, JS, Janszen, D, Schlosser, PM, Kalisak, D, Preston, RJ and Miller, F. Human respiratory tract cancer risk of inhaled formaldehyde: Dose-response predictions derived from biologically-motivated computational modeling of a combined rodent and human dataset. **Toxicological Sciences** 82: 279-296, 2004.

Conolly, R, Kimbell, J, Janszen, D, Schlosser, P, Kalisak, D, Preston, J and Miller, F. Biologically motivated computational modeling of formaldehyde carcinogenicity in the F344 rat. **Toxicological Sciences** 75:432-447, 2003.

Cooper, RL, Goldman, JM and Stoker, TE. Neuroendocrine and reproductive effects of contemporary use pesticides. **Toxicology and Industrial Health** 15: 26-36, 1999.

Cooper, RL, Stoker, TE, Tyrey, L, Goldman, JM and McElroy, WK. Atrazine disrupts the hypothalamic control of pituitary-ovarian function. **Toxicological Sciences** 53:297-307, 2000.

Cooper, RL and Kavlock, RJ. Endocrine Disrupting Chemicals (EDCs): Session

Overview. International Journal of Human and Ecological Risk Assessment 7:971-978, 2001.

Costa, LG, Guizzetti, M and Lu, H. Intracellular signal transduction pathways as targets for neurotoxicants. **Toxicology** 160: 19 – 26, 2001 (NCER).

Cozzi, E, Hazarika, S, Stallings, I, Cascio, WE, Devlin, RB, Lush, RM, Wingard, CJ and Van Scott, MR. Ultrafine particulate matter exposure augments ischemia reperfusion injury in mice. **American Journal of Physiology: Heart and Circulatory Physiology**, in press, 2006.

Craft E, DeVito, MJ and Crofton, KM. Comparative responsiveness of hepatic enzyme induction and hypothroxenemia in long-evans rats versus c57bl/6j mice exposed to TCDD-like and phenobarbital-like polychlorinated biphenyl (PCB) congeners. **Toxicological Sciences** 68:372-80, 2002.

Crofton, KM. Developmental disruption of thyroid hormone: correlations with hearing dysfunction in rats. **Risk Analysis** 24:1665-1669, 2004.

Crofton, KM and Rice, DC. Perinatal exposure to PCB126: Thyroid hormones and ototoxicity. **Neurotoxicology and Teratology** 21:299-301, 1999.

Crofton, KM and Zoeller, R. Mode of action: neurotoxicity induced by thyroid hormone disruption during development - hearing loss resulting from exposure to phahs. **CRC Critical Reviews in Toxicology** 35:757-769, 2005.

Crofton, KM.Kodavanti, PRS, Derr-Yellin, EC, Casey ,AC and Kehn, LS Thyroid hormones and ototoxicity in rats: Cross-fostering experiments demonstrate the influence of postnatal lactational exposure. **Toxicological Sciences** 57:131-140, 2000.

Crofton, KM, Ding, D, Padich, R, Taylor, M and Henderson, D. Hearing loss following developmental exposure to polychlorinated biphenyls: A cochlear site of action. **Hearing Research** 144:196-204, 2000.

Crofton, KM, Craft, ES, Hedge, JM, Gennings, C, Simmons, JE, Carchman, RA, Carter, WH and DeVito, MJ. Thyroid-hormone-disrupting chemicals: Evidence for dose-dependent additivity or synergism. **Environmental Health Perspectives** 113: 1549-1554, 2005.

Crosby, LM, Morgan, KT, Gaskill, B, Wolf, DC, and DeAngelo, AB. Origin and distribution of potassium bromate-induced testicular and peritoneal mesotheliomas. **Toxicologic Pathology** 28:253-266, 2000.

Crumpton, TL, Atkins, D, Zawia, N, and Barone S. Jr., Lead exposure in pheochromocytoma (PC12) cells alters neural differentiation and Sp1 DNA-binding. **NeuroToxicology** 22:49-62, 2001.

Cummings, AM, Rhodes, BE and Cooper, RL. Effect of atrazine on implantation and early

pregnancy in four strains of rats. Toxicological Sciences 58:135-143, 2000.

Das, KP, Chao, SL, White, LD, Haines, WT, Harry, GJ, Tilson, HA and Barone, S. Differential patterns of nerve growth factor, brain-derived neurotrophic factor and neurotrophin-3 mRNA and protein levels in developing regions of rat brain. **Neuroscience** 103: 739-761, 2001.

Das, PC, McElroy, WK and Cooper, RL. Differential modulation of catecholamines by chlorotriazine herbicides in pheochromocytoma (PC12) cells *in vitro*. **Toxicological Sciences** 56: 324-331, 2000.

Das, PC, McElroy, WK and Cooper, R. Alteration of catecholamines in pheochromocytoma (PC12) cells *in vitro* by the metabolites of chlorotriazine herbicide. **Toxicological Sciences** 59: 127-137, 2001.

Das, PC, McElroy, WK and Cooper, RL. Potential mechanisms responsible for chlorotriazine-induced changes in catecholamine metabolism in pheochromocytoma cells. **Life Sciences** 73: 3123-3138, 2003.

Davis, C, Desai, D, Amin S and Nesnow S. Comparison of the morphological transforming activities of Fjord-region PAHs with dibenzo[a,e]pyrene and benzo[a]pyrene. **Polycyclic Aromatic Compounds** 14/15:151-160, 1999.

DeAngelo, AB, Geter, DR, Rosenberg, DW, Crary, CK and George, MH. The induction of aberrant crypt foci (ACF) in the colons of rats by trihalomethanes administered in the drinking water. **Cancer Letters** 187: 25-31, 2002.

deGrauw, TJ, Cecil, KM, Byars, AW, Salomons, GS, Ball, WS and Jakobs, C. The clinical syndrome of creatine transporter deficiency. **Molecular and Cell Biochemistry** 244:45-48, 2003 (NCER).

Del Razo, LM, Styblo, M, Cullen, WR and Thomas, DJ. Determination of trivalent methylated arsenicals in biological matrices. **Toxicology and Applied Pharmacology** 174: 282-293, 2001.

DeMarini, DM and Claxton, LS. Outdoor air pollution and DNA damage. **Occupational Environmental Medicine**. 63: 227-229, 2006.

Desai, D, Sharma, A, Pimentel, M, Lin, J, El-Bayoumy, J, Nesnow, S and Amin, S. Synthesis, *in vitro* metabolism, mutagenicity, and DNA-adduction of naphtho[*1,2-e*]pyrene. **Polycyclic Aromatic Compounds** 23: 267-276, 2002.

Desai, D, Sharma, A, Lin, J, Krzeminski, J, El-Bayoumy, K, Pimentel, M, Nesnow, S and Amin, S. Synthesis, *in vitro* metabolism, cell transformation, mutagenicity, and DNA adduction of benzo[*c*,*mno*]chrysene. Chemical Research in Toxicology 15:964-971, 2002.

Devesa, V, Del Razo, LM, Adair B, Drobna, Z, Waters SB, Hughes, MF, Stýblo, M and Thomas, DJ. Comprehensive analysis of arsenic metabolites by pH-specific hydride generation atomic

absorption spectrometry. Journal of Analytical Atomic Spectrometry 19:1460-1467, 2004

Devesa, V, Adair, BM, Liu, J, Waalkes, MP, Diwan, BA, Styblo, M and Thomas, DJ. Arsenicals in maternal and fetal mouse tissues after gestational exposure to arsenite. **Toxicology**, in press. DeVito, MJ. Screening methods for chemicals that alter thyroid hormone action, function and homeostasis. **Environmental Health Perspectives** 107:407-414, 1999.

Devesa, V, Adair, BM, Liu, J, Waalkes, MP, Diwan, BA, Styblo, M and Thomas, DJ: Arsenicals in maternal and fetal mouse tissues after gestational exposure to arsenite. Toxicology, in press, 2006

DeVito, MJ, Diliberto, JJ, Ross, DG, Menache, MG and Birnbaum, LS. Dose-response relationships for polychlorinated biphenyls following subchronic treatment in mice: CYP1A1 and CYP1A2 enzyme activity in liver, lung and skin. **Toxicology and Applied Pharmacology** 167:157-72, 2000.

DeVito, MJ, Menache, M, Diliberto, JJ, Ross, DG and Birnbaum, LS. Dose-response relationships for induction of CYP1A1 and CYP1A2 enzyme activity in liver, lung, and skin in female mice following subchronic exposure to polychlorinated biphenyls. **Toxicology and Applied Pharmacology** 167:157-172, 2000.

DeVito, MJ and Schecter A. Estimates of TCDD exposure through the use of tampons and diapers. **Environmental Health Perspectives** 110:23-28, 2002.

Devlin, RB, Frampton, ML and Ghio, AJ. In vitro studies: what is their role in toxicology? **Experimental and Toxicologic Pathology** 57 (Suppl 1): 183-188, 2005.

DeVito, M, Biegel, E, Brouwer, B, Brown, S, Brucker-Davis, F, Cheek, O, Christensen, R, Colborn, T, Cooke, P, Crissman, J, Crofton, K, Doerge, D, Gray, E, Hauser, P, Hurley, P, Kohn, M, Lazar, J, McMaster, S, McClain, M., McConnell, E, Meier, C, Miller, R, Tietge J and Tyl, R. Screening methods for chemicals that alter thyroid hormone action, function and homeostasis Workshop. **Environmental Health Perspectives** 107:407-415, 1999.

DeWoskin, RS, Barone, S Jr., Clewell, HJ and Setzer, RW. Improving the development and use of biologically based dose response models (BBDR) in risk assessment. **Human and Ecological Risk Assessment** 6:1091–1120, 2001.

Dietert, RR, Etzel, RA, Chen, D, Halonen, M, Holladay, SD, Jarabek, AM, Landreth, K, Peden, DB, Pinkerton, K, Smialowicz, RJ and Zoetis, T. Windows of vulnerability for the immune and respiratory systems. **Environmental Health Perspectives** 108: 483–490, 2000.

Diliberto, JJ, Burgin, D and Birnbaum, LS. Effects of CYP1A2 on disposition of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin, 2,3,4,7,8-pentachlorodibenzofuran, and 2,2',4,4',5,5'-hexachlorobiphenyl in CYP1A2 knockout and parental (C57BL/6N and 129/Sv) strains of mice. **Toxicology and Applied Pharmacology** 159:52-64, 1999.

Diliberto, JJ, DeVito, MJ, Ross, DG and Birnbaum, LS. Subchronic exposure of [<sup>3</sup>H]2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD) in female B6C3F1 mice: Relationship of steady-state levels to disposition and metabolism. **Toxicological Sciences** 61: 241-255, 2001.

DeMarini, D, Shelton, M, Kohan, Hudgens, E, Kleindienst, T, Ball, L, Walsh, D, de Boer, J, Lewis-Bevan L, Rabinowitz, J, Claxton, L and Lewtas, J. Mutagenicity in lung of big blue mice and induction of tandem-base substitutions in salmonella by the air pollutant peroxyacetyl nitrate (PAN): predicted formation of intrastrand cross-links. **Mutation Research** 457:41–55, 2000.

1DeVito, M, Biegel, L, Brouwer, A, Brucker-Davis, F, Cheek, A, Christensen, R, Colborn, T, Cooke, P, Crissman, J, Crofton, K, Doerge, D, Gray, E, Hauser, P, Hurley, P, Kohn, M, Lazar, J, McMaster, S, McClain, M, McConnell, E, Meier, C, Miller, R, Tiege, J and Tyle, R. Screening methods for thyroid hormone disruptors. **Environmental Health Perspectives** 107:134-144 1999.

Ding, X and Kaminsky, LS. Human extrahepatic cytochromes P450: function in xenobiotic metabolism and tissue-selective chemical toxicity in the respiratory and gastrointestinal tracts. **Annual Review of Pharmacology and Toxicology** 43:149-173, 2003 (NCER).

Doi, AM, Patterson, P and Gallagher, EP. Variability in aflatoxin B<sub>1</sub> macromolecular binding and relationship to biotransformation enzyme expression in human prenatal and adult liver. **Toxicology and Applied Pharmacology** 181:48-59, 2002 (NCER).

Driscoll, KE, Costa, DL, Hatch, GE, Henderson, R, Oberdorster, G, Salem, H and Schlesinger, RB. Intratracheal instillation as an exposure technique for the evaluation of respiratory tract toxicity: Uses and limitations. **Toxicological Sciences** 55: 24-35, 2000.

1Driver, AS, Kodavanti, PRS and Mundy, WR. Age-related changes in reactive oxygen species production in rat brain homogenates. **Neurotoxicology and Teratology** 22:175-181, 2000.

Drobná, Z, Jaspers, I, Thomas, DJ and Stýblo, M. Differential activation of AP-1 in human bladder epithelial cells by inorganic and methylated arsenicals. **FASEB Journal** 17:67-69, 2003.

Drobná, Z, Waters, SB, Walton, FS, LeCluyse, EL, Thomas, DJ and Stýblo, M. Interindividual variation in the metabolism of arsenic in cultured primary human hepatocytes. **Toxicology and Applied Pharmacology** 201:166-177, 2004.

Drobná, Z, Waters, SB, Devesa, V, Harmon, AW, Thomas, DJ and Stýblo, M. Metabolism and toxicity of arsenic in human urothelial cells expressing rat arsenic (+3 oxidation state)methyltransferase. **Toxicology and Applied Pharmacology** 207: 147-159, 2005.

Du, XL, Tang, Y, Ahwood P, Gregg JP and Sharp FR. Characteristic genomic profiles for peripheral CD4+ T cells, CD8+ T cells, CD19+ B cells, CD56+ natural killer cells, CD14+ monocytes and polymorphonuclear cells. **Genomics**, in press, 2006 (NCER).

Duramad P, McMahon CW, Hubbard A, Eskenazi B and Holland NT. Flow cytometric detection of intracellular TH1/TH2 cytokines using whole blood: validation of immunologic biomarker for use in epidemiologic studies. **Cancer Epidemiology Biomarkers and Prevention** 13:1452-8, 2004 (NCER).

Dye, JA, Adler, KB, Richards, JH and Dreher, KL. Role of soluble metals in oil fly ash-induced airway epithelial injury and cytokine gene expression. **American Journal of Physiology** 277: L498-L510, 1999.

DuTeaux, SB, Newman, JW, Morisseau, C, Fairbairn ,EA, Jelks, K, Hammock, BD and Miller, MG. Epoxide hydrolases in the rat epididymis: possible roles in xenobiotic and endogenous Fatty Acid metabolism. **Toxicological Sciences** 78:187-195, 2004 (NCER).

Easterling, MR, Evans, MV, and Kenyon, EM Comparative analysis of software for physiologically based pharmacokinetic modeling: simulation, optimization and sensitivity analysis. **Toxicology Methods** 10:203-229, 2000.

Easterling, MR, Styblo, M, Evans, MV and Kenyon, EM. Pharmacokinetic modeling of arsenite uptake and metabolism in hepatocytes – mechanistic insights and implications for further experiments. Journal of Pharmacokinetics and Pharmacodynamics 29:207-34, 2002.

Emond C, Birnbaum LS and DeVito MJ. Physiologically-based pharmacokinetic model for developmental exposures to TCDD in the rat. **Toxicological Sciences**. 80:115-33, 2004.

Emond, C, Michalek, JE, Birnbaum, LS and DeVito, MJ. Comparison of the use of a phyisiologically-based pharmacokinetic model and a classical pharmacokinetic model for dioxin exposure assessments. **Environmental Health Perspectives** 113: 1666-1668, 2006.

Evans, MJ, Fanucchi, MV, Van, W, Baker, GL, Murphy, AE, Nishio, SJ, Sannes, PL and Plopper, CG. Fibroblast growth factor-2 during postnatal development of the tracheal basement membrane zone. **American Journal of Physiology-Lung Cellular and Molecular Physiology** 283:L1263-L1270, 2001 (NCER).

Evans, ME, Van, W, Fanucchi, MV and Plopper, CG. Cellular and molecular characteristics of basal cells in airway epithelium. **Experimental Lung Research** 27:401-415, 2001 (NCER).

Fanucchi, MV, Hinds, D, Cuellar, JM and Plopper, CG. Species-specific susceptibility of neonatal mice and rats to naphthalene and 1-nitronaphthalene. **American Journal of Respiratory and Critical Care Medicine** 161:A172, 2000 (NCER).

Fanucchi, MV, Buckpitt, AR, Murphy, ME, Storms, DH, Hammock, BD and Plopper, CG. Development of phase II xenobiotic metabolizing enzymes in differentiating murine Clara cells. **Toxicology and Applied Pharmacology** 168:253-267, 2000 (NCER).

Fenster, L, Waller, K, Windham, G, Henneman, T, Anderson, M, Mendola, P, Overstreet, JW

and Swan, S. Trihalomethane levels in home tap water and semen quality. **Epidemiology** 14:650-658, 2003.

Fenton, SE and Davis, CC. Atrazine exposure in utero increases dimethylbenz[a]anthraceneinduced mammary tumor incidence in Long-Evans offspring. **Toxicological Sciences** 66:195, 2002.

Fenton, SE, Hamm, J, Birnbaum, LS and Youngblood, GL. Persistent abnormalities in the rat mammary gland following gestational and lactational exposure to 2,3,7,8- tetrachlorodibenzo-p-dioxin (TCDD). **Toxicological Sciences** 67: 63-74, 2002.

Fessenden, JD, Feng, W, Pessah, IN and Allen, PD. Mutational analysis of putative calcium binding motifs within the skeletal ryanodine receptor isoform, RyR1. **Journal of Biological Chemistry** 17: 53028-53035, 2004 (NCER).

Fisher, JW, Campbell, J, Muralidhara, S, Bruckner, JV, Ferguson, D, Mumtaz, M, Harmon, B, Hedge, J, Crofton, K, Kim, H and Almekinder, TL. Effect of PCB 126 on hepatic metabolism of thyroxine and perturbations in the hypothalamic-pituitary-thyroid axis in the rat. **Toxicological Sciences** 90: 87-95, 2005.

Flowers, L, Rieth, S, Cogliano, V, Foureman, G, Hertzberg, G, Hofmann, E, Murphy, D, Nesnow, S, and Schoeny, R. Workshop on approaches to assessing the health risk of PAH mixtures. **Polycyclic Aromatic Compounds** 23:811-821, 2002.

Furlong, CE, Riede, r MJ and Carlson, CS. New polymorphisms in the human paraoxonase (PON1) gene. **Toxicological Sciences** 72:100-110, 2003 (NCER).

Gafni, J, Wong, PW and Pessah, IN. Non-coplanar 2,2',3,5',6-pentachlorobiphenyl (PCB 95) amplifies ionotropic glutamate receptor signaling in embryonic cerebellar granule neurons by a mechanism involving ryanodine receptors. **Toxicological Sciences** 77:72-82, 2004 (NCER).

Gallagher, EP and Sheehy, KM. Effect of phenytoin on gene expression, oxidative damage and cell viability of cultured human fetal liver slices. **Toxicological Sciences** 59:118-126, 2001 (NCER).

Gallagher, EP and Gardner, JL. Comparative expression of two alpha class glutathione S-transferases in human adult and prenatal liver tissues. **Biochemical Pharmacology** 63:2025-2036, 2002 (NCER).

Gallagher J, R Sams II, J Inmon, R Gelein, A Elder, G Oberdorster and A K Prahalad. Formation of 8-oxo-dG in rat lung following subchronic inhalation of carbon black. **Toxicology and Applied Pharmacology** 190:224-31, 2003.

Gao, J, Voss, AA, Pessah, I, Lauer, FT, Penning, TM, Burchiel, SW. Ryanodine receptormediated rapid increase in intracellular calcium induced by 7,8-benzo(a)pyrene quinone in human and murine leukocytes. **Toxicological Sciences** 87:419-426, 2005 (NCER) Geller, AM, Bushnell, PJ and Rice, DC. Behavioral and electrophysiological estimates of visual thresholds in awake rats treated with 3,3',4,4',5-pentachlorobiphenyl (PCB 126) **Neurotoxicology and Teratology** 22: 521-532, 2000.

Geller, AM, Oshiro, W, Haykal-Coates, N, Kodavanti, PRS and Bushnell, PJ. Gender-dependent behavioral and sensory effects of a commercial mixture of polychlorinated biphenyls (Aroclor 1254) in rats. **Toxicological Sciences** 59: 268-277, 2001.

Gellar, SC, Gregg, JP, Hegermann, P and Rocke DM. Transformation and normalization of olionucleotide microarray data. **Bioinfomatics** 19:1817-1823, 2003 (NCER). George, SE, Brooks, LR, Bailey, KC, Hooth, MJ, Wolf, DC and Nelson, GM. Changes in cecal microbial metabolism of rats induced by individual and a mixture of drinking water disinfection by-products. **Cancer Letters** 204:15-21, 2004.

George, MH,, Olson, GR, Doerfler, D, Moore, T, Kilburn, S and DeAngelo, AB. Carcinogenicity of bromodichloromethane administered in drinking water of male F344/N rats and B6C3F1 mice. **International Journal of Toxicology** 21: 219-230, 2002.

German, JB, Watkins, SM and Fay, L-B. Metabolomics in practice: Emerging knowledge to guide future dietetic advice toward individualized health. Journal of the American Dietetic Association, in press, 2005 (NCER).

Geter, DR, Chang, LW, Hanley, NM, Ross, MK, Pegram, RA and DeAngelo, AB. Analysis of in vivo and in vitro DNA strand breaks from trihalomethane exposure. **Journal of Carcinogenesis** 3:2, 2004.

Geter, DR, George, MH, Moore, TM, Kilburn, S, Huggins-Clark, G and DeAngelo, AB. Vehicle and mode of administration effects on the induction of aberrant crypt foci in the colons of male F344/N rats exposed to bromodichloromethane. **Journal of Toxicology and Environmental Health A** 67: 23-29, 2004.

Geter, DR, George, MH, Moore, TM, Kilburn, SR, Huggins-Clark, G and DeAngelo, AB. The effects of high animal fat diet on the induction of aberrant crypt foci in the colons of male F344/N rats exposed to trihalomethanes in the drinking water. **Toxicology Letters** 147:245-252, 2004.

Geter, DR, Moore, TM, George, MH, Kilburn, SR, Allen, JW, Nelson, GM, Winkfiled, E and DeAngelo, AB. Tribromomethane exposure and dietary folate deficiency in the formation of aberrant crypt foci in the colons of F344/N rats. **Food Chemistry Toxicology** 43: 1405-1412, 2005.

Ghio AJ, Suliman HB, Carter JD, Abushamaa AM and Folz RJ. Overexpression of extracellular superoxide dismutase decreases lung injury after exposure to oil fly ash. American Journal of Physiology, Lung Cellular and Molecular Physiology 283:L211-L218, 2002.

1Ghio, AJ, Richards, JH, Carter, JD and Madden, MC. Accumulation of iron in the rat lung after

intratracheal instillation of diesel particles. Toxicologic Pathology 28:619-627, 2000.

Ghio AJ, Stoneheurner J, Dailey LA and Carter JD. Metals associated with both the watersoluble and insoluble fractions of an ambient air pollution particle catalyze an oxidative stress. **Inhalation Toxicology** 11:37-49, 1999.

Gibney, MJ, Walsh, M, Brennan, L, Roche, HM, German, B and van Ommen, B. Metabolomics in human nutrition: opportunities and challenges. **American Journal of Clinical Nutrition,** in press, 2005 (NCER).

Gilbert, ME. Perinatal exposure to polychlorinated biphenyls alters excitatory synaptic transmission and short-term plasticity in the hippocampus of the adult rat. **NeuroToxicology** 24:851-860, 2003.

Gilbert, ME and Crofton, KM. Developmental exposure to a complex PCB mixture (Aroclor 1254) produces a persistent impairment in long-term potentiation in the dentate gyrus in vivo. **Brain Research** 850:87-95, 1999.

Gilbert, ME and Lasley, S. Long-term consequences of developmental exposure to lead or polychlorinated biphenyls: synaptic transmission and plasticity in the rodent. **Environmental Toxicology and Pharmacology** 12:105-117, 2002.

Gilbert, M E and Paczkowski, C. Propylthiouracil (ptu)-induced hypothyroidism in the developing rat impairs synaptic transmission and plasticity in the dentate gyrus of the adult hippocampus. **Developmental Brain Research** 145:19-29, 2003.

Gilbert, ME and Sui, L. Dose-dependent reductions in spatial learing and synaptic function in the dentate gyrus of adult rats following developmental thyroid hormone insufficiency. **Developmental Brain Research**, in press.

Gilbert, ME, Mundy, W and Crofton, KM. Spatial learning and long-term potentiation in the dentate gyrus of the hippocampus in animals developmentally exposed to A1254. **Toxicological Sciences** 57:102-111, 2000.

Gilmour, PS, Schladweiler, MC, Ledbetter, AD, Samet, JM and Kodavanti, UP. The hypertensive rats are susceptible to TLR-4-mediated signaling following exposure to combustion particulate matter (PM). **Inhalation Toxicology** 16 (Suppl 1):5-18, 2004.

Goldman, JM and Murr, AS. Dibromoacetic acid-induced elevations in circulating estradiol: Effects in both cycling and ovariectomized/steroid-primed female rats<sup>-</sup> **Reproductive Toxicology** 17: 585-592, 2003.

1Goldman, JM, Laws, SC, Balchak, SK, Cooper, RL and Kavlock, RJ. Endocrine disrupting chemicals: Prepubertal exposures and effects on sexual maturation and thryroid activity in the female rat. A review of the EDSTAC recommendations. **Critical Reviews in Toxicology** 30:

135-196, 2000.

Goldman, JM and Murr, AS. Alterations in ovarian follicular progesterone secretion by elevated exposures to the drinking water disinfection by-product dibromoacetic acid: Examination of the potential sites(s) of impact along the steroidogenic pathway. **Toxicology** 171:83-93, 2002.

Goldman, JM, Murr, AS, Buckalew, AR, Schmid, JE and Abbott, BD. Methoxychlor-induced alterations in the histological expression of angiogenic factors in pituitary and uterus. **Journal of Molecular Histology** 35:363-375, 2004.

Go V, Garey J, Wolff MS and Pogo BGT. Estrogenic potential of certain pyrethroid compounds in the human breast carcinoma cell line MCF7. **Environmental Health Perspectives** 107:173-177, 1999 (NCER).

Gong Z, Lu, X, Watt, C, Wen, B, He, B, Mumford, J, Ning, Z, Xia, Y and Le, XC. Speciation analysis of arsenic in ground water from Inner Mongolia with an emphasis on acid-leachable particulate arsenic. Analytical Chimica Acta, in press

Gordon, CJ. Role of environmental stress in the physiological reponse to chemical toxicants. **Environmental Research** 92: 1-7, 2003.

Gordon, CJ. Effect of cage bedding on temperature regulation and metabolism of group-housed female mice. **Comparative Medicine** 54: 63-68, 2004.

Gordon, CJ and Mack, CM. Influence of gender on thermoregulation and cholinesterase inhibition in the long-evans rat exposed to diazinon. Journal of Toxicology and Environmental Health A 66: 291-304, 2003.

Gordon, CJ and Ramsdell, JS. Effects of marine algal toxins on thermoregulation in mice. **Neurotoxicology and Teratology** 27: 727-731, 2005.

Gore, AC. Environmental toxicant effects on neuroendocrine function. **Endocrine** 14: 235-246, 2001 (NCER).

Gore, AC. Organochlorine pesticides directly regulate gonadotropin-releasing hormone (GnRH) gene expression and biosynthesis in the GT1-7 hypothalamic cell line. **Molecular and Cellular Endocrinology** 192: 157-170, 2001 (NCER).

Gore, AC, Wu, TJ, Oung, T, Lee, JB and Woller, MJ. A novel mechanism for endocrinedisrupting effects of polychlorinated biphenyls: Direct effects on gonadotropin-releasing hormone (GnRH) neurons. **Journal of Neuroendocrinology** 14: 814-823, 2002 (NCER).

Goth SR, Chu RA and Pessah IN. Oxygen tension regulates the maturation of GM-CSF expanded murine bone marrow dendritic cells by modulating class II MHC expression. Journal of Immunological Methods 28: 74-85, 2006 (NCER).

Goth SR, Chu RA, Gregg JP, Cherednichenko G and Pessah IN. Patterns of murine dendritic cell

dysfunction induced by nanomolar thimerosal in vitro. **Toxicological Sciences**, in press, 2005 (NCER).

Granville, CA, Ross, MK, Tornero-Velez, R, Hanley, NM, Grandstaff, RD, Gold, A, Richard, AM, Funasaka, K, Tennant, AH, Kligerman, AD, Evans, MV and DeMarini, DM. Genotoxicity and metabolism of the source-water contaminant 1,1-dichloropropene: activation of GSTT1-1 and structure-activity considerations. **Mutation Research** 572: 98-112, 2005.

Gunnison, AF and Hatch, GE. Ozone induced inflammation in prepregnant, pregnant, and lactating rats correlates with ozone dose estimated by oxygen-18. **American Journal of Physiology** 20: L332-L340, 1999.

Halladay, AK, Kusnecov, A, Michna, L, Kita, T, Hara, C and Wagner, GC. Relationship between methamphetamine-induced dopamine release, hyperthermia, self-injurious behaviour and long term dopamine depletion in BALB/c and C57BL/6 mice. **Pharmacology and Toxicology** 93:33 – 44, 2003 (NCER).

Halladay, AK, Tessarollo, L, Zhou, R and Wagner, GC. Neurochemical and behavioral deficits consequent to expression of a dominant negative EphA5 receptor. **Brain Research and Molecular Brain Research** 123:104-111, 2004 (NCER).

Hamm, J.T., Sparrow, B.R., Wolf, D., and Birnbaum, L.S. *In Utero* and lactational exposure to 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin alters postnatal development of seminal vesicle epithelium. **Toxicological Sciences** 54: 424-430, 2000.

Hamm, JT, Chen, C-Y and Birnbaum, LS. A mixture of dioxins, furans and non-ortho PCBs based upon consensus toxic equivalency factors produces dioxin-like reproductive dffects. **Toxicological Sciences** 74:182-191, 2003.

Hammock, BD and Spector, AA. Effect of soluble epoxide hydrolase inhibition on epoxyeicosatrienoic acid metabolism in human blood vessels. **American Journal of Physiology-Heart C** 287: H2412-H2420, 2004 (NCER).

Hanna, LM, Lou, S.-R, Su, S and Jarabek, AM. Mass Transport Analysis: Inhalation RfC Methods Framework for Interspecies Dosimetric Adjustment. **Inhalation Toxicology** 13:437–463, 2001.

Hansen, ME, Pessah, IN and Matsumura, F. Heptachlor expoxide induced a non-capacitataive type of Ca2+ entry and immediate early gene expression in mouse hepatoma cells. **Toxicology** 220: 218-231, 2006.

Hard, GC, Boorman, GA and Wolf ,DC. Re-evaluation of the chloroform 2-year drinking water bioassay in Osborne-Mendel rats supports renal tubule injury as the mode of action underlying the renal tumor response. **Toxicological Sciences** 53:237-244, 2000.

Harder, V, Gilmour, PS, Lentner, B, Karg, E, Takanaka, S, Ziesenis, A, Stampfl, A, Kodavanti,

UP, Heyder, J and Schulz, H. Cardiovascular responses in unrestrained WKY-rats to inhaled ultrafine carbon particles. **Inhalation Toxicology** 17: 29-42, 2005.

Harrill, JA, Meachman, CA, Shafer, TJ, Hughes, MF and Crofton, KM. Time and concentration dependent accumulative of 3H-deltamethrin in Xenopus laevis oocytes. **Toxicology Letters** 16: 79088, 2005.

Harry, GJ, Tyler, K, Lefebvre d'Hellencourt, C, Tilson, HA and Maier, WE. Morphological alterations and elevations in tumor necrosis factor-a, interleukin (IL)-1a, and IL-6 in mixed glia cultures following exposure to trimethyltin: Modulation by proinflammatory cytokine recombinant proteins and neutralizing antibodies. **Toxicology and Applied Pharmacology** 180: 205-218, 2002.

Hatch, G.E., Kodavanti, U., Crissman, K., Slade, R., and Costa, D. An "injury-time integral" model for extrapolating from acute to chronic effects of phosgene. **Toxicology and Industrial Health** 17:285-293, 2001.

Hatch, GE, Kodavanti, U, Costa, D, Dreher, K and Slade, R. An "injury- time integral" model for extrapolating from acute to chronic effects of phosgene. **Toxicology and Industrial Health** 17: 285-293, 2001.

Haws, LC, Su, SH, Harris, M, DeVito, MJ, Walker, NJ, Farland, WH, Finley, B and Birnbaum, LS. Development of a refined database of mammalian relative potency estimates for dioxin-like compounds. **Toxicological Sciences** 89:4-30, 2006.

Hedge, JM, DeVito, M and Crofton, K. The effects of *in vivo* acute exposure to polychlorinated biphenyls on free and total thyroxine in rats. **Toxicology Letters**, in press.

Henn, B, McMaster, SB and Padilla, SJ. Measuring cholinesterase activity in human saliva. **Journal of Toxicology and Environmental Health**, in press, 2006.

Herr, DW, Graff, JE, Derr-Yellin, EC, Crofton, KM and Kodavanti, P. R. S. Flash-, somatosensory-, and peripheral nerve-evoked potentials in rats perinatally exposed to Aroclor 1254. **Neurotoxicology and Teratology** 23: 591-601, 2001.

Herr, D, chanda, SM, Graff, JE, Barone, S, Beliles, RP and Morgan, DL. Evaluation of sensory evoked potentials in long-evans rats gestationally exposed to mercury vapor. **Toxicological Sciences** 82: 193-206, 2004.

Hester, SD, Benavides, G, Sarto, M, Yoon ,L, Wolf ,DC and Morgan, KT. Normal gene expression in male F344 rat nasal transitional and respiratory epithelium. **Gene** 285:301-310, 2002.

Hester, SD, Benavides, GB, Yoon, L, Morgan, KT, Zou, F, Barry ,W and Wolf DC. Formaldehyde-induced gene expression in F344 rat nasal respiratory epithelium. **Toxicology** 187:13-24, 2003. Hester, SD, Zou, F, Barry, W and Wolf DC. Use of gene profiling to differentiate a carcinogenic from a noncarcinogenic aldehyde in the rat nose. **Toxicologic Pathology**, in press.

Hilborn, E and Padilla, S. A dried blood spot method to evaluate cholinesterase activity in young children. **Archives of Environmental Health** 59:467-70, 2004.

Himmelstein, MW, Carpenter, SC, Evans, MV, Hinderliter, PM and Kenyon, E.M. Kinetic Modeling of b-chloroprene metabolism: II. The application of physiologically based modeling for cancer dose response analysis. **Toxicological Sciences** 79:28-37, 2003

Holland, N, Smith, MT, Eskenazi, B and Bastaki, M. Biological sample collection and processing for molecular epidemiological studies. **Reviews in Mutation Research** 543:217-234, 2003 (NCER).

Hooth ,MJ, DeAngelo, AB, George, MH, Gaillard, ET, Boorman ,G and Wolf, DC. Sodium chlorate results in a concentration-dependent increase in rat thyroid follicular cell hyperplasia following subchronic exposure in drinking water. **Toxicologic Pathology** 29:250-259, 2001.

Hooth, MJ, McDorman, KS, Hester, SD, George, MH, Brooks, LR, Swank , AE and Wolf DC. The carcinogenic response of Tsc2 mutant Long-Evans (Eker) rats to a mixture of drinking water disinfection by-products was less than additive. **Toxicological Sciences** 69: 322-331, 2002.

Howard, AS, Fitzpatrick, R, Pessah, I, Kostyniak, P and Lein, PJ. Polychlorinated biphenyls induce caspase-dependent cell death in cultured embryonic rat hippocampal but not cortical neurons via activation of the ryanodine receptor. **Toxicology and Applied Pharmacology** 190: 72-86, 2003 (NCER).

Howard, MD and Pope, CN. In vitro effects of chlorpyrifos, parathion, methyl parathion and their oxons on cardiac muscarinic receptor binding in neonatal and adult rats. **Toxicology** 170:1-10, 2002 (NCER).

Howard, PC, Sams II, RL, Bucher, JR and Allaben, WT. Photoxicology and photocarcinogenesis at the U.S. Food and Drug Administration's National Center for Toxicological Research. **Journal of Food and Drug Analysis** 10:252-257, 2002.

Howard, PC, Sams II, R.L., Dennis, D.A., and Wamer, W.G. Alpha-hydroxy acids: consideration of the biological effects and possible role in photocarcinogenesis. Journal of Food and Drug Analysis10:258-261, 2002.

Hu, Z, Yue, X, Shi, G, Yue, Y, Crockett, DP, Blair-Flynn, J, Reuhl, K, Tessarollo, L and Zhou, R. Corpus callosum deficiency in transgenic mice expressing a truncated ephrin-A receptor. **Journal of Neuroscience** 23:10963-10970, 2003 (NCER).

Huang YC, Wu W, Ghio AJ, Carter JD, Silbajoris R, Devlin RB and Samet JM. Activation of EGF receptors mediates pulmonary vasoconstriction induced by residual oil fly ash.

Experimental Lung Research 28:19-38, 2002.

Huang, P, Farkas, T, Marionneau, S, Zhong, W, Ruvoen Clouet, N, Morrow, AL, Altaye, M, Pickering, LK, Newburg, DS, LePendu, J and Jiang, X. Noroviruses bind to human ABO, Lewis, and secretor histological blood group antigens identification of 4 distinct strain specific patterns. **Journal of Infectious Diseases** 188:19-31, 2003 (NCER).

Huang, Q, Sacks, PG, Mo, J, McCormick, SA, Iacob, CE, Guo, L, Schaefer, L, and Schantz, S. A simple method for molelcular cytogenetic analysis of cancers. **Biotechnology and Histochemistry** 80: 147-156, 2005 (NCER).

Huang YC, Soukup J, Harder S and Becker S. Mitochondrial oxidant production by a pollutant dust and NO-mediated apoptosis in human alveolar macrophage. American Journal of Physiology Cell Physiology 284:C24-32, 2003.

Huang YC, Ghio AJ, Stonehuerner J, McGee J, Carter JD, Grambow SC and Devlin RB. The role of soluble components in ambient fine particles-induced changes in human lungs and blood. **Inhalation Toxicology** 15:327-42, 2003.

Hudnell, HK. Chronic biotoxin associated illness: multiple system symptoms, a vision deficit and effective treatment. **Neurotoxicology and Teratology** 27: 733-743, 2005.

Hughes, MF. Biomarkers of exposure: a case study with inorganic arsenic. Environmental Health Perspectives, in press, 2006.

Hughes, MF, Kenyon, EM, Edwards, BC, Mitchell, CT and Thomas, DJ. Strain-dependent disposition of inorganic arsenic in the mouse. **Toxicology** 137:95-108, 1999.

Hughes, MF, Del Razo, LM and Kenyon, EM. Dose-dependent effects on tissue and subcellular distribution of dimethylarsinic acid in the mouse after intravenous administration. **Toxicology** 143:155-156, 2000.

Hughes, MF, Kenyon, EM, Edwards, BC, Mitchell, CT, Del Razo, LM and Thomas, DJ. Accumulation and metabolism of arsenic in mice after repeated oral administration of arsenate. **Toxicology and Applied Pharmacology** 191:202-210, 2003.

Hughes, MF, Devesa, V, Adair, BM, Styblo, M, Kenyon, EM, and Thomas, DJ. Tissue dosimetry, metabolism and excretion of pentavalent and trivalent monomethylated arsenic in mice after oral administration. **Toxicology and Applied Pharmacology** 208: 186-197, 2005.

Hurne, AM, O'Brien, JJ, Wingrove, D, Cherednichenko, G, Allen, PD, Beam, KG and Pessah, I. Ryanodine receptor type 1 (RyR1) mutations C4958S and C4961S reveal excitation-coupled calcium entry (ECCE) is independent of sarcoplasmic reticulum store depletion. **Journal of Biological Chemistry** 280:36994-37004, 2005 (NCER) Hurst HH, DeVito MJ, Setzer RW and Birnbaum, LS. Acute administration of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in pregnant Long Evans rats: Association of measured tissue concentrations with developmental effects. **Toxicological Sciences** 53:411-20, 2000.

Hurst, CH, DeVito, MJ and Birnbaum, LS. Tissue disposition of 2,3,7,8-tetrachlorodibenzo-pdioxin (TCDD) in maternal and developing long evans ras following subchronic exposure. **Toxicological Sciences** 57:275-83, 2000.

Hurst, C, Abbott, BD, Schmid, JE and Birnbaum, LS. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) disrupts early morphogenetic events that form the lower reproductive tract in female rat fetuses. **Toxicological Sciences** 65, 87-98, 2002.

Inceoglu, B, Lango, J, Pessah, IN and Hammock, BD, Three structurally related, highly potent, peptides from the venom of Parabuthus transvaalicus possess divergent biological activity. **Toxicon** 45:727-733, 2005 (NCER).

Inglefield, JR, Mundy, W and Shafer, T.. IP3 receptor-sensitive ca2+ release, store-operated ca2+ entry, and creb phosphorylation in developing cortical cells following exposure to polychlorinated biphenyls. **Journal of Pharmacology and Experimental Therapeutics** 297:762-773, 2001.

Inglefield, JR, Mundy, W, Meacham, C and Shafer, T. Identification of calcium-dependent and -independent signaling pathways involved in polychlorinated biphenyl-induced creb phosphorylation in developing cortical neurons. **Neuroscience** 115:559-573, 2002.

ILSI Risk Science Institute Workshop Participants. The relevance of the rat lung response to particle overload for human risk assessment: A workshop consensus report. **Inhalation Toxicology** 12:1–17, 2000.

Jarvik, GP, Jampsa, R and Richter, RJ. Novel paraoxonase (PON1) nonsense and missense mutations predicted by functional genomic assay of PON1 status. **Pharmacogenetics** 13:291 – 295, 2003 (NCER).

Jaubert, PJ, Golub, MS, Lo, YY, Germann, SL, Worley, P and Berman, RF. Complex multimodal behavioral profile of the Homer 1 knockout mouse. **Genes, Brain and Behavior**, in press, 2005 (NCER).

Jiang N, Dreher KL, Dye JA, Li Y, Richards JH, Martin LD, and Adler KB. Residual oil fly ash induces cytotoxicity and mucin secretion by guinea pig epithelial cells via an oxidant-mediated mechanism. **Toxicology and Applied Pharmacology** 163:221-230, 2000.

Jenkins, S, Ehman, K and Barone, B. Structure-activity comparison of organotin species: Dibutyltin is a developmental neurotoxicant in vitro and in vivo. **Developmental Brain Research** 151: 1-12, 2004.

Judd, NL, Griffith, WC and Kalman, DA. Assessment of PCB congener analytical methods: Do

they meet risk assessment needs? Archives of Environment and Contamination Toxicology 44:132-139, 2003 (NCER).

Kadiiska, MB, Gladen, BC, Baird, DD, Dikalova, AN, Sohol, RS, Hatch, GE, Jones, DP, Mason, RP and Barrett, JC. Biomarkers of oxidative stress study: Are plasma antioxidants markers of CCl4 poisoning? **Free Radical Biology and Medicine** 28: 838-845, 2000.

Kadiiska MB, Ghio AJ and Mason RP. ESR investigation of the oxidative damage in lungs caused by asbestos and air pollution particles. **Spectrochim Acta A Molelcular Biomolecular Spectroscopy** 60:1371-7, 2004.

Kadiiska, MB, Gladen, BC, Baird, DD, Germolec, D, Graham, LB, Parker, CE, Nyska, A, Wachsman, JT, Ames, BN, Basu, S, Brot, N, Fitzgerald, GA, Floyd, RA, George, M, Heinecke, JW, Hatch, GE, Hensley, K, Lawson, JA, Marnett, LF, Morrow, JD, Murray, DM, Plastaras, J, Roberts, LJ, Rokach, J, Shigenaga, MK, Sohal, RS, Sun, J, Tice, RR, Van Thiel, DH, Wellner, D, Walter, PB, Tomer, KB, Mason, RP and Barrett, JC. Biomarkers of oxidative stress study II: Are oxidation products of lipids, proteins and DNA markers of CC14 poisoning. **Free Radical Biology and Medicine** 38: 698-710, 2005.

Kaminsky, L, Vakharia, D, Zhang, QY and Liu, N. Induction of CYP1A1/1A2 in human hepatocytes: effects of toxic metals. **Drug Metabolism Reviews** 32:242, 2000 (NCER).

Kaminsky, LS. Mechanisms of environmental metal modulation of PAH induction of human CYP1 in vitro. **Drug Metabolism Reviews** 33:144, 2001 (NCER).

Kavlock ,R, Ankley, GT, Collette, T, Francis, E, Hammerstrom, K, Fowle, J, Tilson H, Toth, G, Schmieder, P, Veith,GD, Weber, E, Wolf ,DC and Young, D: Computational Toxicology: Framework, Partnerships, and Program Development: A Workshop Report. **Reproductive Toxicology** 19: 265-289, 2005.

Khan, MA, Fenton, SE, Swank, AE, Hester, SK, Williams, A, and Wolf, DC. A mixture of ammonium perchlorate and sodium chlorate enhances alterations of the pituitary-thyroid axis caused by the individual chemicals in adult male F344 rats. **Toxicologic Pathology** 33: 776-783, 2005.

Kenyon, EM and Hughes, MF. A concise review of the toxicity and carcinogenicity of dimethylarsinic acid. **Toxicology** 160:227-236, 2001.

Kenyon, EM. Hughes, MF, Del Razo, LM, Edwards, BC, Mitchell, CT and Levander, OA. Influence of dietary selenium on the disposition of arsenate and arsenite in the female B6C3F1 mouse. **Environmental and Nutritional Interactions** 3:95-113, 1999.

Kenyon, EM, Fea, M, Styblo, M and Evans, MV. Application of modeling techniques to the planning of in vitro arsenic pharmacokinetic studies. **Alternatives to Laboratory Animals** (ATLA) 29:15-33, 2001.

Kenyon, E, Del Razo, LM, Hughes, MF and Kitchin, KT. An integrated pharmacokinetic and pharmacodynamic study of arsenite action. 2. Heme oxygenase induction in mice. **Toxicology** 206: 389-401, 2005.

Kenyon, EM, Del Razo, LM and Hughes, MF. Tissue distribution and urinary excretion of inorganic arsenic and its methylated metabolites in mice following oral administration of arsenate. **Toxicological Sciences** 85: 468-475, 2005.

Kim, AL. Conformational and molecular basis for induction of apoptosis by a p53 C-terminal peptide in human cancer cells. **Journal of Biological Chemistry** 274:924-931, 1999 (NCER).

King, L, Kohan, M, Brooks, L, Nelson, G, Ross, J, Allison, J, Adams, L, Desai, D, Amin, S, Padgett, W, Lambert, G and Nesnow, S. An evaluation of the mutagenicity, metabolic activation, and DNA adduct formation of 5-nitrobenzo[*b*]naphtho[*2*,*1*-*d*]thiophene. **Chemical Research in Toxicology** 14:661-671, 2001.

Kita, T, Wagne, r GC and Nakashima, T. Current Research on methamphetamine-induced neurotoxicity: animal models of monoamine disruption. **Journal of Pharmacological Sciences** 92:178-195, 2003 (NCER).

Kitchin, KT. Recent advances in arsenic carcinogenesis: modes of action, animal model systems and methylated arsenic metabolites. **Toxicology and Applied Pharmacology** 172: 249-261, 2001.

Kitchin, KT and Ahmad, S. Oxidative stress as a possible mode of action for arsenic carcinogenesis. **Toxicology Letters** 137: 3-13, 2003.

Kitchin, KT and Wallace, K. Arsenite binding to synthetic peptides based on the Zn finger region and the estrogen binding region of the human estrogen receptor-alpha. **Toxicology and Applied Pharmacology** 206: 66-72, 2005.

Kitchin, KT, Del Razo, LM, Brown, JL, Anderson, WL, Kenyon, EM and Thomas, DJ. An integrated pharmacokinetic and pharmacodynamic model of arsenite action. 1. Heme oxygenase induction in rats. **Teratogenesis, Carcinogenesis and Mutagenesis** 19:385-402, 1999.

Kitchin, KT and Wallace, K. Dissociation of arsenite-peptide complexes: Triphasic nature, rate constants, half lives and biological importance. **Journal of Biochemical and Molecular Toxicology** 20:48-56, 2006.

Kittler, R, Stoneking, M and Kayser, M. A whole genome amplificaton method to generate long fragments from low quantities of genomic DNA. **Analytical Biochemistry** 300:237-244, 2002 (NCER).

Kleeberger, SR, Jedlicka, AE, Reddy, SPM, Walters, D, Clarke, RW and Zhang, LY. Genetic mechanisms of susceptibility to ROFA-induced lung injury. **American Journal of Respiratory and Critical Care Medicine** 161:A912, 2000 (NCER).

Kligerman, AD, Doerr, CL and Tennant, AH. Oxidation and methylation status determine the effects of arsenic on the mitotic apparatus. **Molecular and Cellular Biochemistry** 279: 113-121, 2005.

Kligerman, AD, Doerr, CL, Tennant, AH and Peng, B. Cytogenetic studies of three triazine herbicides. I. In vitro studies. **Mutation Research** 465: 53-59, 2000.

Kligerman, AD, Doerr, CL, Tennant, AH and Peng, B. Cytogenetic studies of three trazine herbicides. II. In vivo micronucleus studies in mouse bone marrow. **Mutation Research** 471: 107-112, 2000.

Kligerman, A.D., Doerr, C, Tennant, A, Harrington-Brock, K, Allen, J, Winkfield, E, Poorman-Allen, P, Kundu, B, Funasaka, K, Roop, B, Mass, M and DeMarini, D. Methylated trivalent arsenicals as candidate ultimate genotoxic forms of arsenic: induction of chromosomal mutations but not gene mutations. **Environmental and Molecular Mutagenesis** 42:192-205, 2003.

Klinefelter, GR, Strader, LF, Suarez, JD, Roberts, NL, Goldman, JM and Murr, AS. Continuous exposure to dibromoacetic acid delays pubertal development and compromises sperm quality in the rat. **Toxicological Sciences** 8: 419-429, 2004.

Knapp, GW, Setzer, RW and Fuscoe JC. Quantitation of aberrant interlocus T-cell receptor rearrangements in mouse thymocytes and the effect of the herbicide 2,4-dichlorophenoxyacetic acid. **Environmental Molecular Mutagenesis** 42: 37–43, 2003.

Kodavanti, PRS. Neurotoxicity of persistent organic pollutants: possible mode(s) of action and further considerations. **Dose-Response** 3: 273-305, 2005.

Kodavanti, PRS and Tilson, H.A. Neurochemical effects of environmental chemicals: in vitro and in vivo correlations on second messenger pathways. Annals of the New York Academy of Science 919: 97-105, 2000.

Kodavanti, PRS and Derr-Yellin, EC. Differential effects of polybrominated diphenyl ethers and polychlorinated biphenyls on [<sup>3</sup>H]arachidonic acid release in rat cerebellar granule neurons. **Toxicological Sciences** 68: 451-457, 2002.

Kodavanti, PR and Ward, TR. Differential effects of commercial polybrominated diphenyl ether and polychlorinated biphenyl mixtures on intracellular signaling in rat brain in vitro. **Toxicological Sciences** 85: 952-962, 2005.

Kodavanti, PRS, Kannan, N, Yamashita, N, Derr-Yellin, EC, Ward, TR, Burgin, DE, Tilson, H A and Birnbaum, LS. Differential effects of two lots of Aroclor 1254: congener-specific analysis and neurochemical end points. **Environmental Health Perspectives** 109: 1152-1161, 2001.

Kodavanti, PRS, Ward, TR, Derr-Yellin, EC, McKinney, JD and Tilson, H. A.: Increased

[<sup>3</sup>H]phorbol ester binding in rat cerebellar granule cells and inhibition of <sup>45</sup>Ca<sup>2+</sup> buffering in rat cerebellum by hydroxylated polychlorinated biphenyls. **NeuroToxicology** 24:187-198, 2003.

Kodavanti, PRS, Ward, TR, Ludewig, G, Robertson, LW and Birnbaum, LS. Polybrominated diphenyl ether (PBDE) effects in rat neuronal cultures: 14C-PBDE accumulation, biological effects and structure-activity relationships. **Toxicological Sciences** 88: 181-192, 2005.

Kodavanti, UP, Schladweiler, MC, Ledgetter, A, Watkinson, WP, Campen, MJ, Winsett, DW, Richards, JR, Crissman, KM, Hatch, GE and Costa, DL. The spontaneously hypertensive rat as a model of human cardiovascular disease: Evidence of exacerbated cardiopulmonary injury and oxidative stress from inhaled emission particulate matter. **Toxicology and Applied Pharmacology** 164: 250-263, 2000.

Kodavanti, UP, Jackson, MC, Ledbetter, AD, Starcher, B, Evansky, PA, Harewood, A, Winsett, DW and Costa, D.L. The combination of elastase and sulfur dioxide exposure causes COPD-like lesions in the rat. **Chest** 117: 299S-302S, 2000.

Kodavanti, UP, Mebane, R, Ledbetter, A, Krantz, T, McGee, J, Jackson, M, Walsh, L, Hilliard, H, Chen B-Y, Richard, JR, and Costa, DL. Variable pulmonary responses from exposure to concentrated ambient air particles in a rat model of bronchitis. **Toxicological Sciences** 54: 441-451, 2000.

Kodavanti, UP, Schladweiler, MCJ. Ledbetter, A, Watkinson, WP, Campen, MJ, Winsett, DW, Richards, JR, Crissman, K., Hatch, GE and Costa, D. L. The spontaneously hypertensive rat as a model of human cardiovascular disease: Evidence of exacerbated cardiopulmonary injury and oxidative stress from inhaled emission particulate matter. **Toxicology and Applied Pharmacology** 164: 250-263, 2000.

Kodavanti, U, Schladweiler, MCJ, Richards, JR and Costa, DL. Acute lung injury from intratracheal exposure to fugitive residual oil fly ash and its constituent metals in normo- and spontaneously hypertensive rats. **Inhalation Toxicology** 13:37-54, 2001.

Kodavanti, UP, Schladweiler, M, Ledbetter, A, Hauser, R, Christiani, DC. McGee, J, Richards, JR and Costa, D.L. Temporal association between pulmonary and systemic effects of particulate matter in healthy and cardiovascular compromised rats. Journal of Toxicology and Environmental Health 65:101-125, 2002.

Kodavanti, UP, Schladweiler, MC, Ledbetter, AD, Hauser, R, Christiani, DC, Samet, J, McGee, J, Richards, JR and Costa, DL. Pulmonary and systemic effects of zinc-containing emission particles in three rat strains: multiple exposure scenarios. **Toxicological Sciences** 70: 73-85, 2002.

Kodavanti, UP, Moyer, C, Ledbetter, A, Schladweiler, M, Costa, D, Hauser, R, Christiani, D and Nyska, A. Inhaled environmental combustion particles cause myocardial injury in the Wistar Kyoto rat. **Toxicological Sciences** 71: 237-245, 2003.

Kongerud, J, Crissman, K, Hatch, GE and Alexis, N. Ascorbic acid is decreased in induced

sputum of mild asthmatics. Respiratory Research 15:101-109, 2003.

Kostyniak, PJ, Hansen, LG, Widholm, JJ, Fitzpatrick, RD, Olson, JR, Helferich, JL, Kim, KH, Sable, HJ, Seegal, RF, Pessah, IN and Schantz, S. Formulation and characterization of an experimental PCB mixture designed to mimic human exposure from contaminated fish. **Toxicological Sciences** 88: 400-411, 2005 (NCER).

Lamb, M, Taylor, S, Liu, X, Wolff, M., Matte, TD, Susser, E and Factor-Litvak, P: Prenatal exposure to polychlorinated biphenyls (PCBs) and postnatal growth: a structural analysis. **Environmental Health Perspectives**, in press (NCER).

Lambert, G, Padgett, W, George, M, Kitchin K and Nesnow, S. Quantitative Analysis of Alachlor Protein Adducts by Gas Chromatography-Mass Spectrometry. **Analytical Biochemistry** 268: 289-296, 1999.

Lan, Q, Mumford, JL, Shen, M, DeMarini, DM, Bonner, MR, He, X, Yeager, M, Welch, R, Chanock, S, TIan, L, Chapman, RS, Zheng, T, Keohavong, P, Caporaso, N and Rothman, N. Oxidative damage-related genes AKR1C3 and OGG1 modulate risks for lung cancer due to exposure to PAH-rich coal combustion emissions. **Carcinogenesis** 25: 2177-2181, 2004.

Lasky, RE, Widholm, JJ, Crofton, KM and Schantz, SL. Perinatal exposure to Aroclor 1254 impairs distortion in rats. **Toxicological Sciences** 68: 458-464, 2002.

Laumbach, RJ, Fiedler, N, Gardner, CR, Laskin, DL, Fan, ZH, Zhang, J, Weschler, CJ, Lioy, PJ, Devlin, RB, Ohman-Strickland, P, Kelly-McNeil, K and Kipen, HM. Nasal effects of a mixture of volatile organic compounds and their ozone oxidation products. **Journal of Occupational and Environmental Medicine** 47: 1182-1189, 2005.

Laws, SC, Ferrell, JM, Stoker, TE. Schmid, J and Cooper, RL. The effect of atrazine on puberty in female Wistar rats: An evaluation in the protocol for the assessment of pubuertal development and thyroid function. **Toxicological Sciences** 58: 366-376, 2000.

Laws, SC, Carey, SA, Ferrell, JM, Bodman, G and Cooper, RL. Estrogenic activity of octylphenol, nonylphenol, bisphenol A and methoxychlor in rats. **Toxicological Sciences** 54: 154-1667, 2000.

Laws, SC, Ferrell, JM, Stoker, TE and Cooper, RL. Pubertal development in female Wistar rats following exposure to propazine and atrazine biotransformation by-products, diamino-s-chlorotriazine and hyroxyatrazine. **Toxicological Sciences** 76: 190-200, 2003.

Leavens, TL, Sparrow, BR and DeVito, MJ. Antiandrogenic effects and disposition of 2,2-bis-(4-chlorophenyl)-1,1-dichloroethylene (p,p'-DDE) in adult male rats. **Toxicology** 174:69-78, 2002.

Lee, EH, Cherednichenko, G, Pessah, IN and Allen, PD. Functional coupling between TRPC3 and RyR1 regulatoes the expressions of key triadic proteins. **Journal of Biological Chemistry**, in press, 2006.

Lee, WR, Clark, KB, Guillot, DA and Wilson, VL. Detection of mutations in the germ line of Drosophilia melanogaster. **Environmental and Molecular Mutagenesis** 33:39, 1999 (NCER).

Lee, WR, Perantie, DC, Clark, KB, Guillot, DA and Wilson, VL. Effect of mutagen induced cell lethality on the dose response of germline mutations. **Environmental and Molecular Mutagenesis** 37:340-344, 2001 (NCER).

Lehmler, HJ, Roberston, LW, Garrison, AW and Kodavanti, PR. Effects of PCB84 enantiomers on 3H-phorbol ester binding in rat cerebellar granule cells and 45 Ca2+-uptake in rat cerebellum. **Toxicology Letters** 156: 291-400, 2005.

Li, J, Waters, SB, Drobna, Z, Devesa, V, Styblo, M and Thomas, DJ. Arsenic (+3 oxidation state) methyltransferase and the inorganic arsenic methylation phenotype. **Toxicology and Applied Pharmacology** 204, 164–169, 2005.

Li YH, Xia YJ, He LL, Ning ZX, Wu KG, Zhao, BX, Le XC, Kwok R, Schmitt M, Wade T, Mumford J and Otto, D. Neurosensory effects of chronic exposure to arsenic via drinking water in Inner Mongolia: I. Symptoms and pinprick testing. **Journal of Water and Health** 4:29-38, 2006.

Li, Z, Stonehuerner, J, Devlin, RB and Huang, Y. Discrimination of vanadium from zinc using gene profiling in human bronchial epithelial cells. **Environmental Health Perspectives** 113: 1747-1754, 2005.

Lilly, MZ, Sey, YM, Seely, JC, House, DE and Simmons, JE. The influence of gavage vehicle and concurrent exposure to trichloroethylene on chloroform hepatic and renal toxicity. **Journal of Toxicology and Environmental Health,** in press, 2006.

Lin, S, Del Razo, LM, Styblo, M, Wang, C, Cullen, WR and Thomas, DJ. Arsenicals inhibit thioredoxin reductase in cultured rat hepatocytes. **Chemical Research in Toxicology** 14: 305-311, 2001.

Lin, S, Shi, Q, Nix, FB, Styblo, M, Beck, MA, Herbin-Davis, KM, Hall, LL, Simeonsson, JB and Thomas, D.J. A novel *S*-adenosyl-1-methionine: arsenic(III) methyltransferase from rat liver cytosol. **Journal of Biological Chemistry** 277:10795-10803, 2002.

Little, SB, Rabinowitz, JR, Wei, P and Yang, W A. comparison of calculated and experimental geometries for crowded polycyclic aromatic hydrocarbons and their metabolites. **Polycyclic Aromatic Compounds** 14:53 - 61, 1999.

Liu, J, Wang, G and Pope, C. Differential effects of organophosphates on acetylcholine release and muscarinic autoreceptors. **Toxicological Sciences** 60:242, 2001 (NCER).

Lopez, JR, Linares, N, Pessah, IN, Allen, PD and Links, S. Enhanced response to caffeine and 4cmc in malignant hyperthermia susceptible muscle is related in part to chronically elevated resting [Ca2+]i. American Journal of Physiology-Cell Physiology, in press, 2006 (NCER).

MacPhail, R and Jarema, KA. Prospects on behavioral studies of marine and freshwater toxins. **Neurotoxicology and Teratology** 27: 695-699, 2005

MacPhail, R, Farmer, J, Jarema, K and Chernoff, N. Nicotine effects on the motor activity of mice exposed prenatally to the nicotinic agonist anatoxin-a. **Neurotoxicology and Teratology** 27: 593-598, 2005.

Madden, MC, Richards, JH, Dailey, LA, Hatch, G and Ghio, AJ. Effect of ozone on diesel exhaust particle toxicity in rat lung. **Toxicology and Applied Pharmacology** 168:140-148, 2000.

Mass, MJ, Tennant, A, Roop, BC, Cullen, WR, Styblo, M, Thomas, DJ and Kligerman, AD. Methylated trivalent arsenic species are genotoxic. **Chemical Research in Toxicology** 14: 355-361, 2001.

Mass, MJ, Tennant, A, Roop, BC, Cullen, WR, Styblo, M, Thomas, DJ and. Kligerman, AD. Methylated trivalent arsenic species may be the proximate or ultimate genotoxic forms of arsenic. **Chemical Research in Toxicology** 14: 355 -361, 2001.

McDorman, EW, Collins, B and Allen, J. Dietary folate deficiency enhances induction of micronuclei by arsenic in mice. **Environmental and Molecular Mutagenesis** 40:71-77, 2002.

McDorman, KS and Wolf, DC. Use of the spontaneous Tsc2 knockout (Eker) rat model of hereditary renal cell carcinoma for the study of renal carcinogens. **Toxicologic Pathology** 30:675-680, 2002.

McDorman, KS, Chandra, S, Hooth, MJ, Hester, SD and Wolf DC. Induction of transitional cell hyperplasia in the urinary bladder and aberrant crypt foci in the colon of rats treated with individual and a mixture of drinking water disinfection by-products. **Toxicologic Pathology** 31:235-242, 2003.

McDorman, KS, Hooth, MJ, Starr, TB and Wolf DC. Analysis of preneoplastic and neoplastic renal lesions in Tsc2 mutant Long-Evans (Eker) rats following exposure to a mixture of drinking water disinfection by-products. **Toxicology** 187:1-12, 2003.

Medinsky, MA, Wolf, DC, Cattley, RC, Wong, B, Janszen, DB, Farris, GM, Wright, GA and Bond ,JA. Effects of a thirteen-week inhalation exposure to ethyl tertiary butyl ether on Fisher-344 rats and CD-1 mice. **Toxicological Sciences** 51:108-118, 1999.

Merrill, EA, Clewell, RA, Robinson, PJ, Jarabek, AM, Gearhart, J, Sterner, TR and Fisher, JW. PBPK model for iodide and perchlorate kinetics and perchlorate-induced inhibition of radioiodide uptake in humans. **Toxicological Sciences** 83: 25-43, 2005.

Miles, AM, Singer, PC, Ashley, D, Lynberg, M, Mendola, P and Nuckols, J. Comparison of trihalomethanes in tap water with levels measured in blood samples. **Environmental Science and Technology** 36: 1692-98, 2002.

Mo J, Xia, Y, Wade, T, Schmitt, M, Le, X, Dang, R and Mumford, J. Chronic Arsenic Exposure and Oxidative Stress: OGG1 Expression and Arsenic Exposure, Nail Selenium, and Skin Hyperkeratosis in Inner Mongolia. **Environmental Health Perspectives**, in press, 2006.

Morgan, DL, Little, PB, Herr, D, Moser, V, Collins, B, Herbert, R, Johnson, GA, Maronpot, RR, Harry, GJ and Sills, RC. Neurotoxicity of carbonyl sulfide in F344 rats following inhalation exposure for up to 12 weeks. **Toxicology and Applied Pharmacology** 200: 131-145, 2004.

Mori, C, Allen, J, Dix, D, Nakamura, N, Fujioka, M, Toshimori, K and Eddy, E. Completion of meiosis is not required for acrosome formation in HSP70-2 null mice. **Biology of Reproduction** 1:813-822, 1999.

Moser, VC, Phillips, PM, Levine, AB, McDaniel, KL, Sills, RC, Jortner, BS and Butt, MT. Neurotoxicity produced by dibromoacetic acid in drinking water of rats. **Toxicological Sciences** 79: 112-122, 2004.

Moser, VC, Phillips, PM, McDaniel, KL, Marshall, RS, Hunter, DL and Padilla, S. Neurobehavioral effects of chronic dietary and repeated high-level spike exposure to chlorpyrifos in rats. **Toxicological Sciences** 86: 375-386, 2005.

Moyer, CF Kodavanti, UP, Haseman, JK, Moronpot, RR, Costa, D and Nyska, A. A systemic vascular disease in male B6C3F1 mice exposed to particulate matter by inhalation: studies conducted by the National Toxicology Program. **Toxicologic Pathology** 30:427-434, 2002.

Mudipalli, A, Owen, RD and Preston, RJ. The effect of arsenicals on ultraviolet-radiationinduced growth arrest and related signaling events in human keratinocytes. **International Journal of Oncology** 27: 769-778, 2005.

Mundy, WR and Freudenrich, TM. Apoptosis of cerebellar granule cells induced by organotin compounds found in drinking water: Involvement of MAP kinases. **NeuroToxicology** 27: 71-80, 2006.

Mundy, WR, Shafer, TJ, Tilson, HA and Kodavanti, PR. Extracellular calcium is required for the polychlorinated biphenyl-induced increase of intracellular free calcium levels in cerebellar granule cell culture. **Toxicology** 136: 27-39, 1999.

Mundy WR, Freudenrich TM, Crofton KM and DeVito MJ. Accumulation of PBDE-47 in primary cultures of rat neocortical cells. **Toxicological Sciences** 821:164-169, 2004.

Nadadur, SS and Kodavanti, UP. Altered rat lung gene expression profile in response to particulate matter (PM) and its constituent metal exposure. Journal of Toxicology and Environmental Health 65:1333-1350, 2002.

Nadadur, SS, Costa, DL, Slade, R, Silbojoris, R and Hatch, GE. Acute ozone-induced differential gene expression profiles in rat lung. **Environmental Health Perspectives** 113: 1717-1722, 2005.

Narotsky, MG, Best, DS, Guidici, DL and Cooper, RL. Strain comparisons of atrazine-induced pregnancy loss in the rat. **Reproductive Toxicology** 15:61-69, 2001.

Nesnow, S, Davis, C, Padgett, W, George, M, Lambert, G, Adams L and King, L. Biotransformation and DNA adduct formation of 8,9-dihydroxy-8,9-dihydrodibenzo[*a*,*l*]pyrene by induced rat liver and human CYP1A1 and CYP1B1 microsomes. **Polycyclic Aromatic Compounds** 14/15:281-190, 1999.

Nesnow, S, Cavanee, W, Gilmer, T, Kaufman, D, Slaga, T, Hohman, R, Bishop, J, Poirier, M, Harris, C, Trump, B, Yuspa, S, Pfeifer, A, Sherman, M and Tennant, R. Thirteenth Aspen Cancer Conference: Workshop On Mechanisms Of Toxicity and Carcinogenesis. **Molecular Carcinogenesis** 25: 99-106, 1999.

Nesnow, S, Davis, C, Padgett, W, Adams, L, Yacopucci, M and King, L. 8,9-Dihydroxy-8,9dihydrodibenzo[*a*,*l*]pyrene is a potent morphological cell transforming agent in C3H10T2Cl8 mouse embryo fibroblasts in the absence of detectable stable covalent DNA adducts. **Carcinogenesis** 21:1253-1257, 2000.

Nesnow, S, Davis C, Pimentel, M, Mass, M, Nelson, G and JA. Ross. Interaction analyses of binary mixtures of carcinogenic PAHs using morphological cell transformation of C3H10T2Cl8 mouse embryo fibroblasts in culture. **Polycyclic Aromatic Compounds** 21:31-42, 2000.

Nesnow, S, Davis, C, Desai, D and Amin, S. Evaluation of Benzo[*c*]chrysene Dihydrodiols in the morphological cell transformation of mouse embryo fibroblast C3H10T2Cl8 cells. **Polycyclic Aromatic Compounds** 21: 203-214, 2000.

Nesnow, S, Davis, C, Nelson, G, Lambert, G, Padgett, W, Pimentel, M, Tennant, R, Kligerman,, A and Ross, JA. Comparison of the genotoxic activities of the K-tegion dihydrodiol of benzo[*a*]pyrene with benzo[*a*]pyrene in mammalian cells: Morphological cell transformation; DNA damage; and stable covalent DNA adducts. **Mutation Research** 521:91-102, 2002.

Nesnow, S, Roop, B, Lambert, G, Kadiiska, M, Mason, R, Cullen, W and Mass, M. DNA damage induced by methylated trivalent arsenicals is mediated by reactive oxygen species. **Chemical Research in Toxicology** 15:1627-1634, 2002.

Newman, JW, Morisseau, C and Hammock, BD. Epoxide hydrolases: Their roles and interactions with lipid metabolism. **Progress in Lipid Research** 44:1-51, 2005 (NCER).

Noriega, NC, Ostby, J, Lambright, C, Wilson, V and Gray, LE. Late gestational exposure to the fungicide prochloraz delays the onset of parturition and causes reproductive malformations in male but not female rat offspring. **Biology of Reproduction** 72: 1324-1235, 2005.

Norwood, JJr, Ledbetter, AD, Doerfler, DL and Hatch, GE. Residual oil fly ash inhalation in guinea pigs: Influence of ascorbate and glutathione depletion. **Toxicological Sciences** 61: 144-153, 2001.

Nyska, A, Hester, SD, Cooper, RL, Goldman, J, Stoker, T, House, D and Wolf DC. Single or group housing-altered hormonal physiology and affected pituitary and interstitial cell kinetics. **Journal of Toxicological Sciences** 27:449-457, 2002.

Okhuysen, PC, Chappell, CL, Crabb, JH, Sterling, CR and DuPont, HL. Virulence of three distinct *Cryptosporidium parvum* isolates for healthy adults. **Journal of Infectious Diseases** 180:1275-1281, 1999 (NCER).

Ooortgiesen, M, Veronesi, B, Eichenbaum, G and Simon, SA. Residual oil fly ash (ROFA) and negatively charged synthetic polymers activate bronchial epithelial cells and nociceptive neurons. American Journal of Physiology: Lung cellular and Molecular Physiology 278:L683-L695, 2000.

Ostermeier GC, Dix, D, Miller, D, Khatri, P and Krawetz, S. Spermatozoal RNA profiles of normal fertile men.1 Lancet 360: 772-777, 2002.

Otto D, Li YH, Xia YJ, He LL, Ning ZX, Wu KG, Zhao, BX, Hudnell HK, Kwok R, Mumford J, Gelleer A, Wade T. Neurosensory effects of chronic exposure to arsenic via drinking water in Inner Mongolia: II. Vibrotactile and visual function. **Journal of Water and Health** 4:39-48, 2006.

Otto D, Xia Y, Li Y, Wade T, Telech J and Mumford J. Neurosensory effects of chronic human exposure to arsenic associated with body burden and environmental measures. **International Journal of Environmental Health Research**, in press, 2006.

Padgett, W, Davis, C, Lambert, G, Nelson, G, Ross, J, Yacopucci M and Nesnow, S. Biotransformation of *trans*-4,5-Dihydroxy-4,5-dihydrobenzo[*a*]pyrene to Benzo[*a*]pyrene-bis-dihydrodiols and DNA adducts by induced rat liver microsomes. **Chemical Research in Toxicology** 13:1125-1134, 2000.

Padilla, S, Marshall, RS, Hunter, DL, Oxendine, S, Moser, VC, Southerland, SB and Mailman, RB. Neurochemical effects of chronic dietary and repeated high-level acute exposure to chlorpyrifos in rats. **Toxicological Sciences** 88: 161-171, 2005.

Paige, RC, Brody, SL, Fanucchi, MV and Plopper, CG. Failure of ciliogenesis in HFH-4 transcription factor deficient mice is correlated with the absence of ezrin. **American Journal of Respiratory and Critical Care Medicine** 161: A561, 2000 (NCER).

Paolini, C, Fessenden, JD, Pessah, IN, and Franzini-Armstrong, R. Evidence for conformational coupling between two calcium channels. **Proceedings of the National Academy of Sciences U S A** 101:12748-12752, 2004 (NCER).

Parran, D, Barone, S and Mundy, W. Methylmercury inhibits TRK-a signaling through the ERLK1/2 cascade after NGF stimulation of PC12 cells. **Developmental Brain Research** 149:53-61, 2004.

Peng, B, Sharma, R, Mass, MJ and Kligerman, AD. Induction of genotoxic damage is not correlated with the ability to methylate arsenite in vitro in the leukocytes of our mammalian species. **Environmental and Molecular Mutagenesis** 39: 323-332, 2002.

Perantie, D, Clark, KB, Wilson, VL and Lee, WR. Effect of mutagen induced cell lethality on dose response relationship. **Environmental and Molecular Mutagenesis** 35:47, 2000 (NCER).

Pereira, MA, Kramer, PM, Conran, PB and Tao, L. Effect of chloroform on dichloroacetic acid and trichloroacetic acid-induced hypomethylation and expression of the c-myc gene and on their promotion of liver and kidney tumors in mice. **Carcinogenesis** 22:1511-1519, 2001 (NCER).

Perera, FP and Weinstein, IB. Molecular epidemiology: Recent advances and future directions. **Carcinogenesis** 21:517–524, 2000 (NCER).

Perera, FP. Molecular epidemiology: On the path to prevention? **Journal of the National Cancer Institute** 92:602–612, 2000 (NCER).

Pessah IN, Hansen LG, Albertson TE, Garner CE, Ta TA, Do Z, Kim KH, and Wong PW. Structure-activity relationship for non-coplanar polychlorinated biphenyl congeners toward the ryanodine receptor-Ca2+ channel complex type 1 (RyR1). **Chemical Research in Toxicology** 19: 92-101, 2006 (NCER).

Pope, CN. Organophosphorus pesticides: do they all have the same mechanism of toxicity. **Journal of Toxicology and Environmental Health-Part B-Critical Reviews** B2:101-121, 1999 (NCER).

Pope, C and Liu, J. Nonesterase actions of anticholinesterase insecticides. **Neurotoxicology Handbook** 1:29-43, 2001 (NCER).

Prahalad, AK, Soukup, J, Inmon, J, Willis, R, Ghio, A, Becker S and Gallagher, J. Ambient Air Particles: Effects on cellular oxidant radical generation in relation to particulate elemental chemistry. **Toxicology and Applied Pharmacology** 158: 81-91, 1999.

Prahalad, A, Manchester, D, Hsu, I, Inmon, J and Gallagher, J. Human placental microsomal activation and DNA adduction by air pollutants. **Environmental Contamination and Toxicology** 62:93-100, 1999.

Prahalad AK, Inmon J, Ghio AJ and Gallagher JE. Enhancement of 2'-deoxyguanosine hydroxylation and DNA damage by coal and oil fly ash in relation to particulate metal content and availability. **Chemical Research and Toxicology** 13:1011-1019, 2000.

Prahalad AK, Inmon J, Dailey L, Madden M, Ghio, A and Gallagher J. Air pollution mediated

oxidative DNA damage in cell free systems and Human Airway Epithelial cells in relation to particle metal content and bioreactivity. **Chemical Research and Toxicology** 14:879-897, 2001.

Preston, RJ. Chapter 6. Chromosome Aberrations Induced by Low Doses and Low-Dose Rates of Ionizing Radiation, NCRP Report, 136:50-80, 2001.Putzrath, RM and Wilson, JD. Fundamentals of health risk assessment. Use, derivation, validity and limitations of safety indices. **Risk Analysis** 19:231-247, 1999.

Preston, RJ. Cytogenetic effects of ethylene oxide, with an emphasis on population Monitoring. **Critical Reviews in Toxicology** 29:263-282, 1999.

Preston, RJ. Recent advances in genetic toxicology and their relevance to cancer risk assessment, **Inhalation Toxicology** 11:555-557, 1999.

Preston, JR. Response to Klaunig, J.E. et al, Epigenetic mechanisms of chemical carcinogenesis: Commentary. **Human and Experimental Toxicology** 19:569-570, 2000.

Preston, RJ. Summary and conclusions for 21st century biodosimetry: Quantifying the past and predicting the future. **Radiation Protection and Dosimetry** 97:75-77, 2001.

Preston, RJ. Quantitation of molecular endpoints for the dose-response component of cancer risk assessment. **Toxicologic Pathology** 30:112-116, 2002.

Preston, RJ. Molecular epidemiology: Potential impacts on the assessment of public health. **Mutation Research** 543:121-124, 2003.

Preston, JR. LNT is the best we can do – today. **Journal of Radiological Protection** 23:263-268, 2003.

Preston, RJ. 26th Lauriston S. Taylor Lecture: Developing mechanistic data for incorporation into cancer and genetic risk assessments: Old problems and new approaches. **Health Physics** 85:4-22, 2003.

Preston, RJ. Radiation biology: Concepts for radiation protection. Health Physics 87:3-14, 2004.

Preston, RJ. Children as a sensitive subpopulation for the risk assessment process. **Toxicology and Applied Pharmacology** 199:132-141, 2004.

Preston. RJ. Bystander effects, genomic instability, adaptive response and cancer risk assessment for radiation and chemical exposures. **Toxicology and Applied Pharmacology** 207: 550-556, 2005.

Preston, RJ. Mechanistic data and cancer risk assessment: The need for quantitative molecular endpoints. **Environmental and Molecular Mutagenesis** 45: 214-221, 2005.

Putz, O, Schwartz, CB, Kim, S, LaBlanc, GA, Cooper, RL and Prins, GS. Neonatal low-and high dose exposure to estradiol benzoate in the male rat: I. Effects on the prostate gland. **Biology of Reproduction** 65:1496-1505, 2001.

Putz, O, Schwartz, CB, LaBlanc, GA, Cooper, RL and Prins, GS. Neonatal low-and high-dose exposure to estradiol benzoate in the male rat: II. Effects on male puberty and the reproductive tract. **Biology of Reproduction** 65:1506-1517, 2001.

Putzrath, R.M. Reducing uncertainty of risk estimates for mixtures of chemicals within regulatory constraints. **Regulatory Toxicology and Pharmacology** 1:44-52, 2000.

Putzrath, RM. Inaccurate Models for Mixtures. **Environmental Health Perspectives** 109:A64, 2001.

Pyne, GJ, DeGrauw, TJ, Cecil, KM, Lyons, M, Ishida, Y and Clark, JF. The presence of normal creatine in the muscle of a patient with a mutation in the creatine transporter: A case study. **Molecular and Cellular Biochemistry,** in press (NCER).

Rabinowitz, JR, Little, SB and Gifford, EM. The interactions between chlorinated dioxins and a positively charged molecular probe: A new molecular interaction potential. **Journal of Computational Chemistry** 12:121-134, 1999.

Rappaport, SM and Tornero-Velez, R. Refinements to physiologically-based pharmacokinetic model for styrene. **Toxicology Letters** 144: 271-272, 2003.

Recio, L, Donner, M, Abernethy, D, Pluta, L, Steen, A, Wong, B, James, A and Preston RJ. In Vivo mutagenicity and mutation spectrum in the bone marrow and testes of B6C3F1 LacI transgenic mice following inhalation exposure to ethylene oxide. **Mutagenesis** 19: 215-222, 2004.

Reddy, SPM, Adiseshaiah P and Voung H. BMK1 (ERK5) regulates squamous differentiation marker, SPRRIB transcription in clara-like H441 cells. **American Journal of Respiratory Cell and Molecular Biology** 27:64-70, 2002 (NCER).

Rayner, JL, Wood, C and Fenton, SE. Exposure parameters necessary for delayed puberty and mammary gland development in Long-Evans rats exposed in utero to atrazine. **Toxicology and Applied Pharmacology** 195:23-34, 2004.

Richburg, JH, Johnson, K, Schoenfeld, HA, Meistrich, ML and Dix, DJ. Defining the cellular and molecular mechanisms of toxicant action in the testis. **Toxicology Letters** 135: 167-183, 2002.

Rockett, JC. Macroresults through microarrays. Drug Discovery Today 7: 804-805, 2002.

Rockett, JC. Use of genomic data in risk assessment. Genome Biology 3:REPORTS4011, 2002.

Rockett, JC. Probing the nature of microarray-based oligonucleotides. **Drug Discovery Today** 8: 389, 2003.
Rockett, JC. To confirm or not to conform (microarray data)- that is the question. **Drug Discovery Today** 8: 343, 2003.

Rockett, JC and DJ Dix. DNA arrays: technology, options and toxicological applications. **Xenobiotica** 30:155-177, 2000.

Rockett, JC, Lynch, CD and Buck, GM. Biomarkers for assessing reproductive development and health: Part 1: Pubertal development. **Environmental Health Perspectives** 112: 105-112, 2004.

Rockett JC, Luft, JC, Garges, J, Krawetz, SA, Hughes, M and Dix, Dix. Development of a 950gene DNA array for examining gene expression patterns in mouse testis. **Genome Biology** 2:research0014.1-0014.9, 2001.

Rockett JC, Mapp, F, Garges, J, Luft, K. Mori, C and Dix, D. The effects of hyperthermia on spermatogenesis, apoptosis, gene expression and fertility in adult male mice. **Biology of Reproduction** 65, 229-239, 2001.

Rockett JC, Kavlock, R, Lambright, C, Parks, L, Schmid, J, Wilson, V, Wood, C and Dix, D. DNA arrays to monitor gene expression in rat blood and uterus following 17-beta-estradiol exposure – biomonitoring environmental effects using surrogate tissues. **Toxicological Sciences** 69: 49-59, 2002.

Rockett, JC, Buck, GM, Lynch, CD and Perreault, SD. The value of home-based collection of biospecimens in reproductive epidemiology. **Environmental Health Perspectives** 112: 94-104, 2004.

Rockett JC, Burczynski, M, Fornace Jr, A, Herrmann, P, Krawetz, S and Dix, D. Surrogate tissue analysis: monitoring toxicant exposure and health status of inaccessible tissues through the analysis of accessible tissues and cells. **Toxicology and Applied Pharmacology** 194:189-199, 2004.

Rockett JC, Patrizio, P, Schmid, J, Hecht, N and Dix, D. Gene expression patterns associated with infertility in humans and rodent models. **Mutation Research** 549:225–240, 2004.

Roegge, CS, Morris, JR, Villareal, S, Wang, VC, Powers, BE, Klintsova, AY, Greenough, WT, Pessah, IN and Schantz, SL. Purkinje cell and cellular effects following developmental exposure to PCBs and/or MeHg. **Neurotoxicology and Teratology** 28: 74-85, 2006 (NCER).

Roegge, CS, Wang, VC, Powers, BE, Klintsova, AY, Villareal, S, Greenough, WT and Schantz, SL. Motor impairment in rats exposed to PCBs and methylmercury during early development. **Toxicological Sciences** 77:315-324, 2004 (NCER).

Romieu, I, Sienra-Monge, JJ, Ramirez-Aguilar, M, Tellez-Rojo, MM, Moreno-Macias, H, Reyes-Ruiz, NI, Rio-Navarro, BE, Ruiz-Navarro, XM, Hatch, GE, Slade, R and Hernandez-Avila, M. Antioxidant supplementation and lung functions among asthmatic children exposed to high levels of air pollutants. **American Journal of Respiration and Critical Care Medicine**  166:703-709, 2002.

Rosen, MB, Wilson, VS, Schmid, JE and Gray, LE. Gene expression analysis in the ventral prostate of rats exposed to vinclozolin or procymidone. **Reproductive Toxicology** 19: 367-379, 2005.

Ross JA and Nesnow, S. Polycyclic aromatic hydrocarbons: Correlations between DNA adducts and *Ras* Oncogene mutations. **Mutation Research** 424:155-166, 1999.

Ross, MK, Mathison, BH, Said, B and Shank, RC. 5-Methylcytosine in CpG sites and the reactivity of nearest neighboring guanines toward the carcinogen aflatoxin B1-8,9-epoxide. **Biochemical and Biophysical Research Communications** 254:114-119, 1999 (NCER).

Ross, PS and Birnbaum, LS. Integrating human and ecological risk assessment: A case study of Persistent Organic Pollutants(POPs) in humans and wildlife. **Journal of Human and Ecological Risk Assessment** 9:303-324, 2003.

RothHarer, A, Lilenthal, H, Winterhoff, H, Bubser, M, Kronthaler, U, Mundy, W, Ward, T, Schmidt, W and Winneke, G. Neurotransmitter concentrations and binding at dopamine receptors in rats after maternal maternal exposure to 3,4,3',4'-tetracholobiphenyl: the role of reduced thyroid hormone concentrations. **Environmental Pharmacology Toxicology** 9:103-115, 2001.

Rowsey, PJ, Metzger, BL, Carlson, J and Gordon, CJ. Effects of chronic exercise conditioning on thermal responses to lipopolysaccharide and turpentine abscess in female rats. **Archives of Toxicology** 80: 81-87, 2006.

1Saghir, SA, Hansen, LG, Holmes, KR and Kodavanti, PRS. Differential and non-uniform tissue and brain distribution of two distinct <sup>14</sup>C-hexachlorobiphenyls in weanling rats. **Toxicological Sciences** 54: 60-70, 2000.

Salama, J, Chakraborty, TR, Ng, L and Gore, AC. Effects of polychlorinated biphenyls (PCBs) on estrogen receptor-beta expression in the anteroventral periventricular nucleus. **Environmental Health Perspectives** 110:1278-1282. 2003 (NCER).

Salomons, GS, van Dooren, SJ, Verhoeven, NM, Marsden, D, Schwartz, C, Cecil, KM, DeGrauw, TJ and Jakobs, C. Cross linked creatine transporter defect an overview. **Journal of Inherited Metabolic Diseases** 26:309-318, 2003 (NCER).

Samet, JM, Hatch, GE, Horstman, D, Steck, SE, Arab, L, Bromberg, PA, Levine, M, McDonnell, WF and Devlin, RB. Effect of antioxidant supplementation on ozone-induced lung injury in human subjects. American Journal of Respiration and Critical Care Medicine 164:819-825, 2001.

Sams, RL II, Blaydes, B, Warbritton, A, Lomax, LG, Bucci, TJ and Delclos, K. Differences in the response to oxidative stress and mutant frequency in CD (Sprague-Dawley) and Fischer 344

rats due to an induced inflammatory response. **Environmental and Molecular Mutagenesis** 35: 336-342, 2000.

Sams, RL II, Couch, LH, Miller, BJ, Okerberg, C, Wamer, WG, Beer, JZ and Howard, PC. Basal cell proliferation rates in female SKH-1 mice treated with alpha- and beta-hydroxy acids. **Toxicology and Applied Pharmacology** 175:76-82 2001.

Sams, RL II, Couch, LH, Miller, BJ, Okerberg, C, Wamer, WG, Beer, JZ and Howard, PC. The effect of glycolic and salicylic acid on the induction of edema in SKH-1 mice due to simulated solar light. **Toxicology and Applied Pharmacology** 184:136-143, 2002.

Sams, RL II, Couch, LH, Miller, BJ, Okerberg, C and Howard, PC. Spectral-based determination of edemal doses of light from multiple sources using female SKH-1 mice. **Regulatory Research Perspectives,** in press.

Sarangapani, R, Teeguarden, JG, Gentry, PR, Clewell, HJ, Barton, HA and Bogdanffy, MS. Interspecies dose extrapolation for inhaled dimethyl sulfate: a PBPK model-based analysis using nasal cavity N7-methylguanine adducts. **Inhalation Toxicology** 16: 593-605, 2004.

Sen, B, Wolf ,DC and Hester, SD. The effect of an inherited cancer susceptibility gene knockout mutation in the transcriptional profile of the kidney in Tsc2 mutant Long-Evnas (Eker) rats. **Mutation Research** 549:213-224, 2004.

Sen, B, Wang, A, Hester, SD, Robertson, JL and Wolf, DC. Gene expression profiling of responses to dimethylarsinic acid in female F344 rat urothelium. **Toxicology** 215: 214-226, 2005.

Shiao ,YH, Kamata, SI, Li, LM, Hooth, MJ, Li, LM, DeAngelo, AB, Anderson, LM and Wolf DC. Mutations in the VHL gene from potassium bromate-induced rat clear cell renal tumors. **Cancer Letters** 187:207-214, 2002.

Schecter, A, Papke, O, Tung, K-C, Staskal, Dand Birnbaum, L. Polybrominated diphenyl ethers (PBDEs) contamination of United States food. **Environmental Health Perspectives** 38: 5306-5311, 2004.

Schecter, A, Pavuk, M, Papke, O, Ryan, JJ, Birnbaum, L and Rosen, R. Polybrominated diphenyl ethers (PBDEs) in US mother's milk. **Environmental Health Perspectives** 111:1723-1729, 2003.

Schecter, A, Birnbaum, L, Ryan, JJ and Constable, JD. Dioxins: An overview. **Environmental Research**, in press, 2006.

Schreinemachers, D. Cancer mortality in four northern wheat-producing states. **Environmental Health Sciences** 108:873-881, 2000.

Seely, JC, Haseman, J, Nyska, A, Wolf, DC, Everitt, JI, and Hailey JR. The effect of chronic progressive nephropathy on the incidence of renal tubule neoplasms in the F344 rat. **Toxicologic** 

Pathology 30:681-686, 2002.

Setzer, RW, Lau, C, Mole, ML, Copeland, MF, Rogers, JM and Kavlock, RJ. Toward a biologically based dose-response model for developmental toxicity of 5-fluorouracil in the rat: a mathematical construct. **Toxicological Sciences** 59: 49-58, 2001.

Shafer, TJ and Meyer, DA. Effects of pyrethroids on voltage-sensitive calcium channels: a critical evaluation of strengths, weaknesses, data needs, and relationship to assessment of cumulative neurotoxicity. **Toxicology and Applied Pharmacology** 196:303-18, 2004.

Shafer, TJ, Bushnell, PJ, Benignus, VA and Woodward, JJ. Perturbation of voltage-sensitive Ca+2 channel function by volatile organic solvents. Journal of Pharmacology and Experimental Therapeutics 315: 1109-1119, 2005.

Sharma, R, Derr-Yellin, EC, House, DC and Kodavanti, PRS. Age-dependent effects of Aroclor 1254 on calcium uptake by subcellular organelles in selected brain regions of rats. **Toxicology** 156:13-25, 2000.

Sharma, R and Kodavanti, PRS. In vitro effects of polychlorinated biphenyls and hydroxy metabolites on nitric oxide synthases in rat brain. **Toxicology and Applied Pharmacology** 178: 127-136, 2002

Shaughnessy, DT, Setzer, RW and DeMarini, DM. Effect of the antimutagens vanillin and cinnamaldehyde on the spontaneous mutation spectra of Salmonella TA104. **Mutation Research** 480–481: 55–69, 2001.

Sidhu, JS, Ponce, RA, Vredevoogd, MA, Yu, X, Gribble, E, Hong, SW, Schneider, E and Faustman, EM. Cell cycle inhibition by sodium arsenite in primary embryonic rat midbrain neuroepithelial cells. **Toxicological Sciences** 89:475-484, 2006 (NCER).

Simeonsson, JB, Elwood, SA, Ezer, M, Pacquette, HL, Swart, DJ, Beach, HD and Thomas, DJ. Development of ultratrace analytical techniques for arsenic measurements. **Talanta** 58: 189-199, 2002.

Slezak, MP, Diliberto, JJ and Birnbaum, LS. 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin-mediated oxidative stress in CYP1A2 knockout (CYP1A2-/-) mice. **Biochemical and Biophysical Research Communications** 264:376-379, 1999.

Slezak, BP, Hatch, GG, DeVito, MJ, Diliberto, JJ, Slade, R, Crissman, K, Hassoun, E and Birnbaum, LS. Oxidative stress in female B6C3F1 mice following acute and subchronic exposure to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD). **Toxicological Sciences** 54:390-398, 2000.

Slezak, BP, Hamm, JT, Reyna, J,Hurst, CH, and Birnbaum, LS. 2,3,7,8- Tetrachlorodibenzo-pdioxin (TCDD) mediated oxidative stress in male rat pups following perinatal exposure. Journal of Biochemical and Molecular Toxicology 16:49-52, 2002

Slikker W Jr, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB, David RM,

Doerrer NG, Dorman DC, Gaylor DW, Hattis D, Rogers JM, Setzer RW, Swenberg JA and Wallace, K. Dose-dependent transitions in mechanisms of toxicity: case studies. **Toxicology and Applied Pharmacology** 201:226-294, 2004.

Slikker W Jr, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB, David RM, Doerrer NG, Dorman DC, Gaylor DW, Hattis D, Rogers JM, Woodrow Setzer R, Swenberg JA and Wallace, K. Dose-dependent transitions in mechanisms of toxicity. **Toxicology and Applied Pharmacology** 201:203-225, 2004.

Smialowicz, RJ, Burgin, D, Williams, WC, Diliberto, JJ, Setzer, RW and Birnbaum, LS. CYP1A2 is not required for 2,3,7,8-tetrachlorodibenzo-p-dioxin-induced immunosuppression. **Toxicology** 197: 15-22, 2004.

Smith EG and Gordon, CJ. The effects of chlorpyrifos on blood pressure and temperature regulation in spontaneously hypertensive rats. **Basic and Clinical Pharmacology and Toxicology** 96: 503-511, 2005.

Smith, KR, Uyeminami, D, Chang, L.-Y, Kodavanti, UP, Crapo, JD and Pinkerton, KE. Mn(III) tetrakis -2,5-diehyl imidazolium porphyrin (AEOL 10150) inhibits tobacco smoke-induced pulmonary inflammation in spontaneously hypertensive rats. Journal of Free Radical Biology and Medicine 33: 222-243, 2002.

Smithwick, LA, Smith, A, Quensen, III, Stack, A, London, L and Morris, PJ. Inhibition of LPSinduced splenocyte proliferation by ortho-substituted polychlorinated biphenyl congeners. **Toxicology** 188:319-333, 2003 (NCER).

Solhaug, A, Øvrebøb, S, Låg, M, Schwarze, P, Nesnow, Sand Holme, J. Role of cell signaling in B[a]P-induced apoptosis: Characterization of unspecific effects of cell signaling inhibitors and apoptotic effects of B[a]P metabolites. **Chemico-Biological Interactions** 151: 101-109, 2005.

Spink, D, Wu, SJ, Spink, BC, Katz, BH, Fasco, MJ and Kaminsky, LS. Effects of benzo[a]pyrene and arsenite on CYP1A1 and CYP1B1 mRNA levels in T-47D human breast cancer cells: determination by a branched DNA assay. **Toxicological Sciences** 2001 (NCER).

Spink, DC, Katz, BH, Hussain, MM, Spink, BC, Wu, S, Liu, N, Pause, R and Kaminsky, L. Induction of CYP1A1 and CYP1B1 in T-47D human breast cancer cells by benzo[a]pyrene is diminished by arsenite. **Drug Metabolism and Disposition** 30:262-269, 2002 (NCER).

Stack, A, Altman-Hamamdzic, S, Morris, PJ and London, L. Polychlorinated biphenyl mixtures (Aroclors) inhibit LPS-induced murine B-lymphocyte proliferation in vitro. **Toxicology** 139:137-154, 1999 (NCER).

Staskal, D, Diliberto, JJ, Devito, M and Birnbaum, LS. Toxicokinetics of BDE 47 in female mice: Effect of dose, route of exposure, and time. **Toxicological Sciences** 83: 213-225, 2005.

Staskal, DF, Diliberto, JJ, DeVito, MJ and Birnbaum, LS. Inhibition of human and rat CYP1A2 by TCDD and dioxin-like chemicals. **Toxicological Sciences** 84: 225-231, 2005.

Staskal, DF, Diliberto, JJ and Birnbaum, LS. Impact of repeated exposure on the toxicokinetics of BDE47 in mice. **Toxicological Sciences** 89: 380-385, 2006.

Staskal, DF, Diliberto, JJ and Birnbaum, LS. Disposition of BDE47 in developing mice. **Toxicological Sciences** 90:309-316, 2006.

Stiles, M and Pope, CN. In vitro and in vivo effects of chlorpyrifos on cardiac muscarinic receptors. **Toxicological Sciences** 54:341, 2000 (NCER).

Stoker, TE, Robinette, CL, Britt, BH and Cooper, RL. Prepubertal exposure to compounds that increase prolactin in the male rat: Effects on adult prostate. **Biology of Reproduction**. 61:1636-1643, 1999.

Stoker, TE, Robinette, CL and Cooper, RL. Perinatal exposure to estrogenic compounds and the subsequent effects on the prostate of the adult rat: Evaluation of inflammation in the ventral and lateral lobes. **Reproductive Toxicology** 13: 463-472, 1999.

Stoker, TE, Robinette, CL and Cooper, RL. Maternal exposure to atrazine during lactation suppresses suckling-induced prolactin release and results in prostatitis in the adult offspring. **Toxicological Sciences** 52: 68-79, 1999.

Stoker, TE, Laws, SC, Guidici, D and Cooper, RL. The effects of atrazine on puberty and thryroid function in the male Wistar rat: An evaluation of a protocol for the assessment of pubertal development and thyroid function. **Toxicological Sciences** 58: 50-59, 2000.

Stoker, TE, Parks, LG, Gray, LE and Cooper, RL. Endocrine disrupting chemicals: Prepubertal exposures and effects on sexual maturation and thryroid activity in the male rat. A review of the EDSTAC recommendations. **Critical Reviews in Toxicology** 30: 197-252, 2000.

Stoker, TE, Goldman, JM and Cooper, RL. Delayed ovulation and pregnancy outcome: effect of environmental toxicants on the neuroendocrine control of the ovary. **Environmental Toxicology and Pharmacology** 9:117-129, 2001.

Stoker, TE, Guidici, DL, Laws, SC and Cooper, RL. The effects of atrazine metabolites on puberty and thyroid function in the male Wistar tat: An evaluation in the male pubertal protocol. **Toxicological Sciences** 67:198-206, 2002.

Stoker, TE, Jeffay, SC, Zucker, R, Cooper, RL and Perreault, SD. Abnormal fertilization is responsible for reduced fecundity following Thiram-induced ovulatory delay in the rat. **Biology of Reproduction** 68:2142-2149, 2003.

Stoker, TE, Laws, S, Crofton, KM, Hedge, J, Ferrell, JM and Cooper, R.L. Assessment of DE-71, a common commercial polybrominated diphenyl ether (PBDE) mixture, in the EDSP male and female pubertal protocols. **Toxicological Sciences** 78:144-155, 2004. Stoker, TE, Cooper, RL, Lambright, CS, Wilson, VS, Furr, J and Gray, E. In vivo and in vitro anti-androgenic effects of DE-71, a commercial polybrominated diphenyl ether (PBDE) mixture. **Toxicology and Applied Pharmacology** 207: 78-88, 2005.

Stonehuerner, L, Devlin, R and Huang, Y. Discrimination of vanadium from zinc using gene profiling in human bronchial epithelial cells. **Environmental Health Perspectives** 113: 1747-1754, 2005.

Styblo, M, Del Razo, LM, Vega, L, Germolec, DR, LeCluyse, EL, Hamilton, GA, Wang, C, Cullen, WR and Thomas, DJ. Comparative toxicity of trivalent and pentavalent inorganic and methylated arsenicals in human cells. **Archives of Toxicology** 74:289-299, 2000

Styblo, M and Thomas, DJ. Selenium modifies the metabolism and toxicity of arsenic in primary rat hepatocytes. **Toxicology and Applied Pharmacology** 172:52-61, 2001.

Sui, L and Gilbert, ME. Pre- and postnatal propylthiouracil (PTU)-induced hypothyroidism impairs synaptic transmission and plasticity in area ca1 of the neonatal rat hippocampus. **Endocrinology** 144:4195-4203, 2003.

Sui, L, Anderson, W and Gilbert, ME. Impairment in short-term but enhanced long-term synaptic potentiation and ERK activation in adult hippocampal area CA1 following developmental hypothyroidism. **Toxicological Sciences** 85:647-656, 2005.

Sun G, Crissman K, Norwood J, Richards J, Slade R and Hatch GE. Oxidative interactions of synthetic lung epithelial lining fluid with metal-containing particulate matter. **American Journal of Physiology Lung Cellular Molecular Physiology** 281:L807-15, 2001.

Sun, G, Thai, SF, Tully, DB, Lambert, GR, Goetz ,AK, Wolf, DC, Dix, DJ and Nesnow, S. Propiconazole-induced cytochrome P450 gene expression and enzymatic activities in rat and mouse liver. **Toxicology Letters** 155:277-287, 2005.

Sun, G, Thai, SF, Lambert, GR, Wolf, D, Tully, DB, Goetz, AK, George, MH, Grindstaff, RD, Dix, DJ and Nesnow, S. **Toxicology Letters**, in press, 2006.

Ta, TA, Feng, W, Molinski, TF and Pessah, IN. Hydroxylated xestospongins block inositol-1,4,5-triphospahte-induced Ca+2 release and sensitize Ca+2 induced Ca+2 release mediated by ryanodine receptors. **Molecular Pharmacology** 69: 532-538, 2006.

Tadi, K, Chang, Y, Ashok, BT, Chen, Y, Moscatello, A, Schaefer, SD, Schantz, S, Policastro, AJ, Geliebter, J and Tiwari, RK. 3,3'-Diindolylmethane, a cruciferous vegetable derived synthetic anti-proliferative compound in thyroid disease. **Biochemical and Biophysical Research Communications** 253:1019-10, 2005 (NCER).

Tao, L, Li, Y, Kramer, PM, Wang, W and Pereira, MA. Hypomethylation of DNA and the insulin-like growth factor-II gene in dichloroacetic and trichloroacetic acid-promoted mouse liver tumors. **Toxicology** 196:127-136, 2004 (NCER).

Taylor, MM., Crofton, KM and MacPhail, RC. Schedule-controlled behavior in rats exposed perinatally to the PCB mixture Aroclor 1254. **Neurotoxicology and Teratology** 24:511-518, 2002.

Teeguarden, JG and Barton, HA. Computational modeling of serum binding proteins and clearance in extrapolations across life-stages and species for endocrine active compounds. **Risk Analysis** 24: 751-770, 2004

Tennant, AH, Peng, B and Kligerman, AD. Genotoxicity studies of three triazine herbicides: in vivo studies using the alkaline single cell gel (SCG) assay. **Mutation Research** 493:1-10, 2001.

Thai, S-F, Allen, J, DeAngelo, A, George M and Fuscoe, J Detection of early gene expression changes by differential display in the livers of mice exposed to dichloroacetic acid. **Carcinogenesis** 22:1317-1322, 2001.

Thai, S-F, Allen, J, DeAngelo, A, George M and Fuscoe, J. Altered gene expression in mouse livers after dichloroacetic acid exposure. **Mutation Research** 543:167-180, 2003.

Thomas, DJ, Styblo, M,and Lin, S. The cellular metabolism and systemic toxicity of arsenic. **Toxicology and Applied Pharmacology** 176:127-144, 2001.

Thomas, DJ, Waters, SB and Styblo, M: Elucidating the pathway for arsenic methylation. **Toxicology and Applied Pharmacology** 198:319-326, 2004.

Thomas, DJ, Li, J, Waters, SB, Xing, W, Adair, BM, Drobna, Z, Devesa, V and Styblo, M. Arsenic (+3 oxidation state) methyltransferase and the methylation of arsenicals. **Experimental Biology and Medicine**, in press, 2006.

Tietge, JE, Holcombe, GW, Flynn, KM, Kosian ,PA, Korte, JJ, Anderson, LE, Wolf, DC and Degitz, SJ. Metamorphic inhibition of Xenopus laevis by sodium perchlorate: effects on development and thyroid histology. **Environmental Toxicology and Chemistry** 24: 926-933, 2005.

Tian, D, Ma, H, Feng, Z, Xia, Y, Le, X, Ni, Z, Allen, J, Collins, B, Schreinemachers D and Mumford, J. Analyses of micronuclei in exfoliated epithelial cells from individuals chronically exposed to arsenic via drinking water in Inner Mongolia, China. Journal of Toxicology and Environmental Health Pt. A, 64:473-484, 2001.

Tiffany-Castiglioni, E, Ehrich, M, Dees, L, Costa, LG, Kodavanti, PRS and Lasley, SM. Bridging the gap between in vitro and in vivo models for neurotoxicology. **Toxicological Sciences** 51:178-183, 1999 (NCER).

Tollestrup, K, Frost, FJ, Cristiani, M, McMillan, GP, Calderon, RL and Padilla, RS. Arsenic-induced skin conditions identified in southwest dermatology practices: an epidemiologic tool? **Environmental Geochemistry and Health** 27: 47–53, 2005.

Tornero-Velez, R and Rappaport, SM. Physiological modeling of the relative contributions of styrene-7,8-oxide derived from direct inhalation and from styrene metabolism to the systemic dose in humans. **Toxicological Sciences** 64: 151-161, 2001.

Tully DB, Luft, JC, Rockett, JC, Ren, H, Schmid, J, Wood, C and Dix, D. Reproductive and genomic effects in testes from mice exposed to the water disinfectant byproduct bromochloroacetic acid. **Reproductive Toxicology** 19: 353-366, 2005.

Ulrich, RG, Rockett, JC, Gibson, GG and Petitt, SD. Overview of an interlaboratory collaboration on evaluating the effects of model hepatotoxicants on hepatic gene expression. **Environmental Health Perspectives** 112:423-427, 2004.

Vakharia, D, Liu, N, Pause, R, Fasco, M, Bessette, E, Zhang, QY and Kaminsky, LS. Effect of metals on polycyclic aromatic hydrocarbon induction of CYP1A1 and CYP1A2 in human hepatocyte cultures. **Toxicology and Applied Pharmacology** 170:93-103, 2001 (NCER).

Veronesi, B. Critical update on cardiovascular and neurological effects of fine and ultrafine particles: neurodegeneration in transgenic mice exposed to particulate matter: influence of oxidative stress. **Particle and Fiber Toxicology**, in press, 2006.

Veronesi, B and Oortgiesen, M. The TRPV1 receptor: Target of toxicants and therapeutics. **Toxicological Sciences** 89:1-3, 2006.

Veronesi, B, Oortgiesen, M, Carter, J and Devlin, R. Particulate matter initiates inflammatory cytokine release by activation of capsaicin and acid receptors in a human bronchial epithelial cell line. **Toxicology and Applied Pharmacology** 154: 106-115, 1999.

Veronesi, B, Carter, JD, Devlin, RB, Simon, SA and Oortgiesen, M. Neuropeptide stimulates the release of inflammatory cytokines in a human bronchial epithelial cell line. **Neuropeptides** 33:447-456, 1999.

Veronesi, B, Oortgiesen, M, Roy, J, Carter, JD, Simon, SA and Gavett, SH. Vanilloid (capsaicin) receptors influence inflammatory sensitivity in response to particulate matter. **Toxicology and Applied Pharmacology** 169:66-76, 2000.

Veronesi, B and Oortgiesen, M. Neurogenic inflammation and particulate matter air pollutants. **NeuroToxicology** 22:795-810, 2001.

Veronesi, B and Oortgiesen, M. The TRPV1 receptor. Target of toxicants and therapeutics. **Toxicological Sciences** 89: 1-3, 2006.

Veronesi, B, de Haar, C, Roy, J and Oortgiesen, M. Particulate matter inflammation and receptor sensitivity are target cell specific. **Inhalation Toxicology** 14:159-183, 2002.

Veronesi, B, de Haar, C, Lee,L, and Oortgiesen, M. The surface charge of particulate matter relates to cytokine release in human bronchial epithelial cells (BEAS-2B). **Toxicology and Applied Pharmacology** 178:144-154, 2002.

Veronesi, B, Wei, G, Zeng, J and Oortgiesen, M. Electrostatic charge activates inflammatory vanilloid (VR1) receptors. **NeuroToxicology** 24: 463-473, 2003.

Veronesi, B, Makwana, O, Pooler, M and Chen, L. Effects of subchronic exposure To CAPs in Apo E<sup>-/-</sup> Mice: VII. Degeneration of dopaminergic neurons. **Inhalation Toxicology** 17: 235-241, 2005.

Viswanathan, S, Hammock, BD, Newman, JW, Meerarani, P, Toborek, M and Hennig, B. Involvement of CYP 2C9 in mediating the proinflammatory effects of linoleic acid in vascular endothelial cells. **Journal of the American College of Nutrition** 22:502-510, 2003.

Volcik, KA, Shaw, GM, Zhu, H, Lammer, EJ, Laurent, C and Finnell, RH. Associations between polymorphisms within the thymidylate synthase gene and spina bifida. **Birth Defects Research A Clinical Molecular Teratology** 67:924-928, 2003 (NCER).

Volcik, KA, Shaw, GM, Zhu, H, Lammer, EJ and Finnell, RH. Risk factors for neural tube defects: associations between uncoupling protein 2 polymorphisms and spina bifida. **Birth Defects Res A Clinical Molecular Teratology** 67:158-161, 2003 (NCER).

Volcik, KA, Shaw, GM, Lammer, EJ, Zhu, H and Finnell, RH. Evaluation of infant methylenetetrahydrofolate reductase genotype, maternal vitamin use, and risk of high versus low level spina bifida defects. **Birth Defects Research A Clinical Molecular Teratology** 67:154-157, 2003 (NCER).

Volcik, KA, Zhu, H, Shaw, GM, Lammer, EJ, Finnell, RH and Canfield, M. Evaluation of the jumonji gene and risk for spina bifida and congenital heart defects. **American Journal of Medical Genetics** 126:215-217, 4-15-2004 (NCER).

Volcik, KA, Zhu, H, Shaw, GM, Canfield, M, Lammer, EJ and Finnell, RH. Evaluation of the CITED2 gene and risk for spina bifida and congenital heart defects. **American Journal of Medical Genetics** 126:324-325, 4-30-2004 (NCER).

Vorderstrasse, BA, Fenton, SE, Bohn, AA, Cundiff, JA and Lawrence BP. A novel effect of dioxin: exposure during pregnancy severly impairs mammary gland differentiation. **Toxicological Sciences** 78: 248-257, 2004.

Voss, AA, Lango, J, Ernst-Russell, M, Morin, D and Pessah, IN. Identification of hyperreactive cysteines within ryanodine receptor type 1 by mass spectrometry. **Journal of Biological Chemistry** 279:34514-34520, 2004 (NCER).

Wagner, GC, Avena, N, Kita ,T, Nakashima, T, Fisher, H and Halladay, AK. Risperidone

reduction of amphetamine-induced self-injurious behavior in mice. **Neuropharmacology** 46:700 – 708, 2004 (NCER).

Wallace, D, Wallace, R and Rauh, V. Community stress, demoralization and body mass index: evidence for social signal transduction. **Social Science and Medicine** 56:2437-2478, 2003 (NCER).

Walton, FS, Waters, SB, Jolley, SL, LeCluyse, EL, Thomas, DJ and Styblo, M. Selenium compounds modulate activity of recombinant rat As<sup>III</sup> methyltransferase and methylation of arsenite by rat and human hepatocytes. **Chemical Research in Toxicology** 16:261-265, 2003

Wang, C, Jakubowski, W and DuPont, HL. Infectivity of *Cryptosporidium parvum* in healthy adults with pre-existing anti-C. parvum serum IgG. **American Journal of Tropical Medicine and Hygiene** 60:157-164, 1999 (NCER).

Wang X, Santostefano, MJ, DeVito, MJ and Birnbaum, LS. Extrapolation of a PBPK model for dioxin across dosage regimen, gender, strain and species. **Toxicological Sciences** 56:49-60, 2000.

Ward, CW, Feng, W, Tu, J, Pessah, IN, Worley, PK and Schneider, MF. Homer protein increases activation of Ca2+ sparks in permeabilized skeletal muscle. **Journal of Biological Chemistry** 279:5781-5787, 2004 (NCER).

Waters, SB, Styblo, M and Thomas, DJ. Endogenous reductants support the catalytic function of recombinant rat cyt19, an arsenic methyltransferase. **Chemical Research in Toxicology** 17:404-409, 2004.

Waters SB, Devesa, V, Fricke, M, Creed, J, Stýblo, M and Thomas, DJ. Glutathione modulates recombinant rat arsenic (+3 oxidation state) methyltransferase-catalyzed formation of trimethylarsine oxide and trimethylarsine. **Chemical Research in Toxicology** 17:1621-1629, 2004.

Wolf, DC, Goldsworthy, TL, Donner, M, Harden, R, Janszen ,D, David, CS and Everitt, JI. Promotion does not increase multiplicity of hereditary renal tumors in Eker rats. **Carcinogenesis** 21:1553-1558, 2000.

White, AC, Robinson, P, Okhuysen, PC, Lewis, DE, Shahab, I, Lahoti, S, DuPont, HL and Chappell, CL. Interferon-gamma expression in jejunal biopsies in experimental human cryptosporidiosis correlates with prior sensitization and control of oocyst excretion. **Journal of Infectious Diseases** 181:701-709, 2000 (NCER).

Widholm, JJ, Villareal, S, Seegal, RF and Schantz, SL. Spatial alternation deficits following developmental exposure to Aroclor 1254 and/or methylmercury in rats. **Toxicological Sciences** 82:557-589, 2004 (NCER).

Widholm, JJ, Clarkson, GB, Strupp, BS, Crofton, KM, Seegal, RF and Schantz, SL. Spatial reversal learning in Aroclor 1254-exposed rats: Sex-specific deficits in associative ability and

inhibitory control. Toxicology and Applied Pharmacology 174:188-98, 2001.

Wilke, M, Schmithorst, VJ and Holland, SK. Normative pediatric brain data for spatial normalization and segmentation differs from standard adult data. **Magnetic Resonance in Medicine** 50:749–757, 2003 (NCER).

Wilson, VL, Yin, X, Thompson, B, Wade, KR, Watkins, JP, Wei, Q and Lee, WR. Oncogenic base substitution mutations in circulating leukocytes of normal individuals. **Cancer Research** 60:1830-1834, 2000 (NCER).

Wilson, VL. Detecting rare mutations associated with cancer risk. American Journal of Pharmacogenomics 1:283-293, 2001 (NCER).

Wilson, VL, Wade, KR, Yin, X and Albertini, RJ. Temporal delineation of sequential HPRT mutations arising in vivo in a T-cell clone with a mutator phenotype. **Mutation Research** 473:181-199, 2001 (NCER).

Windal, I, Denison, MS, Birnbaum, L, Van Wouwe, N and Baeyens, W. Chemically activated luciferase gene expression (CALUX) cell bioassay analysis for the estimation of dioxin-like activity: critical parameters of the CALUX procedure that impact assay results. **Environmental Science and Technology** 39: 7357-7364, 2005.

Wolf, DC. Quantitative Toxicologic Pathology-Methods and Interpretation. Session Summary. J **Toxicologic Pathology** 14:319-320, 2001.

Wolf, DC and Mann, PC. Confounders in interpreting pathology for safety and risk assessment. **Toxicology and Applied Pharmacology** 202: 302-308, 2005.

Woskie, SR, Hammond, SK, Hines, CJ., Hallock, MF, Kenyon, E and Schenker, MB. Personal fluoride and solvent exposures, and their determinants, in semiconductor manufacturing. **Applied Occupational and Environmental Hygiene** 15:354-61, 2000.

Wu, X, Block, ML, Zhang, W,. Pei, Z, Qin, L, Wilson, B, Zhang, Z, Veronesi, B, and Hong, J. The role of microglia in paraquat induced dopaminergic neurotoxicity. **Antioxidants and Redox Signaling,** in press, 2006.

Yang, J-H and Kodavanti, PRS. Possible molecular targets of halogenated aromatic hydrocarbons in neuronal cells. **Biochemical and Biophysical Research Communications** 280:1372-1377, 2001.

Yang, J-H, Derr-Yellin, EC and Kodavanti, PRS. Alterations in brain protein kinase C isoforms following developmental exposure to a polychlorinated biphenyl mixture. **Molecular Brain Research** 111: 123-135, 2003.

Zhao, X, Yamamoto, T, Newman, JW, Kim, IH, Watanabe, T, Hammock, BD, Stewart, J, Pollock, JS, Pollock, DM. Soluble epoxide hydrolase inhibition protects the kidney from

hypertension-induced damage. Journal of the American Society of Nephrology 15: 1244 – 1253, 2004 (NCER).

Zhou, T, Ross, DG, DeVito, MJ and Crofton, KM. Effects of short-term in vivo exposures to polybrominated diphenyl ethers on thyroid hormones and hepatic enzymatic activities in weanling rats. **Toxicological Sciences** 61:76-82, 2001.

Zhou, T, Taylor, MM, DeVito, MJ and Crofton, KM. Development exposure to brominated diphenyl ethers results in thyroid hormone disruption. **Toxicological Sciences** 66:105-116, 2002.

Zoeller, RT and Crofton, KM. Thyroid hormone action in fetal brain development and potential for disruption by environmental chemicals. **Neurotoxicology** 21:935-945, 2000.

Zoeller, RT and Crofton, K. Mode of action: Neurotoxicity induced by developmental thyroid hormone insufficiency -- neurological abnormalities resulting from exposure to propylthiouracil. **CRC Critical Reviews in Toxicology** 35:771-781, 2005.

Zucker, RM, Keshaviah, AP, Price, OT and Goldman, JM. Confocal laser scanning of rat follicle development. **Journal of Histochemistry and Cytochemistry** 48: 781-791, 2000.

Long-Term Goal 2 Aggregate/Cumulative Risk Adair, BM, Hudgens, EE, Schmitt, MT, Calderon, RL and Thomas, DJ. Total arsenic concentrations in toenails quantiafied by two techniques provide a useful biomarker of chronic arsenic exposure in drinking water. **Environmental Research**, in press, 2006

Adler, CM, Holland, SK, Schmithorst, V, Wilke, M, Weiss, KL, Pan, H and Strakowski, SM. Abnormal frontal white matter tracts in bipolar disorder: A diffusion tensor imaging study. **Bipolar Disorders** 6 197-203, 2004 (NCER).

Alavanja, MCR, Dosemeci, M, Samanic, C, Lubin, J, Lynch, CF, Knott, C, Barker, J, Hoppin, JA, Sandler, DP, Coble, J, Thomas, K and Blair, A. Pesticides and lung cancer risk in the Agricultural Health Study cohort. **American Journal of Epidemiology** 160: 876-885, 2004.

Alavanja, MCR, Bonner, MR, Furlong, CE, Allen, R and Hodgson, E. The Agricultural Health Study Biomarker Workshop on Cancer Etiology: Discussions and conclusions. **Journal of Biochemical and Molecular Toxicology** 19: 192-193, 2005.

Alavanja, MCR, Sandler, DP, Lynch, CF, Knott, C, Lubin, JH, Tarone, R, Thomas, K, Dosemeci, M, Hoppin, JA and Blair, A. Cancer incidence in the Agricultural Health Study. **Scandinavian Journal of Work, Environment and Health** 31 (S1): 39-45, 2005.

Albanese, RA, Banks, HT, Evans, MV and Potter, LK. Physiologically based pharmacokinetic models for the transport of trichloroethylene in adipose tissue. **Bulletin of Mathematical Biology** 64:97-131, 2002.

Andrews, JE, Nichols, HP, Schmid, JE, Mole, LM, Hunter, ES and Klinefelter, G. Developmental toxicity of mixtures: the water disinfection by-products dichloro-, dibromo- and bromochloro acetic acid in rat embryo culture. **Reproductive Toxicology** 19:111-116, 2004.

Aronov, PA, Dettmer, K, Christiansen, JA, Cornel, AJ and Hammock, BD. Development of a HPLC/tandem-MS method for the analysis of the larvicides methoprene, hydroprene and kinoprene at trace levels using Diels-Alder derivatization. **Journal of Agricultural and Food Chemistry** 53: 3306-3312, 2005 (NCER).

Bai, Z, Yiin, LM, Rich, DQ, Adgate, JL, Ashley, PJ, Lioy, PJ, Rhoads, GG, Zhang, J and Field, R. Evaluation and comparison of five methods of sampling lead dust on carpets. **American Industrial Hygiene Association Journal** 64: 528-532, 2003 (NCER).

Barr, DB, Barr, JR, Maggio, VL, Whitehead, RD, Sadowski, MA, Whyatt, RM, Needham, LL. A multi-analytical method for the quantification of contemporary pesticides in human serum and plasma using high resolution mass spectrometry **Journal of Chromatography B: Biomedical Sciences** 778: 99-111, 2002 (NCER).

Beane-Freeman, LE, Bonner, MR, Blair, A, Hoppin, JA, Sandler, DP, Lubin, JH, Dosemeci, M, Lynch, CF, Knott, C and Alavanja, MCR. Cancer incidence among male pesticide applicators in the Agricultural Health Study cohort exposed to diazinon. **American Journal of Epidemiology** 162: 1070-1079, 2005.

Benignus, VA, Geller, A, Boyes, W and Bushnell, P. Human neurobehavorial effects of longterm exposure to styrene: A eta-analysis. **Environmental Health Perspectives** 1135:532-538, 2005.

Benignus, V, Bushnell, P and Boyes, W. Toward cost-benefit analysis of acute behavioral effects of toluene in humans. **Risk Analysis** 25:447-456, 2005.

Bennett, DH and Furtaw, EJ Jr. Fugacity-based indoor residential pesticide fate model. **Environmental Science and Technology** 38: 2142 – 2152, 2004.

Bessette, E, Fasco, MJ, Pentecost, B and Kaminsky, L. Mechanisms of arsenite's effect on polycyclic aromatic hydrocarbon (PAH) induction of human cytochrome P4501A1. **Drug Metabolism Reviews** 35:133, 2003 (NCER).

Betancourt, DA, Dean, TR and Menetrez, MY. Method for evaluating mold growth on ceiling tile. **Journal of Microbiological Methods** 61: 343-347, 2005.

Blair, A, Sandler, D, Thomas, K, Hoppin, J, Kamel, F, Coble, J, Lee, W, Rusiecki, J, Knott, C, Dosemeci, M, Lynch, CF, Lubin, J and Alavanja, M. Disease and injury among participants in the Agricultural Health Study. **Journal of Agricultural Safety and Health** 11: 141-150, 2005.

Blair, A, Sandler, DP, Tarone, R, Lubin, J, Thomas, K, Hoppin, JA, Samanic, C, Coble, J, Kamel, F, Knott, C, Dosemeci, M, Zahm, SH, Lynch, CF, Rothman, N and Alavanja, MCR. Mortality among participants in the Agricultural Health Study. **Annals of Epidemiology** 15: 279-285.

Bonner, MR and Alavanja, MCR. The Agricultural Health Study Biomarker Workshop on Cancer Etiology Introduction: Overview of study design, results and goals of the workshop. **Journal of Biochemical and Molecular Toxicology** 19: 169-171, 2005.

Bonner, MR, Lee, WJ, Sandler, DP, Hoppin, JA, Dosemeci, M and Alavanja, MCR. Occupational exposure to carbofuran and the incidence of cancer in the Agricultural Health Study. **Environmental Health Perspectives** 113: 285-289, 2005.

Boyes, WK, Bushnell, P, Crofton, K, Evans, M and Simmons, J E. Neurotoxic and pharmacokinetic responses to trichloroethylene as a function of exposure scenario. **Environmental Health Perspectives** 108 (Suppl.2):317-322, 2000.

Boyes, WK, Bushnell, PJ, Crofton, KM, Evans, MV, and Simmons, JE. Neurotoxic and pharmacokinetic responses to trichloroethylene as a function of exposure scenario. **Environmental Health Perspective** 108:317-322, 2000.

Boyes, WK, Bercegeay M, Ali, JS, Krantz, T, McGee, J, Evans, M, Raymer, JH, Bushnell, PJ, and Simmons JE. Dose-based duration adjustments for the effects of inhaled trichloroethylene on

rat visual function. Toxicological Sciences 76:121-30, 2003.

Boyes, WK, Evans, MV, Eklund, CR and Simmons, J. Duration adjustment of acute exposure guideline level values for trichloroethylene using a physiologically-based pharmacokinetic model. **Risk Analysis** 25: 677-686, 2005.

Boyes, WK, Simmons, JE, Eklund, C, Benignus, V, Janssen, P and Bushnell, P. Applications of dosimetry modeling to assessment of neurotoxic risk. **Environmental Toxicology and Pharmacology** 9:599-605, 2005.

Boyes, W. Bercegeay, M, Krantz, T, Evans, MV, Benignus, VA and Simmons, JE. Momentary brain concentration of trichloroethylene predicts the effects on rat visual function. **Toxicological Sciences** 87: 187-196, 2005.

Brauer, RD, Robertson, JD, Sharma, P and Yokel, RA. Aluminum and phosphorus separation: application to preparation of target from brain tissue for 26Al determination by accelerator mass spectrometry. Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms 152:129-134, 1999 (NCER).

Bravo, R, Caltabiano, LM, Weerasekera, G, Whitehead, RD, Fernandez, C, Needham, LL, Bradman, A and Barr, DB. Measurement of dialkyl phosphate metabolites of organophosphorus pesticides in human urine using lyophilization with gas chromatography-tandem mass spectrometry and isotope dilution quantification. Journal of Exposure Analysis and Environmental Epidemiology 14:249-59, 2004 (NCER).

Brzezicki, JM, Tessari, JD, Andersen, ME and Cranmer, BK. Quantitative identification of atrazine and its chlorinated metabolites in plasma. **Journal of Analytical Toxicology** 27:569-573, 2003 (NCER).

Brown, KW, Little, SB and Rabinowitz, JR. Benzo[a]pyrene and Benzo[c]phenanathrene: The effect of structure on the binding of water molecules to the diol epoxides. **Chemical Research in Toxicology** 15:1069 – 1079, 2002.

Buck ,R, Özkaynak, H, Xue, J, Zartarian ,VG and Hammerstrom, K. Modeled estimates of chlorpyrifos exposure and dose for Minnesota and Arizona NHEXAS populations. **Journal of Exposure Analysis and Environmental Epidemiology** 11: 253-268, 2003.

Bushnell, PJ, Shafer, TJ, Bale, AS, Boyes, WK, Simmons, JE, Eklund, C and Jackson, TL. Development and application of an exposure-dose-response model for the acute neurotoxicity of organic solvents. **Environmental Toxicology and Pharmacology**, in press, 2006.

Carden, A, Yost, MG and Fense, RA. Noninvasive method for the assessment of dermal uptake of pesticides using attenuated total reflectance infrared spectroscopy. **Applied Spectroscopy** 59: 293-299, 2005.

Casey, M, Gennings, C, Carter, WH, Jr., Moser, VC and Simmons, JE. Detecting interaction(s) and assessing the impact of component subsets in a chemical mixture using fixed-ratio mixture rays designs. Journal of Agricultural, Biological and Environmental Statistics 9:339-361, 2004.

Casey, M, Gennings, C, Carter, WH, Jr, Moser, V C and Simmons, J E. Ds-optimal designs for studying combination of chemicals using multiple fixed-ratio ray experiments. **Environmetrics** 16: 129-147, 2005.

Casey, W, Gennings, C, Carter, W, Moser, V and Simmons, J. Power and sample size calculations for linear hypotheses associated with mixtures of many components using fixed-ratio ray designs. **Environmental and Ecological Statistics**, in press, 2006.

Cecil ,KM, DelBello, MP, Sellars, MC and Strakowski,SM. Proton magnetic resonance spectroscopy of the frontal lobe and cerebellar vermis in children with a mood disorder and a familial risk for bipolar disorders. **Journal of Child and Adolescent Psychopharmacology 13**: 545-555, 2003 (NCER).

Cecil ,KM, DeGrauw, TJ, Salomons, GS, Jakobs, C, Egelhoff, JC and Clark, JF. Magnetic resonance spectroscopy in a 9 dayold heterozygous female child with creatine transporter deficiency. **Journal of Computer Assisted Tomography** 27: 44 – 47, 2003 (NCER).

Chang, JCS, Guo, Z, Fortmann, R and Lao, H. Characterization and reduction of formaldehyde emissions from a low-VOC latex paint. **Indoor Air** 12:10-16, 2002.

Charlap, JH, Donahue, RJ and Knudsen, TB. Exposure-disease continuum for 2-chloro-2'deoxyadenosine, a prototype ocular teratogen. 3. Intervention with PK11195. **Teratology** 67:108-115, 2003 (NCER).

Childers, JW, Witherspoon, CL, Smith, LB, Pleil, JD, Real-time and integrated measurement of potential human exposure to particle-bound polycyclic aromatic hydrocarbons (PAHs) from aircraft exhaust. **Environmental Health Perspectives** 108: 853-862, 2000.

Chuang, JC, VanEmon, JM, Reed, AW, and Junod, N. Comparison of immunoassay and gas chromoatography/mass spectrometry methods for measuring 3.5.6-trichloro-2-pyridinol in multiple sample media. **Analytica Chimica Acta** 517: 177-185, 2004.

Chuang, JC, VanEmon, JM, Durnford, J and Thomas, K. Development and evaluation of an enzyme-linked immunosorbent (ELISA) method for the measurement of 2,4dichlorophenoxyacetic acid in human urine. **Talanta** 67: 658-666, 2005.

Clayton, CA, Pellizzari, ED, Whitmore, RW, Perritt, RL and Quackenboss, JJ. National Human Exposure Assessment Survey (NHEXAS): Distributions and associations of lead, arsenic and volatile organic compounds in EPA Region 5. Journal of Exposure Analysis and Environmental Epidemiology 9: 381-392, 1999.

Clayton, C, Pellizzari, E and Quackenboss, J. National Human Exposure Assessment Survey: Analysis of exposure pathways and routes for arsenic and lead in EPA Region 5. Journal of Exposure Analysis and Environmental Epidemiology 12:29-43, 2002.

Clayton, C, Pellizzari, E, Whitmore, RW and Quackenboss, JJ. Distributions, associations, and partial aggregate exposure of pesticides and polynuclear aromatic hydrocarbons in the Minnesota Children's Pesticide Exposure Study (MNCPES). Journal of Exposure Analysis and Environmental Epidemiology 13:100-111, 2003.

Clayton, CA, Mosqquin, L, Pellizzari, ED and Quackenboss, JJ. Limitations on the uses of multimedia exposure measurements for multipathway exposure assessment-Part 1: Handling observations below detection limits. **Quality Assurance** 10: 123-159, 2004.

Clayton, CA, Mosqquin, L, Pellizzari, ED and Quackenboss, JJ. Limitations on the uses of multimedia exposure measurement for multipathway exposure assessment- Part II: Effects of missing data and imprecision. **Quality Assurance** 10: 161-175, 2004.

Chen, JJ, Chen, Y, Rice, G, Teuschler, L, Hamernik, K, Protzel, A and Kodell, R. Using dose addition to estimate cumulative risks from exposures to multiple chemicals. **Regulatory Toxicology and Pharmacology** 34:35-41, 2001.

Coble, J, Arbuckle, T, Lee, W, Alavanja, M and Dosemeci, M. The validation of a pesticide exposure algorithm using biological monitoring results. **Journal of Occupational and Environmental Hygiene** 2: 194-201, 2005.

Coffey, T, Gennings, C, Simmons, JE and Herr, DW. D-optimal experimental designs to test for departure from additivity in a fixed-ratio mixture ray. **Toxicological Sciences** 88: 467-476, 2005.

Cohen, BS, Li, W, Xiong, JQ and Lippmann, M. Detecting H+ in ultrafine ambient aerosol using iron nano-film detectors and scanning probe microscopy. **Applied Occupational and Environmental Hygiene** 15:80-89, 2000 (NCER).

Cohen Hubal, E, Suggs, J, Nishioka, M and Ivancic, W. Characterizing residue transfer efficiencies using a fluorescent imaging technique. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 261-270, 2005.

Curwin, BD, Hein, MJ, Sanderson, WT, Barry, DB, Heederik, D, Reynolds, SF, Ward, EM and Alavanja, MC. Urinary and hand wipe pesticide levels among farmers and nonfarmers in Iowa. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 500-508, 2005.

Curwin, BD, Hein, MJ, Sanderson, WT, Nishioka, MG, Reynolds, SJ, Ward, EM and Alavanja, MC. Pesticide contamination inside farm and nonfarm houses. Journal of Occupational and Environmental Hygiene 2: 357-367, 2005.

Dary, CC, Blancato, JN and Saleh, MA. Chemomorphic analysis of malathion in skin layers of

the rat: Implactions for the use of dermatopharmacolinetic stripping in exposure assessment to pesticides. **Regulatory Toxicology and Pharmacology** 34: 234-248, 2001.

Dean, TR, Betancourt, D and Menetrez, MY. A rapid DNA extraction method for PCR identification of fungal indoor air contaminants. **Journal of Microbiological Methods** 56: 431-434, 2004.

Dean, TR, Kohan, M, Betancourt, D and Menetrez, MY. A simple polymerase chain reaction/restriction fragment length polymorphism assay capable of identifying medically relevant filamentous fungi. **Molelcular Biotechology** 31: 21-28, 2005.

Dean, TR, Roop, B, Betancourt, D and Menetrez, MY. A simple multiplex polymerase chain reaction assay for the identification of four environmentally relevant fungal contaminants. **Journal of Microbiological Methods** 61: 9-16, 2005.

DeRoos, AJ, Blair, A, Rusiecki, JA, Hoppin, JA, Svec, M, Dosemeci, M, Sandler, DP and Alavanja, MC. Cancer incidence among glyphosate-exposed pesticide applicators in the Agricultural Health Study. **Environmental Health Perspectives** 113: 48-54, 2005.

DeRoos, AJ, Cooper, GS, Alavanja, MC and Sandler, DP. Rheumatoid arthritis among women in the Agricultural Health Study: Risk associated with farming activities and exposures. **Annals of Environmental Epidemiology** 15: 762-770, 2005.

Donnelly, LF, O'Brien, KJ, Dardzinski, BJ, Poe, SA, Bean, JA, Holland, SK, andDaniels, SR. Using a phantom to compare MR techniques for determining the ratio of intraabdominal to subcutaneous adipose tissue. **American Journal of Roentgenology** 180: 993 – 998, 2003 (NCER).

Easterling, MR, Evans, MV and Kenyon, EM. Comparative analysis of software for physiologically based pharmacokinetic modeling: simulation, optimization and sensitivity analysis. **Toxicology Methods** 10:203-229, 2000.

Easterling, MR, Evans, MV and Kenyon, EM. Pharmacokinetic modeling of arsenite uptake and metabolism in hepatocytes – Mechanistic insights and implications for further experiments. **Journal of Pharmacokinetics and Pharmacodynamics** 29:207-234, 2002.

Egeghy PP, Tornero-Velez, R and Rappaport, SM. Environmental and biological monitoring of benzene during self-service automobile refueling. **Environmental Health Perspectives** 108:1195-202, 2000.

Egeghy, PP, Nylander-French, L, Gwin, KK, Hertz-Picciotto, I and Rappaport, SM. Selfcollected breath sampling for monitoring low-level benzene exposures among automobile mechanics. **Annals of Occupational Hygiene** 46:489-500, 2002.

Egeghy, PP, Hauf-Cabalo, L, Gibson, R and Rappaport, SM. Benzene and naphthalene in

air and breath as indicators of exposure to jet fuel. **Journal of Occupational and Environmental Medicine** 60:969-76, 2003.

Egeghy, PP, Quackenboss, JJ, Catlin, S and Ryan, PB. Determinants of temporal variability in NHEXAS-Maryland environmental concentrations, exposures, and biomarkers. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 388-397, 2004.

Engel, L, Hill, DA, Hoppin, JA, Lubin, JH, Lynch, CF, Pierce, J, Samanic, C, Sandler, DP, Blair, A and Alavanja, MC. Pesticide use and breast cancer risk among farmers' wives in the Agricultural Health Study. **American Journal of Epidemiology** 161: 121-135, 2005.

Evans, MV and Andersen, ME. Sensitivity analysis of a physiological model for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): Assessing the impact of specific model parameters on sequestration in liver and fat in the rat. **Toxicological Sciences** 54:71-80, 2000.

Evans, MV and Eklund, CR. A graphical application of sensitivity analysis for gas uptake experiments using chloroform as an example. **Toxicology Methods** 11:1-13, 2001

Evans, MV, Boyes, WK, Simmons, JE, Litton, DK and Easterling, MR. A comparison of Haber's rule at different ages using a physiologically based pharmacokinetic (PBPK) model for chloroform in rats. **Toxicology** 176:11-23, 2002.

Fabisiak, JP, Tyurin, VA, Tyurina, YY, Borisenko, GG, Korotaeva, A, Pitt, BR, Lazo, JS and Kagan, VE. Redox regulation of copper-metallothionein. **Archives of Biochemistry and Biophysics** 363:171-181, 3-1-1999 (NCER).

Fabisiak, JP, Pearce, LL, Borisenko, GG, Tyurina, YY, Tyurin, VA, Razzack, J, Lazo, JS, Pitt, BR and Kagan, VE. Bifunctional anti-/prooxidant potential of metallothionein: redox signaling of copper binding and release. **Antioxidants and Redox Signaling** 1:349-364, 1999 (NCER).

Farr, SL, Cai, J, Savitz, DA, Sandler, DP, Hoppin, JA and Cooper, GS. Pesticide exposure and timing of menopause. **American Journal of Epidemiology**, in press, 2006.

Fenske, RA. State-of-the-art measurement of agricultural pesticide exposures. Scandanavian Journal of Work and Environmental Health 31: 67-73, 2005.

Foarde, KK and Menetrez, M. Evaluating the potential efficacy of three antifungal sealants of duct liner and galvanized steel as used in HVAC systems. **Journal of Industrial Microbiology and Biotechnology** 29:38-43, 2002.

Foarde, KK, VanOsdell, DW and Memetrez, MY. Investigation of the potential anti-microbial efficacy of sealants used in HVAC systems. **Journal of the Air Waste Management Association** 51: 1219-1226, 2001.

Furtaw, EJ Jr. An overview of human exposure modeling activities at the USEPA's National Exposure Research Laboratory. **Toxicology and Industrial Health** 17: 302-314, 2002.

Gennings, C, Carter, WH Jr, Casey, M, Moser, V, Carchman, R and Simmons, JE. Analysis of functional effects of a mixture of five pesticides using a ray design. **Environmental Toxicology and Pharmacology** 18:115-125, 2004.

Gennings, C, Carter, WH, Carchman, RA, Teuschler, LK, Simmons, JE and Carney, EW. A unifying concept for assessing toxicological interactions: Changes in slope. **Toxicological Sciences** 88: 287-297, 2005.

Gilbert, M.E. Does kindling model of epilepsy contribute to our understanding of multiple chemical sensitivity? **Annals of the New York Academy of Sciences** 933:68-91, 2001.

Gordon, CJ, Herr, DW, Gennings, C, Graff, JE, McMurray, Stork, M, Coffey, T, Hamm, A and Mack CM. Thermoregulatory response to an organophosphate and carbamate insecticide mixture: Testing the assumption of dose-additivity. **Toxicology** 217: 1-13, 2006.

Gordon, CJ, Mack, C and Rowsey, P. Temperature regulation in experimental mammals and humans exposed to organophosphate and carbamate agents. **Toxicology of Organophosphate and Carbamate Pesticide**, in press, 2006.

Gordon, SM, Callahan, PJ, Nishioka, MG, Brinkman, MC, O'Rourke, MK, Lebowitz, MD and Moschandreas, DJ. Residential environmental measurements in the national human exposure assessment survey (NHEXAS) pilot study in Arizona: preliminary results for pesticides and VOCs. Journal of Exposure Analysis and Environmental Epidemiology 9: 456 – 470, 1999 (NCER).

Graham, SE and McCurdy, T. Developing meaningful cohorts for human exposure models. **Journal of Exposure Analysis and Environmental Epidemiology** 14: 23-43, 2004.

Guo, Z. Development of a Windowed-based indoor air quality simulation package. **Environmental Modeling and Software** 15: 403-410, 2000.

Guo, Z. Review of indoor emission source models – part 1. overview. **Environmental Pollution** 120: 533-549, 2002.

Guo, Z. Review of indoor emission source models – part 2. parameter estimation. **Environmental Pollution** 120: 551-564, 2002.

Guo, Z, Chang, JCS, Sparks, LE and Fortmann, RC. Estimation of the rate of VOC emissions from solvent-based indoor coating materials based on product formulation. **Atmos Environment** 33:1205-1215, 1999.

Guo, Z, Mosley, R, Wasson, S, Fortmann, R and McBrian, J. Dissociation of sulfur hexafluoride in the presence of an indoor combustion appliance. Journal of Air and Waste Management Association 51: 616-622, 2001.

Guo, Z and Roache, NF. Overall mass transfer coefficient for pollutant emissions from small

water pools under simulated indoor environmental conditions. **The Annals of Occupational Hygiene** 47: 279-286, 2003.

Guo, Z, Jetter, JJ and McBrian, JA. Rates of polycyclic aromatic hydrocarbon emissions from incense. **Bulletin of Environmental Contamination and Toxicity** 76: 186-193, 2004.

Gustin, M, Sexauer; Marsik, F, Lindberg, S, Casimir, A, Ebinghaus, F, Edwards, G, Fitzgerald, C, Kemp, J, Kock, H, Leonard, T, London, J, Majewski, M, Owens, J, Pilote, M, Poissant, L, Rasmussen, P, Schaedlich, F, Schneeberger, D, Schroeder, W, Sommar, J, Turner, R., Vette, A, Walschlaeger, D and Xiao, Z. The Nevada STORMS project: measurement of mercury emissions from naturally enriched surfaces. **Journal of Geophysical Research** 104: 21831-21844, 1999.

Gustin, M, Lindberg, S, Austin, K, Coolbaugh, M, Vette, AF and Zhang, H. Assessing the contribution of natural sources to regional atmospheric budgets. **Science of the Total Environment** 259: 61-71, 2000.

Henderson, AP, Bleasdale, C, Delaney, K, Lindstrom, AB, Rappaport, SM, Wiaidyanatha, S, Watson, WP and Golding, BT. Evidence for the formation of Michael adducts from reactions of (E,E)-muconaldehyde with glutathione and other thiols. **Bioorganic Chemistry** 33:363-373, 2005.

Henderson, AP, Barnes, ML, Bleasdale, C, Cameron, R, Clegg, W, Heath, SL, Lindstrom, AB, Rapporport, SM, Waidyanatha, S, Watson, WP and Golding, BT. Reactions of benzene oxide with thiols including glutathione. **Chemical Research in Toxicology** 18: 265-270, 2005.

Henschel, DB, Fortmann, RC, Roache, NF and Liu, X. Variations in the emissions of volatile organic compounds from the toner for a specific photocopier. **Journal of the Air Waste Management Association** 51: 708-717, 2001.

Henschel, DB, Fortmann, RC, Roache, NF and Liu, X. Potential for reducing indoor styrene exposure from copied paper through use of low-emitting toners. Journal of the Air Waste Management Association 53: 1337-1354, 2003.

Hertzberg RC and MacDonell, MM. Synergy and other ineffective mixture risk definitions. **The Science of the Total Environment** 288:31-42, 2002.

Hertzberg, RC and Teuschler, L. Evaluating quantitative formulas for dose-response assessment of chemical mixtures. **Environmental Health Perspectives** 110:965-970, 2002.

Hofstetter, P, Bare, J, Hammitt, J, Murphy, P and Rice, G. Tools for comparative analysis of alternatives: Competing or complementary perspectives? **Risk Analysis** 22:833-851, 2002.

Holland, N, Smith, MT, Eskenazi, B, and Bastaki M. Biological sample collection and processing for molecular epidemiological studies. **Reviews in Mutation Research** 543:217-234,

2003 (NCER).

Hysong, TA, Burgess, JL, Cebrian Garcia, ME and O'Rourke, MK. House dust and inorganic urinary arsenic in two Arizona mining towns. **Journal of Exposure Analysis and Environmental Epidemiology** 13:211-218, 2003 (NCER).

Hu, YA, Akland, G, Pellizzari, ED, Berry, MR and Melnyk, LJ. Use of pharmacokinetic modeling to design studies for pathway-specific exposure model evaluation. **Environmental Health Perspectives** 112: 1697-1703, 2004.

Isaacs, KK, Evans, MV and Harris, TR. Visualization-based analysis for a mixed inhibition binary PBPK model: Determination of inhibition mechanism. **Journal of Pharmacokinetics and Pharmacodynamics** 31:215-42, 2004.

Ivancic WA, Nishioka, MG, Barnes, RH and Cohen Hubal EA. Development and evaluation of a quantitative video fluorescence imaging system and fluorescent tracer for measuring transfer of pesticide residues from surfaces to hands with repeated contacts. Annals of Occupational Hygiene 48: 519-532, 2004.

Jetter, JJ, Forte, R, and Rubenstein, R. Fault tree analysis for exposure to regrigerants used for automotive air conditioning in the United States. **Risk Analysis** 21: 157-170, 2001.

Jetter, JJ, Guo, Z, McBrian, JA and Flynn, MR. Characterization of emissions from burning incense. Science of the Total Environment 295: 51-67, 2002.

Jetter, JJ and Whitfield, C. Effectiveness of expedient sheltering in place in a residence. **Journal of Hazardous Materials** 119: 31-40, 2005.

Jo SJ, Shin DC, Chung Y, Lee DH and Breysse PN. The development of exposure assessment tools for risk assessment of volatile organic compounds. **Korean Journal of Environmental Toxicology** 17-2:147-160, 2002 (NCER).

Jo SJ, Lee DH, Shin DC, Chung Y and Breysse PN. Correlation study between the environmental, personal and human exposure of volatile organic compounds in ambient air. **Korean Journal of Environmental Toxicology** 17-3:197-205, 2002 (NCER).

Kaydos, EH, Suarez, JD, Roberts, NL, Bobseine, K, Zucker, R, Laskey, J and Klinefelter, GR. Haloacid induced alterations in fertility and the sperm biomarker SP22 in the rat are additive: validation of an ELISA. **Toxicological Sciences** 81:430-442, 2004.

Kim, IH, Morisseau, C, Watanabe, T and Hammock, E. Design, synthesis, and biological activity of 1,3-disubstituted ureas as potent inhibitors of the soluble epoxide hydrolase of increased water solubility. **Journal of Medicinal Chemistry** 47:2110-2122, 2004 (NCER).

Klinefelter, GR, Strader, LF, Suarez, JD, Roberts, NL, Goldman, JM and Murr, AS. Continuous exposure to dibromoacetic acid delays pubertal development and compromises sperm quality in the rat. Toxicological Sciences 81:419-429, 2004.

Knaak, JB, Dary, CC, Power, F, Thompson, CB and Blancato, JN. Physicochemical and biological data for the development of predictive organophosphorus pesticide QSARs and PBPK/PD models for human risk assessment. **Critical Reviews in Toxicology** 34: 143-207, 2004.

Lamba, M, Holland, SK, Schmithorst, V, Dardzinski, B, d'Errico, F and Nath, R. Fast high resolution 3D segmented echo planar imaging for dose mapping using a superheated emulsion chamber. **Magnetic Resonance in Medicine** 49: 675-681, 2003 (NCER).

Lebowitz, MD, O'Rourke, MK, Rogan, S, Reses, J, Van De Water, PL, Blackwell, A, Moschandreas, DJ, Gordon, S and Robertson, G. Indoor and outdoor PM10 and associated metals and pesticides in Arizonia. **Inhalation Toxicology** 12: 139-144, 2000.

Lewis, RG, Fortune, CR, Willis, RD, Camann, DE and Utley, JT. Distribution of pesticides and polycyclic aromatic hydrocarbons in house dust as a function of particle size. **Environmental Health Perspectives** 107: 721-726, 1999.

Lindberg, SE, Zhang, H, Gustin, M, Vette, A, Marsik, Owens, J, Casimir, A, Ebinghaus, R, Edwards, G, Fitzgerald, C, Kemp, J, Kock, H.H, London, J, Majewski, M, Poissant, L, Pilote, M, Rasmussen, P, Schaedlich, F, Schneeberger, D, Sommar, J, Turner, R, Wallschlaeger, D and Xiao, Z. Increases in mercury emissions from desert soils in response to rainfall and irrigation. **Journal of Geophysical Research** 104: 21879-21888, 1999.

Lindberg, SE, Vette, AF, Miles, C and Schaedlich, F. Mercury speciation in natural waters: Measurement of dissolved gaseous mercury with a field analyzer. **Biogeochemistry** 48: 237-259, 2000.

Lindberg, SE, Zhang, H, Vette, AF, Gustin, MS, Barnett, MO and Kuiken, T. Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils. Part 2 effect of flushing flow rate and verification of a two-resistance exchange interface simulation model. **Atmos Environment** 36: 847-859, 2002.

Lindstrom, AB, Yeowell-O'Connell, K, Waidyanatha, S, Golding, BT, Tornero-Velez R and Rappaport, SM. Measurement of benzene oxide in the blood of rats following administration of benzene. **Carcinogenesis** 18:1637-41, 1999.

Lioy, PJ, Edwards, RD, Freeman, N, Gurunathan, S, Pellizzari, E, Adgate, JL, Quackenboss, JJ and Sexton, K. House dust levels of selected insecticides and a herbicide measured by the EL and LWW samplers and comparisons to hand rinses and urine metabolites. **Journal of Exposure Analysis and Environmental Epidemiology** 10:327-340, 2000.

Lipscomb, J, Barton, H, Tornero-Velez, R, Evans, MV, Alcasey, S, Snawder, JE and Laskey J. The metabolic rate constants and specific activity of human and rat hepatic cytochrome P450 2E1 toward chloroform. **Journal of Toxicology and Environmental Health** 67:1-17, 2004.

Lipscomb, JC, Barton, HA, Tornero-Velez, R, Evans, MV, Alcasey, A, Snawder, JE and Laskey, J. The metabolic rate constants and specific activity of hman and rat hepatic cytochrome P450 2E1 toward toluene and chloroform. Journal of Toxicology and Environmental Health (Part A) 67:537-553, 2004

Little, SB, Rabinowitz, JR, Wei, P and Yang, A. A comparison of calculated and experimental geometries for crowded polycyclic aromatic hydrocarbons and their metabolites. **Polycyclic Aromatic Compounds** 14:53 – 61, 1999.

Liu, N, Zhang, QY, Vakharia, D, Dunbar, D and Kaminsky, L. Induction of CYP1A by benzo[k]fluoranthene in human hepatocytes. CYP1A1 or CYP1A2? **Archives of Biochemistry and Biophysics** 389:130-134, 2001 (NCER).

Liu, S and Pleil, JD. Method for liquid-liquid extraction of blood surrogates for assessing human exposure to jet fuel. **Journal of Chromatography: B Biomedical Sciences and Applications** 728: 193-207, 1999.

Liu, S and Pleil, JD. Human blood and environmental media screening method for pesticides and polychlorinated biphenyl compounds using liquid extraction and gas chromatography-mass spectrometry analysis. Journal of Chromatography: B Biomedical Sciences and Applications 769: 155-167, 2002.

Liu SX, Fabisiak, JP, Tyurin, VA, Borisenko, GG, Pitt, BR, Lazo, JS and Kagan, VE. Redox regulation of copper delivery by metallothioneins: reconstitution of apo-superoxide dismutase by nitric oxide-induced copper release. **Chemical Research in Toxicology** 13:922-931, 2000.

Liu, X, Mason, M, Krebs, K and Sparks, L. Full-scale chamber investigation and simulation of air freshener emissions in the presence of ozone. **Environmental Science and Technology** 38: 2802-2812, 2004.

Lorber, M., Eschenroeder, A and Robinson, R. Testing EPA's ISCST-Version 3 Model on dioxins: A comparison of predicted and observed air and soil concentrations. **Atmos Environment** 34:3995-4010, 2000.

Lorber, M and Pinsky, P. An evaluation of three empirical air-to-leaf models for dioxins. **Chemosphere** 41:931-941, 2000.

Lorber, M,Canter, D and Layland, D. Evaluating terrestrial food chain impacts near sources of dioxin release in EPA risk assessments. **Organohalogen Compounds** 48:264-268, 2000.

Lorber, M. Indirect Exposure Assessment at the United States Environmental Protection Agency. **Toxicology and Industrial Health** 17:145-156, 2001.

Lorber, M. A pharmacokinetic model for estimating exposure of Americans to dioxin-like compounds in the past, present, and future. **Science of the Total Environment** 288:81-95,

2002.

Lorber, M., Barton, R, Winters, D, Bauer, K, Davis, M and Palausky, J. Investigation of the potential release of polychlorinated dioxins and furans from PCP-treated utility poles. **Science of the Total Environment** 290:15-39, 2002.

Lorber, M and Phillips, L. Infant exposure to dioxin-like compounds in breast milk. **Environmental Health Perspectives** 110:A325-A332, 2003.

Lorber, M., Ferrario, J, Byrne, C, Greene, C and Cyrus, A. A study to evaluate the levels of dioxin-like compounds in dairy feeds in the United States. **Organohalogen Compounds** 66: 1958-1965, 2004.

Luderer, U, Tornero-Velez, R, Shay, T, Rappaport, S, Heyer, N and Echeverria, D. Temporal association between serum prolactin concentration and exposure to styrene. **Occupational and Environmental Medicine** 61:325-33, 2004.

Lynch, CF, Sprince, NL, Heywood, E, Pierce, J, Logsden-Sackett, N, Pennybacker, M and Alavanja, MC. Comparision of farmers in the agricultural health study to the 1992 and the 1997 censuses of agriculture. **Journal of Agromedicine** 10: 13-22, 2005.

MacIntosh, DL, Needham, LL, Hammerstrom, KA and Ryan, PB. A longitudinal investigation of selected pesticide metabolites in urine. Journal of Exposure Analysis and Environmental Epidemiology 9:494-501, 1999.

MacIntosh, DL, Hammerstrom, KA and Ryan, PB. Longitudinal exposure to selected pesticides in drinking water. **Human and Ecological Risk Assessment** 5: 575-588, 1999.

MacIntosh, DL, Kabiru, CW and Ryan, PB. Longitudinal investigation of dietary exposure to selected pesticides. **Environmental Health Perspectives** 109: 145-150, 2001.

MacIntosh, DL, Kabiru, C, Echols, SL and Ryan, PB. Dietary exposure to chlorpyrifos and levels of 3,4,5-trichloro-2-pyridinol in urine. **Journal of Exposure Analysis and Environmental Epidemiology** 11: 279-285, 2001.

Madden, EF and Fowler, BA. Mechanisms of nephrotoxicity from metal combinations: a review. **Drug and Chemical Toxicology** 23:1-12, 2000 (NCER).

Madden, EF, Akkerman, M and Fowler, BA. A comparison of 60, 70, and 90 kDa stress protein expression in normal rat NRK-52 and human HK-2 kidney cell lines following in vitro exposure to arsenite and cadmium alone or in combination. **Journal of Biochemical and Molecular Toxicology** 16:24-32, 2002 (NCER).

Maschandreas, DJ, Karuchit, S, Berry, MR, O'Rourke, MK Lo, D, Lebowitz, MD and Roberston, G. Exposure apportionment: Ranking food items by their contribution to dietary exposure. **Journal of Exposure Analysis and Environmental Epidemiology** 12: 233-243,

2002.

McCurdy, T and Graham, S. Using human activity data in exposure models: Analysis of discriminating factors. **Journal of Exposure Analysis and Environmental Epidemiology** 13: 294-317, 2003.

McCurdy, T, Glen, G, Smith, L and Lakkadi, Y. The National Exposure Research Laboratory's consolidated human activity database. Journal of Exposure Analysis and Environmental Epidemiology 10, 566-578, 2000.

McMullin, TS, Brzezick, JM, Cranmer, BK, Tessari, JD and Andersen, ME. Pharmacokinetic modeling of disposition and time-course studies with [C-14]atrazine. Journal of Toxicology and Environmental Health-Part A 66:941-964, 2003 (NCER).

Meadows, SL, Gennings, C, Carter, WH, Jr and Simmons, JE. Analysis of mixtures of drugs/chemicals along a fixed ratio ray without single chemical data to support an additivity model. **Journal of Agricultural, Biological and Environmental Statistics,** in press, 2006.

Melnyk, LJ, Berry, MR, Sheldon, LS, Freeman, NC, Pellizzari, ED and Kinman RN. Dietary exposure of children in lead-laden environments. **Journal of Exposure Analysis and Environmental Epidemiology** 10:723-31, 2000.

Melnyk, LJ, Morgan, JN, Fernando, R, Akinbo, O and Pellizzari, ED. Determination of metals in composite diet samples by ICP-MS. Journal of AOAC International 86: 439-447, 2003.

Menetrez, MY and Foarde, KK. Testing antimicrobial efficacy on porous materials. **Indoor Built Environment: The Journal of the International Society of the Built Environment** 11:202-207, 2002.

Menetrez, MY and Foarde, KK. Microbial volatile organic compound emission rates and exposure model. Indoor Built Environment: The Journal of the International Society of the Built Environment 11:208-213, 2002.

Menetrez, MY and Foarde KK. Emission exposure model for transport of toxic mold. **Indoor Built Environment: The Journal of the International Society of the Built Environment** 13:75-82, 2004.

Menetrez, MY, Foarde, KK and Ensor, DS. An analytical method for the measurement of nonviable bioaerosols. Journal of the Air and Waste Management Association 51:1436-1442, 2001.

Menetrez, MY, Foarde, K and Ensor, DS. Research and development of prevention and control measures for biological indoor air pollutants. **Indoor Built Environment: The Journal of the International Society of the Built Environment** 13:109-114, 2004.

Menetrez, MY, Foarde, K, Webber, TD, Dean, TR and Betancourt, D. Growth responses of

*Stachybotrys chartarum* to moisture variation on common building materials. **Indoor Built Environment: The Journal of the International Society of the Built Environment** 13:183-188, 2004.

Menetrez, MY, Foarde, KK, Webber, TD, Dean, TR and Betancourt, DA. Efficacy of UV Irradiation on Eight Species of Bacillus. **Industrial Microbiology and Biotechnology.** in press. 2006.

Michelson, S and Okino, MS. The virtual patient: Capturing patient variability using biosimulation. **Preclinica** 2: 33-37, 2004.

Moate, TF, Furia, M and Curl, C. Size exclusion chromatographic cleanup for GC/MS determination of organophosphorus pesticide residues in household and vehicle dust. **JAOAC International** 85:36-43, 2003 (NCER).

Morgan, MK, Stout, DM and Wilson, NK. Feasibility study of the potential for human exposure to pet-borne diazinon residues following lawn applications. **Bulletin of Environmental Contamination and Toxicology** 66:295-300, 2001.

Moschandreas, DJ, Karuchit, S, Kim, Y, Ari, H, Lebowitz, MD, O''Rourke, MK, Gordon, S and Robertson, G. On predicting multi-route and multimedia residential exposure to chlorpyrifos and diazinon. Journal of Exposure Analysis and Environmental Epidemiology 11: 56-65, 2001.

Moschandreas, DJ, Kimm, Y, Karuchit, S, Ari, H, Lebowitz, MD, O'Rourke, MK, Gordon, S and Gordon, G. In-residence, multiple route exposures to chlorpyrifos and diazinon estimated by indirect method models. Atmospheric Environment 35: 2201-2213, 2001.

Moschandreas, DJ, Karuchit, S, Berry, MR, O'Rourke, MK, Lo, D, Lebowitz, MD and Robertson, G. Exposure apportionment: ranking food items by their contribution to dietary exposure. **Journal of Exposure Analysis and Environmental Epidemiology** 12:233-243, 2002 (NCER).

Moser, VC, MacPhail, RC and Gennings, C. Neurobehavioral evaluations of mixtures of trichloroethylene, heptachlor, and di(2-ethylhexyl)phthalate in a full-factorial design. **Toxicology** 188: 125-137, 2003.

Moser, VC, Casey, M, Hamm, A, Carter, WH, Simmons, JE and Gennings, C. Neurotoxicological and statistical analyses of a mixture of five organophosphorus pesticides using a ray design. **Toxicological Sciences** 86: 101-115, 2005.

Moya, J, Howard, C and Corsi R, Volatilization of chemicals from tap water to indoor air while showering with contaminated water. **Environmental Science and Technology** 33: 2321-2327, 1999.

Moya, J and Phillips, L. Analysis of consumption of home-produced foods. Journal of **Exposure Analysis and Environmental Epidemiology** 11: 398-406, 2001.

Moya, J and Phillips, L. Overview of the use of the U.S. EPA exposure factors handbook. International Journal of Hygiene and Environmental Health. 205:155-159, 2002.

Moya, J, Bearer, CF and Etzel, R. Children's behavior and physiology and how it affects exposure to environmental contaminants. Journal of Pediatrics 113: 996-1006, 2004.

Moya, J. Overview of fish consumption rates in the United States. Journal of Human and Ecological Risk Assessment, in press, 2006.

Okino, MS and Mavrovouniotis, ML. Simplification of chemical reaction systems by timescale analysis. **Chemical Engineering Communications** 176: 115-131, 1999.

Okino, MS, Snurr, RQ, Kung, HH, Ochs, JE and Mavrovouniotis, ML. A consistent correlation approach to single file diffusion with reaction. **Journal of Chemical Physics** 111: 2210-2221, 1999.

O'Rourke, MK, Fernandez, LM, Bittel, CN, Sherrill, JL, Blackwell, TS and Robbins, DR. Mass data massage: an automated data processing system used for NHEXAS, Arizona. National Human Exposure Assessment Survey. **Journal of Exposure Analysis and Environmental Epidemiology** 9:471–484, 1999 (NCER).

O'Rourke, MK, Van de Water, PK, Jin, S, Rogan, SP, Weiss, AD, Gordon, SM, Moschandreas DM and Lebowitz, MD. Evaluations of primary metals from NHEXAS Arizona: distributions and preliminary exposures. National Human Exposure Assessment Survey. **Journal of Exposure Analysis and Environmental Epidemiology** 9:435–445, 1999 (NCER).

O'Rourke, MK, Rogan, SP, Jin, S and Robertson, GL. Spatial distributions of arsenic exposure and mining communities from NHEXAS Arizona. National Human Exposure Assessment Survey. **Journal of Exposure Analysis and Environmental Epidemiology** 9:446–455, 1999 (NCER).

Pang, Y, MacIntosh, DL, Camann, DE and Ryan, PB. Analysis of aggregate exposure to chlorpyrifos in the NHEXAS-Maryland investigation. Environmental Health **Perspectives** 110: 235-240, 2002.

Pellizzari, ED, Smith, DJ, Clayton, CA, Michael, LC and Quackenboss, JJ. An assessment of the data quality for NHEXAS-Part 1: Exposure to metals and volatile organic chemicals in Region 5. **Journal of Exposure Analysis and Environmental Epidemiology** 11:140-154, 2001.

Pinnella, KD, Tessari, JD, Cranmer, BK, Cosma, GN and Veeramachaneni, DNR. Gas chromatographic determination of catecholestrogens following isolation by solid-phase extraction. **Journal of Chromatography B** 758:145-152, 2001 (NCER).

Pratt, GC, Wu, CY, Bock, D, Adgate, JL, Ramachandran, G, Stock, TH, Morandi, M and Sexton

K. Comparing air dispersion model predictions with measured concentrations of VOCs in urban communities. **Environmental Science and Technology** 38:1949-1959, 2004 (NCER).

Rabinowitz, JR, Little, SB and Brown, K. Why does 5-methyl chrysene interact with DNA as both a planar and nonplanar polycyclic aromatic hydrocarbon? **International Journal of Quantum Chemistry** 88:99–106, 2001.

Rabinowitz, JR, Little, SB and Gifford, EM. Molecular interaction potentials for the development of structure activity relationships. **Environmental Toxicology and Chemistry** 51: 203-209, 2003.

Rhodes, AG, LeMasters, GK, Lockey, JE, Smith, JW, Yiin, JH, Egeghy, P and Gibson R. The effects of jet fuel on immune cells of fuel system maintenance workers. **Journal of Occupational and Environmental Medicine** 45:79-86, 2003.

Rice, G, Swartout, J, Brady-Roberts, E, Reisman, D, Mahaffey, K and Lyon, B. Characterization of risks posed by combustor emissions. **Drug and Chemical Toxicology** 22:221-240, 1999.

Rice, G, Swartout, J, Mahaffey, K and Schoeny, R. Derivation of the US EPA's methylmercury oral reference dose (RfD). **Drug and Chemical Toxicology** 23:41-54, 2000.

Rice, G, Wright, JM, Boutin, B, Swartout, J, Rodgers, P, Niemuth, N and Broder, M. Estimating the frequency of tap water exposures to Mycobacterium avium complex in the US population with advanced AIDS. Journal of Toxicology and Environmental Health 68: 1033-1047, 2005.

Richardson, SD, Simmons, JE and Rice, G. Disinfection by-products: The next generation. **Environmental Science and Technology** 36:198A-205A, 2002.

Riley, WJ, McKone, T and Cohen Hubal, E. Estimating contaminant dose for intermittent dermal contact: Model development, testing, and application. **Risk Analysis** 24: 73-85, 2004.

Robertson, GL, Lebowitz, MD, O'Rourke, MK, Gordon, S and Moschandreas, D. National Human Exposure Assessment Survey (NHEXAS) study in Arizonia-Introduction and preliminary results. **Journal of Exposure and Analytical Environmental Epidemiology** 9: 427-434, 1999.

Roegge, CS and Schantz, S. Motor function following developmental exposure to PCBs and/or MEHG. **Neurotoxicology and Teratology** 28: 260-277, 2006.

Roegge, CS, Medora, K, Seo, BW, Crofton, KM and Schantz, SL. A comparison of maternal steady-state and gestation-lactation only exposure to Aroclor 1254 on radial-arm maze performance. **Toxicological Sciences** 57:121-130, 2000.

Rogers, K, Wang, Y, Mulchandani, A, Mulchandani, P and Chen, W. Organophosphorus hydrolase-based assay for organophosphate pesticides. **Biotechnology Progress** 15: 517-521, 1999.

Roher, CA, Hieber, T, Melnyk, LF and Berry, MR. Transfer efficiences of pesticides from household flooring surfaces to food. Journal of Exposure Analysis and Environmental Epidemiology 13: 454-464, 2003.

Rosenblum, L, Hieber, T and Morgan, JN. Determination of pesticides in composite dietary samples by gas chromatography/mass sepctrometry in the selected ion monitoring mode by using a temperature-programmable large volume injector with pre-separation column. JAOAC International 84: 891-900, 2001.

Rosenblum, L, Garris, ST and Morgan, JN. Comparision of five extraction methods for determination of incurred and added pesticides in dietary composites. **JAOAC International** 85: 1167-1176, 2002.

Ross, MK, Said, B and Shank, RC. DNA-damaging effects of genotoxins in mixture: Modulation of covalent binding to DNA. **Toxicological Sciences** 53:224-236, 2000 (NCER).

Said, B, Ross, MK, Hamade, AK, Matsumoto, DC and Shank, RC. DNA-damaging effects of genotoxins in mixture: Nonadditive effects of aflatoxin B-1 and N-acetylaminofluorene on their mutagenicity in Salmonella typhimurium. **Toxicological Sciences** 52:226-231, 1999 (NCER).

Samanic, C, Hoppin, JA, Lubin, JH, Blair, A and Alavanja, MCR. Factor analysis of pesticide use patterns among pesticide applicators in the Agricultural Health Study. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 225-233, 2005.

Scheerer, JB, Xi, L, Knapp, GW, Setzer, RW, Bigbee, WL and Fuscoe JC. Quantification of illegitimate V(D)J recombinase-mediated mutations in lymphocytes of newborns and adults. **Mutation Research**. 431:291-303, 1999.

Schmithorst, VJ and Holland, SK. Comparison of three methods for generating group statistical inferences from independent component analysis of functional magnetic resonance imaging data, **Journal of Magnetic Resonance Imaging** 19:365-368, 2004 (NCER).

Schmithorst, VJ and Holland, SK. Event related fMRI technique for auditory processing with hemodynamics unrelated to acoustic gradient noise. **Magnetic Resonance in Medicine** 51:399 – 402, 2004 (NCER).

Schmithorst, VJ and Holland, SK. The effect of musical training on the neural correlates of math processing a functional magnetic resonance imaging study in humans. **Neuroscience Letters** 354:193-196, 2004 (NCER).

Schoeffner, DJ, Warren, DA, Muralidhara, S, Bruckner, JV and Simmons, JE. Organ weights and fat volume in rats as a function of strain and age. **Journal of Toxicology and Environmental Health** 56:1449-462, 1999.

Serdar, B, Egeghy, PP, Waidyanatha, S, Gibson, R and Rappaport, SM. Urinary biomarkers of

exposure to jet fuel (JP-8). Environmental Health Perspectives 111:1760-1764, 2003. 1

Serdar, B, Egeghy ,PP, Gibson, R and Rappaport, SM. Dose-dependent production of urinary naphthols among workers exposed to jet fuel (JP-8). **American Journal of Industrial Medicine** 46:234-44, 2004.

Sexton, K, Callahan, M, Bryan, E, Saint, C and Wood, W. Informed decisions about protecting and promoting public health: Rationale for a national human exposure assessment survey. **Journal of Exposure Analysis and Environmental Epidemiology** 5:233-256, 2000 (NCER).

Sexton, K, Adgate, JL, Ramachandran, G, Pratt, GC, Mongin, SJ, Stock, TH and Morandi, MT. Comparison of personal, indoor, and outdoor exposures to hazardous air pollutants in three urban communities. **Environmental Science and Technology** 38:423-430, 2004 (NCER).

Sexton, K, Adgate, JL, Mongin, SJ, Pratt, GC, Ramachandran, G, Stock, TH and Morandi, MT. Evaluating differences between measured personal exposures to volatile organic compounds and concentrations in outdoor and indoor air. **Environmental Science and Techology** 38:2593-2602, 2004 (NCER).

Simmons, JE, Boyes, WK, Bushnell, PJ, Raymer, JH, Limsakun, T, McDonald, A, Sey, YM and Evans, MV. A physiologically-based pharmacokinetic model for trichloroethylene in the Long Evans rat. **Toxicological Sciences** 69:3-15, 2002.

Simmons, JE, Richardson, SD, Speth, T, Miltner, RJ, Rice, G, Schenck, K, and Teuschler, LK Development of a research strategy for integrated technology-based toxicology studies on drinking water disinfection by products. **Environmental Health Perspectives** 110 (Suppl 6): 1013-1024, 2002.

Simmons, JE, Teuschler, LK, Gennings, C, Speth, TF, Richardson, SD, Miltner, RJ, Narotsky, MG, Schenck, KD, Hunter, ES III, Hertzberg, RC and Rice, G. Component-based and wholemixture techniques for addressing the toxicity of drinking-water disinfection-by product mixtures. **Journal of Toxicology and Environmental Health Part A** 67:741-754, 2004.

Simmons, JE, Evans, MV and Boyes, WK. Moving from external exposure concentration to internal dose: duration extrapolation based on physiologically-based pharmacokinetic derived estimates of internal dose. Journal of Toxicology and Environmental Health Part A 68: 927-950, 2005.

Sohn, MD, McKone, TE and Blancato, JN. Reconstructing population exposure from dose biomarkers: Inhalation of trichloroethylene (TCE) as a case study. **Journal of Exposure Analysis** 14): 204-213, 2004.

Stout, DM and Leidy, RB. A preliminary examination of the translocation of microencapsulated Cyfluthrin following applications to the perimeter of residential dwellings. **Journal of Environmental Sciences and Health** B35: 477-489, 2000.

Stout, DM and Mason, MA. The distribution of chlorpyrifos following a crack and crevice type application in the US EPA Indoor Air Research House. **Atmospheric Environmnt** 37: 5539-5549, 2003.

Szaflarski, JP, Holland, SK, Schmithorst, VJ, Dunn, RS and Privitera, MD. High resolution functional MRI at 3T in healthy and epilepsy subjects hippocampal activation with picture encoding task. **Epilepsy and Behavior** 5:244-252, 2004 (NCER).

Teuschler, LK, Dourson, M, Stiteler, W, McClure, P and Tully, H. Health risk above the reference dose for multiple chemicals. **Regulatory Toxicology and Applied Pharmacology** 30: S19-26, 1999.

Teuschler, LK, Gennings, C, Stiteler, W, Hertzberg, R, Colman, J, Thiyagarajah, A, Lipscomb, J, Hartley, W and Simmons, J. A multiple-purpose design approach to the evaluation of risks from complex mixtures of disinfection by-products (DBPs). **Drug and Chemical Toxicology.** 23:307-321, 2000.

Teuschler, LK, Groten, JP, Hertzberg, RC, Mumtaz, M and Rice, G. Environmental chemical mixtures risk assessment: Current approaches and emerging issues. **Comments on Toxicology** 7:453-493, 2001.

Teuschler, LK and Simmons, JE. Approaching the toxicity of disinfection by-products in drinking water as a mixtures problem. **Journal of the American Water Works Association** 95:131-138, 2003.

Teuschler, LK, Rice, G, Wilkes, C, Lipscomb and Power, FW. A feasibility study of cumulative risk assessment methods for drinking water disinfection by-product mixtures. **Journal of Toxicology and Environmental Health Part A** 64:755-777, 2004.

Teuschler, LK, Gennings, C, Hartley, WR, Carter, H, THiyagarajah, A, Schoeny, R and Cubbison, C. The interaction effects of binary mixtures of benzene and toluene on the developing heart of the medada (Oryzias latipes). **Chemosphere** 58: 1283-1291, 2005.

Teuschler, LK, Hertzberg, RC, Rice, GE and Simmons, JE. EPA Project-level research strategies for chemical mixtures: Targeted research for meaningful results. **Environmental Toxicology and Pharmacology,** in press, 2006.

Thomas KW, Pellizzari ED and Berry, MR. Population-based dietary intakes and tap water concentrations for selected elements in the EPA region V National Human Exposure Assessment Survey (NHEXAS). Journal of Exposure Analysis and Environmental Epidemiology 9:402-13, 1999.

Tollestrup, K, Frost, FJ, Cristiani, M, McMillan, GP, Calderon, RL and Padilla RS. Arsenicinduced skin conditions identified in southwest dermatology practices: an epidemiological tool? **Environmental Geochemistry and Health** 27: 47-53, 2005. Tornero-Velez, R, Waidyanatha, S, Echeverria, D and Rappaport, SM. Measurement of styrene-7,8-oxide and other oxidation products of styrene in air. **Journal of Environmental Monitoring** 2:111-117, 2000.

Tornero-Velez, R and Rappaport, SM. Physiologically modeling of the relative contributions of styrene-7,8-oxide derived from direct inhalation and from styrene metabolism upon the systemic dose in humans. **Toxicological Sciences** 64:151-161, 2001.

Tornero-Velez, R, Waidyanatha, S, Echeverria, D and Rappaport, SM. Determination of styrene and styrene-7,8-oxide in human blood by gas chromatography with positive chemical ionization mass spectrometry. **Journal of Chromatography B Biomedical Science Applied** 757:59-68, 2001.

Tornero-Velez, R, Ross, MK, Granville, C, Laskey, J, DeMarini, DM and Evans, MV. Metabolism and mutagenicity of source water contaminants 1,3-dichloropropane and 2,2-dichloropropane. **Drug Metabolism and Disposition** 32:123-131, 2004.

Vakharia, D, Liu, N, Pause, R, Fasco, M, Bessette, E, Zhang, QY and Kaminsky, LS. Polycyclic aromatic hydrocarbon/metal mixtures: effect on PAH induction of CYP1A1 in human HEPG2 cells. **Drug Metabolism and Disposition** 29:999-1006, 2001 (NCER).

Vakharia, D and Kaminsky, LS. Effect of binary, ternary, and quaternary mixtures of PAHs on CYP1A1 induction in human HepG2 cells. **Toxicological Sciences**, 2001 (NCER).

Vermeulen, R, DeRoss, AJ, Bakke, B, Blair, A, Hildescheim, A, Pinto, L, Gillette, PP, Lunch, CF, Allen, RH and Alavanja, MC. A study on immunological responses to exposures encountered in corn farming. **Journal of Biochemical and Molecular Toxicology** 19: 172, 2005.

Whitmore, RW, Byron, MZ, Clayton, CA, Thomas, KW, Zelon, HS, Pellizzari, ED, Lioy, PF and Quackenboss, JJ. Sampling design, response rates, and analysis weights for the National Human Exposure Assessment Survey (NHEXAS) in EPA region 5. Journal of Exposure Analysis and Environmental Epidemiology 9:369-380, 1999.

Whitmore RW, Pellizzari ED, Zelon HS, Michael LC, Quackenboss JJ. Cost/variance optimization for human exposure assessment studies. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 464-472, 2005.

Wilson, VL, Tatford, BC, Yin, X, Rajki, SC, Walsh, MM and LaRock, P. Species-specific detection of hydrocarbon utilizing bacteria. **Journal of Microbiological Methods** 39:59-78, 1999 (NCER).

Wilson, NK, Chuang, JC, Iachan, R, Lyu, C, Gordon, SM, Morgan, MK, Ozkaynak, H and Sheldon, LS. Design and sampling methodology for a large study of preschool children's aggregate exposures to persistent organic pollutants in their everyday environments. Journal of Exposure Analysis and Environmental Epidemiology 14:260-74, 2004.

Wu, SJ, Spink, DC, Spink, BC and Kaminsky, LS. Quantitation of CYP1A1 and 1B1 mRNA in polycyclic aromatic hydrocarbon-treated human T-47D and HepG2 cells by a modified bDNA assay using fluorescence detection. **Analytical Biochemistry** 312:162-166, 2003 (NCER).

Wubah, JA, Setzer, RW and Knudsen, TB. Exposure-disease continuum for 2-chloro-2'-deoxyadenosine (2CdA), a prototype ocular teratogen. 1. Dose-response analysis. **Teratology** 4:154–169, 2001.

Zartarian, V, Ozkaynak, H, Burke, J, Zufall, M, Rigas, M and Furtaw, E. A modeling framework for estimating residential exposure and dose to chlorpyrifos via dermal residue contact and nondietary ingestion. **Environmental Health Perspectives** 108: 505-514, 2000.

Zartarian, V, Bahadori, T and McKone, TE. Adoption of an official International Society of Exposure analysis glossary. Journal of Exposure Analysis and Environmental Epidemiology 15: 1-5, 2005.

Zartarian, V, Xue, J, Ozkaynak, H, Dang, W, Glen, G, Smith, L and Stallings, C. A Probabilistic Arsenic Exposure Assessment for Children Who Contact CCA-Treated Playsets and Decks, Part 1: Model Methodology, Variability Results, and Model Evaluation. **Risk Analysis** 26:515-531, 2006.

## Long-Term Goal 3 Susceptible Subpopulations

Abdel-Rahman, A, Dechkovskaia, AM, Mehta-Simmons, H, Guan, X, Khan, WA and Abou-Donia, MB. Increased expression of glial fibrillary acidic protein in cerebellum and hippocampus: differential effects on neonatal brain regional acetylcholinesterase following maternal exposure to combined chlorpyrifos and nicotine. **Journal of Toxicology and Environmental Health-Part A** 66:2047-2066, 2003 (NCER).

Abou-Donia, MB, bdel-Rahman, A, Goldstein, LB, Dechkovskaia, AM, Shah, DU, Bullman, SL and Khan, WA. Sensorimotor deficits and increased brain nicotinic acetylcholine receptors following exposure to chlorpyrifos and/or nicotine in rats. **Archives of Toxicology** 77:452-458, 2003 (NCER).

Adgate, JL, Clayton, CA, Quackenboss, JJ, Thomas, KW, Whitmore, RW, Pellizzari, ED, Lioy, PJ, Shubat, P, Stroebel, C, Freeman, NC and Sexton, K. Measurement of multi-pollutant and multi-pathway exposures in a probability-based sample of children practical strategies for effective field studies. Journal of Exposure Analysis and Environmental Epidemiology10: 650-661, 2000 (NCER).

Adgate, JL, Kukowski, A, Stroebel, C, Shubat, PJ, Morrell, S, Quackenboss, JJ, Whitmore, RW and Sexton K. Pesticide storage and use patterns in Minnesota households with children, **Journal of Exposure Analysis and Environmental Epidemiology** 10:159-167, 2000 (NCER).

Adgate, JL, Barr, DB, Clayton, CA, Eberly, LE, Freeman, NC, Lioy, PJ, Needham, LL, Pellizzari, ED, Quackenboss, JJ, Roy, A and Sexton K. Measurement of children's exposure to pesticides: analysis of urinary metabolite levels in a probability-based sample. **Environmental Health Perspectives** 109:583-590, 2001 (NCER).

Adgate, JL, Church, TR, Ryan, AD, Ramachandran, G, Fredrickson, AL, Stock, TH, Morandi, MT and Sexton, K. Outdoor, indoor, and personal exposure to VOCs in children, **Environmental Health Perspectives** 112:1386-1392, 2004 (NCER).

Adgate, JL, Eberly, LE, Stroebel, C, Pellizzari, ED and Sexton, K. Personal, indoor, and outdoor VOC exposures in a probability sample of children. **Journal of Exposure Analysis and**
## Environmental Epidemiology 14:S4-S13, 2004 (NCER).

Adibi, J, Perera, FP, Jedrychowski, W, Camaan, D, Barr, D, Jacek, R and Whyatt, RM. Prenatal exposures to phthalates in New York City and Krakow, Poland. **Environmental Health Perspectives** 111:1719-1722, 2003.

Agee, MD and Crocker, TD. Parents' discount rate and the intergenerational transmission of cognitive skills. **Economica** 69:143-154, 2002 (NCER).

Akingbemi, BT Ge, R, Klinefelter, G, Zirkin, BR and Hardy, MP. Phthalate-induced Leydig cell hyperplasia is associated with multiple endocrine disturbances. **Proceedings of the National Academy of Sciences USA** 101:775-780, 2004.

Alberg, AJ, Brock, MV and Samet, JM. Epidemiology of lung cancer: looking to the future. **Journal of Clinical Oncology** 23:3175-3185, 2005.

Alexis, NE and Peden, DB. Blunting airway eosinophilic inflammation results in a decreased airway neutrophil response to inhaled LPS in patients with atopic asthma: a role for CD-14. **Journal of Allergy and Clinical Immunology** 108: 577-580, 2001.

Alexis, NE, Elderidge, MW and Peden, DB. Effect of inhaled endotoxin in airway and circulating inflammatory cell phagocytosis and CD11b expression in atopic asthmatic subjects. **Journal of Allergy and Clinical Immunology** 112: 353-361, 2003.

Alexis, NE, Soukup, J, Ghio, A and Becker, S. Sputum phagocytes from healthy individuals are functional and activated: a flow cytometric comparison with cells in bronchoalveolar lavage and peripheral blood. **Clinical Immunology** 97: 21-32, 2000.

Alexis, NE, Griffith, K, Almond, M and Peden, DB. IL-4 induces IL-6 and signs of allergic-type inflammation in the nasal airways of nonallergic individuals. **Clinical Immunology** 104: 217-220, 2002.

Alexis, NE, Richards, JH, Carter, JD and Ghio, AJ. Iron-binding and storage proteins in sputum. **Inhalation Toxicology** 14: 387-400, 2002.

Alexis, NE, Lay, JC, Almond, M and Peden, DB. Inhalation of low-dose endotoxin favors local Th2 response and primes airway phagocytes in vivo. **Journal of Allergy and Clinical Immunology** 114:1325-1331, 2004.

Alexis, NE, Hu, SC, Zeman, K, Alter, T and Bennett, WD. Induced sputum derives from the central airways: conformation using a radiolabeled aerosol bolus delivery technique. American **Journal of Respiratory and Critical Care Medicine** 164: 1964-1970, 2001.

Alexis, N, Eldridge, M, Reed, W, Bromberg, P and Peden, DB. CD14-dependent airway neurtrophil response to inhaled LPS: Role of atopy. Journal of Allergy and Clinical Immunology 107: 31-35, 2001.

Alexis, NE, Becker, S, Bromberg, PA, Devlin, R and Peden, DB. Circulating CD11b expression correlates with the neutrophil response and airway mCD14 expression is enhanced following ozone exposure in humans. **Clinical Immunology** 111:126-31, 2004.

Alexis, NE, Lay, JC, Almond, M, Bromberg, PA, Patel, DD and Peden, DB. Acute LPS inhalation in health volunteers induces dendritic cell maturation in vivo. **Journal of Allergy and Clinical Immunology** 115: 345-350, 2005.

Alexis, NE, Lay, JC, Zeman, KL, Beiser, M, Kapp, N and Bennett, WD. In vivo particle uptake by airway macrophages in health volunteers. **American Journal of Respiration and Cell Molecular Biology**, in press.

Alexis, N, Urch, B, Tarlo, S, Corey, P, Pengelly, D, O'Byrne, P and Silverman, F. Cyclooxygenase metabolites play a different role in ozone-induced pulmonary function decline in asthmatics compared to normals. **Inhalation Toxicology** 12: 1205-1224, 2000.

Alkon, A, Lippert, S, Vujan, N, Rodriquez, ME, Boyce, WT and Ezkenazi, B. The ontogeny of autonomic measures in 6- and 12-month-old infants. **Developmental Psychobiology** 48:197-208, 2006 (NCER).

Allen FC, Vargas PA, Kolodner K, Eggleston P, Butz A, Huss K, Malveaux F and Rand CS. Assessing pediatrics clinical asthma practices and perception: A new instrument. **Journal of Asthma** 37: 31-42, 2000 (NCER).

Allen FC, Diette GB, McDonald RC, Skinner EA, Steinwachs DM and Wu AW. Improving asthma care and outcomes in a managed care setting: A case study. **Disease Management and Health Outcomes** 10: 495-503, 2002 (NCER)

Ananth CV, Berkowitz GS, Savitz DA and Lapinski RH. Placental abruption and adverse perinatal outcomes. **Journal of the American Medical** Association 282:1646-1651, 1999 (NCER).

Anderson HA, Wolff MS, Environmental contaminants in human milk, **Journal of Exposure Analysis and Environmental Epidemiology** 10: 755 – 760, 2000.

Anderson, HA and Wolff, MS. Importance of environmental contaminants in human milk. **Journal of Exposure and Analytical Environmental Epidemiology** 10:1-6, 2000 (NCER).

Andrew Clayton, C, Pellizzari, ED, Whitmore, RW, Quackenboss, JJ, Adgate, J, and Sexton, K. Distributions, associations, and partial aggregate exposure of pesticides and polynuclear aromatic hydrocarbons in the Minnesota Children's Pesticide Exposure Study MNCPES **Journal of Exposure Analysis and Environmental Epidemiology** 13:100-111, 2003.

Auinger, P, Kalkwarf, HJ, Mansour, M and Lanphear, BP. Trends in otitis media in US children, **Pediatrics** 112:514-520, 2003 (NCER).

Avol, EL, Gauderman, WF, Tan, SM, London, SF and Peters, JM. Respiratory effects of relocating to areas of differing air pollution levels. **American Journal of Respiratory and Critical Care Medicine** 164:2067-2072, 2001 (NCER).

1Azaroff, LS and Neas, LM. Acute health effects associated with nonoccupational pesticide exposure in rural El Salvador. **Environmental Research** 80:158-64, 1999.

Babinszki A, Kerenyi T, Torok O, Grazi V, Lapinski R and Berkowitz RL. Perinatal outcome in grand and great-grand multiparity: effects of parity on obstetric risk factors. **American Journal of Obstetrics and Gynocology** 181:669-674, 1999 (NCER).

Baraniuk, JN, Naranch, K, Maibach, H and Clauw, D. Irritant rhinitis in allergic, nonallergic, control, and Chronic Fatigue Syndrome populations. Journal of Chronic Fatigue Syndrome 7:3-31, 2000 (NCER).

Baraniuk, JN, Naranch, K, Maibach, H and Clauw, D. Tobacco sensitivity in Chronic Fatigue Syndrome. **Journal of Chronic Fatigue Syndrome** 7:33-52, 2000 (NCER).

Barone, S, Jr, Coates, N, Mundy, W, Shafer, T and Tilson, H. Gestational exposure to methylmercury alters the development pattern of trk-like immunoreactivity in the rat brain and results in cortical dysmorphology. **Developmental Brain Research** 109:13-31, 1999.

Barone, S Jr, Das, K, Lassiter, TL and White, L. Vulnerable processes of nervous system development: A review of markers and methods. **NeuroToxicology** 21: 15-36, 2000.

Barr, M, Jr, DeSesso, J M, Lau, CS, Osmond, C, Ozanne, SE. Sadler, TW, Simmons, RA and Sonawane, B. R. Workshop to identify critical windows of exposure for children's health: cardiovascular and endocrine work group summary. **Environmental Health Perspectives.** 108 Suppl 3: 69-571, 2000.

Barton, HA, Cogliano, VJ, Flowers, L, Valcovic, L, Setzer, RW and Woodruff, TJ. Assessing susceptibility from early-life exposure to carcinogens. **Environmental Health Perspectives** 113: 1125-1133, 2005.

Bastain TM, Gilliland FD, Li Y-F, Saxon A and Diaz-Sanchez D. Intra-individual reproducibility of nasal allergic responses to diesel exhaust particles indicates a susceptible phenotype. **Clinical Immunology** 109: 130-136, 2003 (NCER).

Bates, MN, Selevan, SG, Ellerbee, SM and Gartner, LM. Reporting needs for studies of environmental chemicals in human milk. **Journal of Toxicology and Environmental Health** 65:1967-79, 2002.

Bauman, MD, Lavenex, P, Mason, WA, Capitanio, JP and Amaral, K. The development of

mother-infant interactions after neonatal amygdala lesions in rhesus monkeys. **Journal of Neuroscience** 24:711-721, 2004 (NCER).

Bayliss, D and Sonawane, B. Issues for discussion: benzene-induced leukemia--human studies. **Journal of Toxicology and Environmental Health** A61: 467-470, 2000.

Bearer, CF, Linsalata, N, Yomtovian, R, Walsh, M, and Singer, L. Blood transfusions: a hidden source of lead exposure. Lancet 362:332-333, 2003 (NCER).

Bearer, CF. Meconium as a biological marker of prenatal exposure. **Ambulatory Pediatrics** 3: 40-43, 2003 (NCER).

Bearer CF, Jacobson JL, Jacobson SW, Barr D, Croxford J, Molteno CD, Viljoen DL, Marais AS, Chiodo LM, Cwik AS. Validation of a new biomarker of fetal exposure to alcohol. **Journal of Pediatrics** 143:463-469, 2003 (NCER).

Bearer, CF, Santiago, LM, O'Riordan, MA, Buck, K, Lee, SC and Singer, LT. Fatty Acid ethyl esters: quantitative biomarkers for maternal alcohol consumption. **Journal of Pediatrics** 146:824-830, 2005 (NCER).

Becker, S, WA Clapp, J Quay, KL Frees, HS Koren and Schwartz, DA. Compartmentalization of the inflammatory response to inhaled grain dust. American Journal of Respiratory and Critical Care Medicine 160:1309-1999.

Beck-Speier, I, Dayal, N, Darg, E, Maier, KL, Schumann, G, Schulz, H, Semmler, M, Takenaka, S, Stettmaier, K, Bors, W, Ghio, A, Samet, JM and Heyder, J. Oxidative stress and lipid mediators induced in alveolar macrophages by ultirafine particles. **Free Radical Biology and Medicine** 38: 1080-1092, 2005.

Belinsky, SA, Kling, DM, Dekker, JD, Smith, MW, Bocklage, TJ, Gilliland, FD, Crowell, RE, Karp, DD, Stidley, CA and Picchi, MA. Gene promoter methylation in plasma and sputum increases with lung cancer risk. **Clincal Cancer Research** 15: 6505-6511, 2005 (NCER).

Bell, ML, Dominici, R and Samet, JM. A meta-analysis of time-series studies of ozone and mortality with comparison to the national morbidity, mortality, and air pollution study. **Epidemiology** 16:436-45, 2005.

Berhane, K and Thomas, D. A two-stage model for time series data of counts from many sites. **Biostatistics** 3:21-32, 2002 (NCER).

Berhane, K, McConnell, R, Gilliland, F, Islam, T, Gauderman, WJ, Avol, E, London, SJ, Rappaport, E, Margolis, HG and Peters, JM. Sex-specific effects of asthma on pulmonary function in children. **American Journal of Respiratory and Critical Care Medicine** 162:1723-1730, 2000 (NCER).

Berkowitz, GS, Wolff, MS, Matte, T, Susser, E and Landrigan, PJ. The rationale for a national prospective cohort study of environmental exposure and childhood development. **Environmental Research** 95:59-68, 2001 (NCER).

Berkowitz GS, Wetmur JG, Birman-Deych E, Obel J, Lapinsk RH, Godbold JH, Holzman IR and Wolff MS. In utero pesticide exposure, maternal paraoxonase activity, and head circumference. **Environmental Health Perspectives** 112: 388-391, 2004 (NCER).

Berkowitz, GS, Wolff, MS, Janevic, TM, Holzman, IR, Yehuda, R and Landrigan, PJ. The World Trade Center disaster and intrauterine growth restriction. **Journal of The American Medical Association** 290:595-596, 2003 (NCER).

Berkowitz, GS, Obel, J, Deych, E, Lapinski, R, Godbold, J, Zhisong, L and Landrigan, PJ. Exposure to indoor pesticides during pregnancy in a multiethnic, urban cohort. **Environmental Health Perspectives** 111:79-84, 2003 (NCER).

Berkowitz, GS, Wetmur, JG, Birman-Deych, E, Obel, J, Lapinski, RH, Godbold, JH, Holzman, IR, and Wolff, MS. In utero pesticide exposure, maternal paraoxonase activity, and head circumference. **Environmental Health Perspectives** 112: 388-391, 2004 (NCER).

Berlin, CM, Jr, LaKind, JS, Sonawane, BR, Kacew, S, Borgert, C, Bates, M, Birnbach, N, Campbell, R, Dermer, A, Dewey, K, Ellerbee, S, Furst, P, Giacoia, G, Gartner, L, Groer, M Haynes, S. G., Humerick, S. S., Lawrence, R. A., Lorber, M., Lovelady, C., Mason, A., Needham, L, Picciano, M., Plautz, J, Ryan, J, Selevan, S, Sumaya, C, Tully, M, Uhl, K, Vesell, E and Wilson, J. Conclusions, research needs, and recommendations of the expert panel: technical workshop on human milk surveillance and research for environmental chemicals in the United States. Journal of Toxicology and Environmental Health A65: 1929-1935, 2002.

Berlin, CM, LaKind, JS, Fenton, SE, Wang, RY, Bates, MN, Brent, RL, Condon, M, Crase, BL, Dourson, ML, Ettinger, AS, Foos, B, Furst, P, Giacoia, GP, Goldstein, DA, Haynes, SG, Hench, KD, Kacew, S, Koren, G, Lawrence, RA, Mason, A, McDiarmid, MA, Moy, G, Needham, LL, Paul, IM, Pugh, LC, Qian, Z, Salamone, L, Selevan, SG, Sonawane, B, Tarzian, AJ, Rose Tully, M and Uhl, K. Conclusions and recommendations of the expert panel: technical workshop on human milk surveillance and biomonitoring for environmental chemicals in the United States. **Journal of Toxicology and Environmental Health A** 68: 1825-1831, 2005.

Bernstein, JA, Alexis, N, Barnes, C, Bernstein, KL, Bernstein, JA, Nel, A, Peden, D, Diaz-Sanchez, D, Tarlo, SM and Williams, PB. Health effects of air pollution. Journal of Allergy and Clinical Immunology 114: 1116-1123, 2004.

Berrington de Gonzalez, A and Samet, JM. What are the cancer sisks from using chest computed tomography to manage cystic fibrosis. **American Journal of Respiratory and Critical Care Medicine** 15: 173: 139-140, 2006.

Bocskay, KA, Tang, D, Orjuela, MA, Liu, X, Warburton, D and Perera, FP. Chromosomal aberrations in cord blood are associated with prenatal exposure to carcinogenic polycyclic aromatic hydrocarbons. **Cancer Epidemiology, Biomarkers and Prevention** 14:506-11, 2005 (NCER).

Boehlecke, B, Hazucha, M, Alexis, NE, Jacobs, R, Reist, P, Bromberg, PA and Peden, DB. Lowdose airborne endotoxin exposure enhances bronchial responsiveness to inhaled allergen in atopic asthmatics. Journal of Allergy and Clinical Immunology 112: 1241-1243, 2003.

Bodensteiner, KJ, Sawyer, HR, Moeller, CL, Kane, CM, Pau, KY, Klinefelter, GR and Veeramachaneni, DN. Chronic exposure to dibromoacetic acid, a water disinfection byproduct, diminishes primordial follicle populations in the rabbit. **Toxicological Sciences** 80:83-91, 2004.

Borrell, LN, Factor-Litvak, P, Wolff, M, Susser, E and Matte, TD. Effect of socioeconomic status on exposures to polychlorinated biphenyls (PCBs) and dichlorodiphenyldichloroethylene (DDE) among pregnant African-American women. **Archives of Environmental Health** 59: 250-255, 2004 (NCER).

Bradman, A, Eskenazi, B, Sutton, P, Athanasoulis, M and Goldman LR. Iron deficiency associated with higher blood lead in children living in contaminated environments. **Environmental Health Perspectives** 109:1084-2001, 2001 (NCER).

Bradman A and Whyatt RM. Characterizing exposures to nonpersistent pesticides during pregnancy and early childhood in the National Children's Study: a review of monitoring and measurement methodologies. **Environmental Health Perspectives** 113: 1092-1099, 2005 (NCER).

Bradman, A, Barr, D, Claus, B, Drumheller, T, Curry, C and Eskenazi, B. Measurement of pesticides and other toxicants in amniotic fluid as a potential biomarker of prenatal exposure: A validation study. **Environmental Health Perspectives** 111:1779-1782, 2003 (NCER).

Bradman, A, Eskenazi, B, Barr, DB, Bravo, R, Castorina, R, Chevrier, J, Kogut, K, Harnly, M and McKone, TE. Organophosphate urinary metabolite levels during pregnancy and after delivery in women living in an agricultural community. **Environmental Health Perspectives** 113: 1802-1807, 2005 (NCER).

Bradman, A, Chevrier, J, Tager, I, Lipsett, M, Sedgwick, J, Macher, J, Vargas, AB, Cabrera, EB, Camacho, JM, Weldon, R, Kogut, K, Jewell, NP and Eskenazi, B. Association of housing disrepair indicators with cockroach and rodent infestations in a cohort of pregnant Latina women and their children. **Environmental Health Perspectives** 113: 1795-1801, 2005 (NCER).

Branum, AM, Collman, GW, Correa A, Keim, SA, Kessel W, Kimmel CA, Klebanoff, MA, Longnecker MP, Mendola P, Rigas M, Selevan, SG, Scheidt, PC, Schoendorf, K, Smith-Khuri, E and Yeargin-Alsopp, M. The National Children's Study of environmental effects on child health and development. **Environmental Health Perspectives** 111:642-646, 2003.

Brauer, J., Hruba, F, Mihailikova, E, Fabianova, E, Miskovic, P, Plzikova, A, Lendacka, M, Vandenberg, J and Cullen, A. Personal exposure to particles in Banska Bystrica, Slovakia. **Journal of Exposure Analysis and Environmental Epidemiology** 10: 478-487, 2000.

Brenner, B. Implementing a community intervention program for health promotion. **Social Work in Health Care** 35: 359-379, 2002 (NCER).

Brenner, BL, Markowitz, S, Rivera, M, Romero, H, Weeks, M, Sanchez, E, Deych, E, Garg, A, Godbold, J, Wolff, MS, Landrigan, PJ and Berkowitz, G. Integrated pest management in an urban community: a successful partnership for prevention. **Environmental Health Perspectives** 111:1164 -1653, 2003 (NCER).

Breslau N, Chilcoat HD, Susser ES, Matte T, Liang KY and Peterson EL. Stability and change in children's intellingence quotient scores: a comparison of two socioeconomically disparate communities. **American Journal of Epidemiology** 154:711-717, 2001 (NCER).

Breysse, P, Farr, N, Galke, W, Morley, R, Lanphear, BP and Bergofsky, L. The relationship between housing and health children at risk. **Environmental Health Perspectives**. 112:1583 – 1588, 2004 (NCER).

Breysse PN, Buckley TJ, Williams D, Beck CM, Jo SJ, Merriman B, Kanchanaraksa S, Swartz LJ, Callahan KA, Butz AM, Rand CS, Diette GB, Krishnan J, Moseley AM, Curtin-Brosnan J, Durkin NB and Eggleston PA. Indoor exposures to air pollutants and allergen in the homes of asthmatic children in inner-city Baltimore. **Environmental Research** 98: 167-176, 2005 (NCER).

Brinkman, NE, Haugland, RA, Wymer, LJ, Byappanahalli, M, Whitman, RL and Vesper, SJ. Evaluation of a rapid, quantitative real-time PCR method for cellular enumeration of pathogenic Candida species in water. **Applied and Environmental Microbiology** 69:1775-1782, 2003.

Britton, JA, Wolff, MS, Lapinski, R, Forman, J, Hochman, S, Kabat, GC, Godbold, J, Larson, S and Berkowitz, GS. Characteristics of pubertal development in a multi-ethnic population of nine-year-old girls. **Annals of Epidemiology** 14:179-187, 2004 (NCER).

Brophy V, Jarvik G, Richter R, Rozek L, Schellenberg G and Furlong C. Analysis of paraoxonase (PON1) L55M status requires both genotype and phenotype. **Pharmacogenetics** 10: 453-460, 2000 (NCER).

Brophy, VH, Jampsa, RL, Clendenning, JB and McKinstry, LA. Effects of 5' regulatory-region polymorphisms on paraoxonase-gene (PON1) expression. **American Journal of Human Genetics**. 68: 1428-1436, 2001 (NCER).

Brophy, VH, Hastings, MD, Clendenning, JB and Richter, RJ. Polymorphisms in the human paraoxonase (PON1) promoter. **Pharmacogenetics** 11:77-84, 2001 (NCER).

Brophy V, Jampsa R, Richter R, Jarvik G and Furlong C. Paraoxonase (PON1) regulatory region polymorphisms affect activity level. **Toxicological Sciences** 60(Supp): 51, 2001 (NCER).

Buck, GM, Vena, JE, Mendola, P, Schisterman, EF, Sever, LE, Fitzgerald, E, Kostyniak, PJ, Greizerstein, H and Olson, JR. Parental consumption of polychlorinated biphenyl contaminated sport fish from Lake Ontario and reduced fecundability. **Epidemiology** 11: 388-393, 2000

Buck, RJ, Özkaynak H, Xue J, Zartarian VG and Hammerstrom K. Modeled estimates of

chlorpyrifos exposure and dose for the Minnesota and Arizona NHEXAS populations. **Journal of Exposure Analysis and Environmental Epidemiology** 11:253-268, 2001.

Buck, GM, Vena, JE, Greizerstein, HB, Weiner, JM, McGuinness, B, Mendola, P, Swanson, M, Bloom, MS and Olson, JR. PCB congeners and pesticides and female fecundity, New York State Angler Prospective Pregnancy Study. **Environmental Toxicology and Pharmacology** 12: 83-92, 2002.

Buck, GM, Lynch, CD, Stanford, JB, Sweeney, AM, Schieve, LA, Rockett, JC, Selevan, SG and Schrader, SM. Prospective pregnancy study designs for assessing reproductive and developmental toxicants. **Environmental Health Perspectives** 112:79-86, 2004.

Buck, GM, Weiner, JM, Whitcomb, BW, Sperrazza, R, Schisterman, EF, Lobdell, DT, Crickard, K, Greizerstein, H and Kostyniak PJ. Environmental PCB exposure and risk of endometriosis. **Human Reproduction**, in press, 2006.

Burbacher, TM and Grant, KS. Methods for studying nonhuman primates in neurobehavioral toxicology and teratology. **Neurotoxicology and Teratology** 22:475–486, 2000 (NCER).

Burke, JM, Zufall MJ and Özkaynak H. A population exposure model for particulate matter: case study results for PM<sub>2.5</sub> in Philadelphia, PA. **Journal of Exposure Analysis and Environmental Epidemiology** 11:470-489, 2001.

Burry M, Guizzetti M, Oberdoerster J and Costa L. Developmental neurotoxicity of toluene: in vivo and in vitro effects on astrolglial cells. **Developmental Neuroscience** 25: 14-19, 2003 (NCER).

Butler, CD, Corvalan, C and Koren, H. Human health and well-being in global ecological scenarios. **Ecosystems**, in press, 2006.

Butz A, Eggleston P, Huss K and Kolodner K. Nebulizer use in inner-city children with asthma morbidity, medication use, and asthma management practices. Archives of Pediatrics and Adolescent Medicine 154:984-990, 2000 (NCER).

Butz AM, Reikert KA, Eggleston P, Winkelstein M, Thompson RE and Rand C. Factors associated with preventative asthma care in inner city children. **Clinical Pediatrics** 43:709-719, 2004 (NCER).

Calderon-Garciduenas, L, Mora-Tiscareno, A, Chung, CJ, Valencia, G, Fordham, LAl, Garcia, R, Osnaya, N, Romero, L, Acuna, H, Villarreal-Calderon, A, Devlin, R and Koren, HS. Exposure to air pollution is associated with lung hyperinflation in healthy children and adolescents in Southwest Mexico City: a pilot study. **Inhalation Toxicology** 12: 537-561, 2000.

Calderón-Garcidueñas, L, Mora-Tiscareño, A, Foreham, L, Chung, C, Garcia, R, Osnaya, N, Hernandez, J, Acuña, H, Gamblin, T, Villarreal-Calderón, A, Carson, J, Koren, H and Devlin, R. Canines as sentinel species for assessing chronic exposures to air pollutants. Part I. Respiratory Pathology. Toxicological Sciences 61:342-355, 2001.

Calderon, RJ, Abernathy, CO and Thomas, DJ. Consequences of acute and chronic exposure to arsenic in children. **Pediatric Annals** 33: 461-466, 2004.

Callahan KA, Eggleston PA, Rand CS, Kanchanaraksa S, Swartz LJ and Wood RA. Knowledge and practice of dust mite control by specialty care. **Annals of Allergy Asthma and Immunology** 90: 302-307, 2003 (NCER).

Campuzano, JC, Hernandez-Avila, M, Jaakkola, MS, Luzcano-Ponce, E, Duri-Morales, P, Bautista, P, Benowitz, NL, Ceraso, M Blackford, A and Samet, JM. Determinants of salivary cotinine levels among current smokers in Mexico. **Nicotine and Tobbaco Research** 6:997-1008, 2004.

Cancel, AM, Lobdell, DT, Mendola ,P and Perreault, SD. Objective Evaluation of Hyperactivated Motility in Rat Spermatozoa Using Computer-Assisted Sperm Analysis. **Human Reproduction** 15:1322-1328, 2000.

Canfield, RL, Henderson, CR, Cory Slechta, DA, Cox, C, Jusko, TA and Lanphear, BP. Intellectual impairment in children with blood lead concentrations below 10 micrograms per deciliter. **New England Journal of Medicine** 348:1517-1526, 2003 (NCER).

Carlson, CS, Heagerty, PJ, Hatsukami, TS, Richter, RJ, Ranchalis, J, Lewis, J, Bacus, TJ, McKinstry, LA, Schellenberg, GD, Rieder, M, Nickerson, D, Furlong, C, Chait, A and Jarvik, GP. TagSNP and haplotype analyses of the paraoxonase gene cluster: effects on PON1 activity, LDL oxidative susceptibility, and carotid artery disease. **Journal of Lipid Research,** in press, 2006 (NCER).

Carlton, E, Moats, HL, Feinberg, M, Shepard, P, Garfinkel, R, Whyatt, RM and Evans, D. Pesticide sales in low-income, minority neighborhoods: A survey by the Columbia Center for Children's Environmental Health and its community partners. **Journal of Community Health** 29: 231 – 44, 2004 (NCER).

Carmichael, SL, Shaw, GM, Wang, W and Lammer, EJ. Maternal periconceptional alcohol consumption and risk of conotruncal heart defects. **Birth Defects Research A Clinical and Molecular Teratology** 67:875-878, 2003 (NCER).

Carpenter, DO, Chew, FT, Damstra, T, Lam, LH, Landrigan, PJ, Makalinao, I, Peralta, GL and Suk, WA. Environmental threats to the health of children: The Asian perspective. **Environmental Health Perspectives** 108:989-992, 2000 (NCER).

Castorina, R and Woodruff ,TJ. Assessment of potential risk levels associated with EPA reference values. **Environmental Health Perspectives** 111: 1318 – 1325, 2003 (NCER).

Castorina, R, Bradman, A, McKone, TE, Barr, DB, Harnly, ME and Eskenazi, B. Cumulative organophosphate pesticide exposure and risk assessment among pregnant women living in an agricultural community: a case study from the CHAMACOS cohort. **Environmental Health** 

**Perspectives** 111: 1640 – 1648, 2003 (NCER).

Caughlan A, Newhouse K, Namgung U and Xia Z. Chlorpyrifos induces apoptosis in rat cortical neurons that is regulated by a balance between p38 and ERK/JNK MAP kinases. **Toxicological Sciences** 78: 125-134, 2004 (NCER).

Cecil, KM, DeGrauw, TJ, Salomons, GS, Jakobs, C, Egelhoff, JC and Clark, JF. Magnetic resonance spectroscopy in a 9 dayold heterozygous female child with creatine transporter deficiency. **Journal of Computer Assisted Tomography** 27:44-47, 2003 (NCER).

Cecil,KM, Del Bello, MP, Sellars, MC and Strakowski, SM. Proton magnetic resonance spectroscopy of the frontal lobe and cerebellar vermis in children with a mood disorder and a familial risk for bipolar disorders. **Journal of Child and Adolescent Psychopharmacology** 13: 545-555, 2003 (NCER).

Chanda, SM, Lassiter, TL, Moser, VC, Barone, S Jr and Padilla S. Tissue carboxylesterases and chlorpyrifos toxicity in the developing rat. **Human Ecology and Risk Assessment** 8:75-90, 2002.

Chapman, RS, Hadden, WC and Perlin, SA. Influences of asthma and household environment on lung function of children and adolescents: The Third National Health and Nutrition Examination Survey. **American Journal of Epidemiology** 158: 175-189, 2003.

Charlap, JH, Craig, RC, O'Hara, MF and Knudsen, TB. Toxicogenomic characterization of a biological threshold in developmental toxicity. **Teratology** 63:281, 2001(NCER).

Charlap, JH, Nemeth, KR, Craig, RC and Knudsen, TB. Microarray analysis of gene expression in the mouse embryonic headfold following exposure to Bzrp ligands. **Teratology** 65:333, 2002 (NCER).

Chen, A, Zhang, J, Zhou, L, Gao, E, Chen, L, Rogan, WJ and Wolff, MS. DDT serum concentration and menstruation among young Chinese women. **Environmental Research** 99: 397-402, 2005 (NCER).

Chen, D, Cho, SI, Chen, C, Wang, X, Damokosh, A, Smith, TJ, Christiani, DC and Xu, X. Benzene exposure, occupational stress, and reduced birthweight. **Occupational and Environmental Medicine** 57:661-667, 2000 (NCER).

Chen, J, Germer, S, Higuchi, R, Berkowitz, G, Godbold, J, and Wetmur, JG. Kinetic polymerase chain reaction on pooled DNA: a high-throughput, high-efficiency alternative in genetic epidemiological studies. **Cancer Epidemiology, Biomarkers, and Prevention** 11: 131-136. 2002 (NCER).

Chen, J, Kumar, M, Chan, W, Berkowitz, G and Wetmur, JG. Increased influence of genetic variation on PON1 enzymatic activity in neonates. **Environmental Health Perspectives** 111:1403-1409, 2003 (NCER).

Chen, J, Chan, W, Wallenstein, W, Berkowitz, G, Wolff, MS, and Wetmur, JG. Haplotypephenotype relationships of paraoxonase-1 (PON1). Cancer Epidemiology Biomarkers and Prevention 14, 731-734, 2005 (NCER).

Chen, J, Gammon, MD, Chan, W, Palomeque, C, Wetmur, JG, Dabat, GC, Teitelbaum, SL, Britton, JA, Terry, MB, Neugut, AI and Santella, RM. One-carbon metabolism, MTHFR polymorphisms and risk of breast cancer. **Cancer Research** 65: 1606-1614, 2005 (NCER).

Chen, LL, Tager, IB, Peden, DB, Christian, DL, Ferrando, RE, Welch, BS and Balmes, JR. Effect of ozone exposure on airway responses to inhaled allergen in asthmatic subjects. **Chest** 125:2328-2335, 2004.

Chen, W and Hunninghake, GW. Effects of ragweed and TH-2 cytokines on the secretion of IL-8 by human airway epithelial cells. **Experimental Lung Research** 26:229-239, 2000 (NCER).

Chen, W, Monick, MM, Carter, AB and Hunninghake, GW. Activation of ERK2 by respiratory syncytial virus in A549 cells is linked to the production of Interleukin 8. **Experimental Lung Research** 6:13-26, 2000 (NCER).

Chernoff, N and Rogers, JM. Supernumerary ribs in developmental toxicity bioassays and in human populations: increase and biological significance. Journal of Toxicology and Environmental Health B Critical Reviews 7: 437-439, 2004.

Chew, GL, Perzanowski, MS, Miller, RL, Correa, JC, Hoepner, LA, Jusinom CM, Beckerm MG and Kinney, PL. Distribution and determinants of mouse allergen exposure in low-income New York City apartments. **Environmental Health Perspectives** 111: 1348 – 1351, 2003 (NCER).

Chew G, Carlton E, Kass D, Hernandez M, Clarke B, Tiven J, Garfinkel R, Evans D. Determinants of cockroach and mouse exposure and associations with asthma among families and the elderly living in New York City public housing. **Annals of Allergy, Asthma and Immunology**, in press, 2005 (NCER).

Cho HY, Zhang LY and Kleeberger SR. Ozone -induced lung inflammation and hyperactivity are mediated via tumor necrosis factor-A receptors. **American Journal of Physiology-Lung Cellular and Molecular Physiology** 280:537-546, 2000 (NCER).

Cho HY, Jedlicka AE, Reddy SPM, Kensler TW, Yamamoto M, Zhang LY and Kleeberger SR. Role of Nrf2 in protection against hyperoxia lung injury in mice. **American Journal of Respiratory Cell and Molecular Biology** 26: 175-182, 2002 (NCER).

Cho HY, Jedlicka AE, Reddy SPM, Zhang LY, Kensler TW and Kleeberger SR. Linkage analysis of susceptibility to hyperoxia: *Nrf2* is a candidate gene. **American Journal of Respiratory Cell and Molecular Biology** 26: 42-51, 2002 (NCER).

Chuang, J, Pollard, MA, Misita, M, and Van Emon, JM. Evaluation of analytical methods for determining pesticides in baby food. **Analytica Chmica Acta** 399: 135-142, 1999.

Chuang, JC, Hart, K, Chang, JS, Boman, LE, Van Emon, JM and Reed, AW. Evaluation of analytical methods for determining pesticides in baby foods and auldt duplicate-diet samples. **Analytical Chimica Acta** 444: 87-95, 2001.

Chung, YJ, Coates, NH, Viana, ME, Copeland, L, Vesper, SJ, Selgrade, MJ and Ward, MD. Dose-dependent allergic responses to an extract of Penicillium chrysogenum in BALB/c mice. **Toxicology** 209: 77-89, 2005.

Clark, NM, Brown, RW, Parker, E, Robins, TG, Remick, Jr, DG, Philbert, MA, Keeler, GJ and Israel, BA. Childhood asthma. **Environmental Health Perspectives** 107: 421-429, 1999 (NCER).

Claudio L. Environmental aftermath of World Trade Center disaster. **Environmental Health Perspectives** 109: 528-536, 2001 (NCER).

Claudio L. Reaching out to the next generation of scientists. **National Education Association Journal** 17: 77-86, 2001 (NCER).

Claudio, L. Making progress on breast cancer. **Environmental Health Perspectives** 114: A98-A99, 2006.

Claudio, L, Stingone, JA and Godbold, J. Prevalence of childhood asthma in urban communities: The impact of ethnicity and income. **Annals of Epidemiology**, in press, 2005.

Claudio, L, Tulton, L, Doucette, J and Landrigan, PJ. Socioeconomic factors and asthma hospitalization rates in New York City. **Journal of Asthma** 36: 343 – 350, 1999 (NCER).

Claudio, L, Bearer, CF and Wallinga, D. Assessment of the US Environmental Protection Agency methods for identification of hazards to developing organisms, Part II: The developmental toxicity testing guideline. **American Journal of Industrial Medicine** 35: 554 – 563, 1999 (NCER).

Claudio, L, Kwa, WC, Russell, AL and Waalinga, D. Testing methods for developmental neurotoxicity of environmental chemicals. **Toxicology and Applied Pharmacology** 164: 1 – 14, 2000 (NCER).

Cohen, AJ, Ross-Anderson, H, Ostro, B, Pandey, KD, Krzyzanowski, M, Kunzli, N, Gutschmidt, K, Pope, A, Romieu, I, Samet, JM and Smith, K. The global burden of disease due to outdoor air pollution. Journal of Toxicology and Environmental Health A 68: 1301-1307, 2005.

Cohen Hubal, EA. Issues in dermal exposure of infants. **Journal of Children's Health** 2: 253-266, 2004.

Cohen Hubal, EA, Sheldon, LS, Zufall, MJ, Burke, JM and Thomas, K. The challenge of assessing children's residential exposure to pesticides. **Journal of Exposure Analysis and** 

## Environmental Epidemiology 10:638-649, 2000.

Cohen Hubal, EA, Sheldon, LS, Burke, JM, McCurdy, TR, Berry, MR, Rigas, ML, Zartarian, VG and Freeman, NCG. Children's exposure assessment: A review of factors influencing children's exposure, and the data available to characterize and assess that exposure. **Environmental Health Perspectives** 108: 475-486, 2000.

Cohen Hubal, EA, Egeghy, P, Leovic, K and Akland, G. Measuring potential dermal transfer of a pesticide to children in a daycare center. **Environmental Health Perspectives** 114: 264-269, 2006.

Cohn, BC, Cirillo, PM, Wolff, MS, Schwingl, PJ, Cohen, RD, Sholtz, RI, Ferrara, A, Christianson, RE, van den Berg, BJ and Siiteri, PK. In utero DDT and DDE exposure may alter time to pregnancy in daughters 30 years later. **Lancet** 361: 2205-2006, 2003 (NCER).

Cole T, Jampsa R, Walter B, Arndt T, RIchter R, Shih D, Tward A, Lusis A, Jack R, Costa L and Furlong C. Expression of human paraoxonase (PON1) during development. **Pharmacogenetics** 13: 357-364, 2003 (NCER).

Cole T, Li W, Richter R, Furlong C and Costa L. Inhibition of paraoxonase (PON1) by heavy metals. **Toxicological Sciences** 66(Suppl. 1): 312, 2002 (NCER).

Cole T, Walter B, Costa L, Richter R, Pettan-Brewer C, Shih D, Tward A, Lusis A and Furlong C. Contribution of paraoxonase (PON1) levels and Q192R genotype to organophosphate detoxication: evidence from humans and "humanized" transgenic mice. **Toxicological Sciences** 72(Suppl. 1): 100, 2003 (NCER).

Cole, T, Walter, B, Shih, DM, Tward, AD, Lusis, AJ, Timchalk, C, Richter, RJ, Costa, LG and Furlong, CE. Toxicity of chlorpyrifos and chlorpyrifos oxon in a transgenic mouse model of the human paraoxonase (PON1) Q192R polymorphism. **Pharmacogenetics and Genomics** 15: 589-598, 2005 (NCER).

Coronado G, Thompson B, Strong L, Griffith W and Islas I. Agricultural task and exposure to organophosphate pesticides among farmworkers. **Environmental Health Perspectives** 112: 142-147, 2004 (NCER).

Cory-Slechta, DA, Crofton, KM, Sheets, LP, Ross, JF, Weiss, B and Foran, JA. Methods to identify and characterize developmental neurotoxicity for human health risk assessment I: Behavioral effects. **Environmental Health Perspectives** 109 (Suppl. 1):79-92, 2001.

Coscia, JM, Ris, MD, Succop, P and Dietrich, KN. Neurodevelopment of lead exposed children from ages 6 to 15 years an application of growth curve analysis. **Child Neuropsychology** 9: 10 -21, 2003 (NCER).

Costa, LG. The emerging field of ecogenetics. NeuroToxicology 21: 85 – 89, 2000 (NCER).

Costa, L. Pesticide exposure: differential risk for neurotoxic outcomes due to enzyme polymorphisms. **Clinical and Occupational Environmental Medicine** 1: 511 – 523, 2001 (NCER).

Costa, LG, Li, WF and Richter, RJ. The role of paraoxonase (PON1) in the detoxication of organophosphates and its human polymorphism. **Chemical and Biological Interactions** 119: 429 – 438, 1999 (NCER).

Costa, LG, Guizetti, M and Burry, M. Developmental neurotoxicity: do similar phenotypes indicate a common mode of action? A comparison of fetal alcohol syndrome, toluene embryopathy and maternal phenylketonuria. **Toxicological Letters** 127: 197 – 205, 2002 (NCER).

Costa L, Cole T and Furlong C. Polymorphisms of paraoxonase (PON1) and their significance in clinical toxicology of organophosphates. **Journal of Toxicology-Clinical Toxicology** 41: 37-45, 2003 (NCER).

Costa, L, Cole, T and Furlong, C. Paraoxonase (PON1): from toxicology to cardiovascular medicine. **Acta Biomed Ateneo Parmense** 76 Suppl 2:50-57, 2005 (NCER).

Costa L, Li W, Richter R, Shih D, Lusis A and Furlong C. The role of paraoxonase (PON1) in the detoxication of organophosphates and its human polymorphism. **Chemical and Biological Interactions** 119-120: 429-38, 1999 (NCER).

Costa L, Guizzetti M, Lu H, Bordi F, Vitalone A, Tita B, Palmery M, Valeri P and Silvestrini B. Intracellular signal transduction pathways as targets for neurotoxicants. **Toxicology** 160: 19-26, 2001 (NCER).

Costa L, Guizzetti M, Burry M and Oberdoerster J. Developmental neurotoxicity: do similar phenotypes indicate a common mode of action? A comparison of fetal alcohol syndrome, toluene embryopathy and maternal phenylketonuria. **Toxicology Letters** 127: 197-205, 2002 (NCER).

Costa L, Aschner M, Vitalone A, Syverson T and Soldin O. Developmental neuropathology of environmental agents. **Annual Review of Pharmacology and Toxicology** 44: 87-110, 2004.

Costa L, Cole T, Jarvik G and Furlong C. Functional genomics of the PON1 polymorphisms: Effects on pesticide sensitivity, cardiovascular disease, and drug metabolism. **Annual Review of Medicine** 54: 371-392, 2003 (NCER).

Costa L, Richter R, Li W, Cole T, Guizzetti M and Furlong C. Paraoxonase (PON1) as a biomarker of susceptibility for organophosphate toxicity. **Biomarkers** 8: 1-12, 2003 (NCER).

Costa LG, Aschner M, Vitalone A, Syversen T and Soldin OP. Developmental neuropathology of environmental agents. **Annual Review of Pharmacology and Toxicology** 44: 87-110, 2004 (NCER).

Costa LG, Cole TB, Vitalone A and Furlong CE. Measurement of paraoxonase (PON1) status as

a potential biomarker of susceptibility to organophosphate toxicity. **Clinica Chimica Acta** 352: 37-47, 2005 (NCER).

Costa LG, Vitalone A, Cole TB and Furlong CE. Modulation of paraoxonase (PON1) activity. **Biochemical Pharmacology**\_69: 541-550. 2005, (NCER).

Coussons-Read, ME, Daniels, M and Gilmour, MI. Morphine reduces pulmonary inflammation in response to influenza virus infection. **Life Sciences**.65: 1141-1152, 1999.

Creason, J, Neas, L, Shy, C, Williams, R, Sheldon, L, Liao, D and Walsh, D. Particulate matter and heart rate among elderly retirees: The Baltimore 1998 PM study. **Journal of Exposure Analysis and Environmental Epidemiology** 11:116-122, 2001.

Croen, LA, Grether, JK, Yoshida, CK, Odouli, R and Van de Water, J. Maternal autoimmune diseases, allergy and asthma and childhood autism. Archives of Pediatrics and Adolescent Medicine 159:151-157, 2005 (NCER).

Croen, LA, Yoshida, CK, Odouli, R and Newman, TB. Neontal hyperbilirubinemia and risk of autism spectrum disorders. **Pedicatrics** 115: 135-138, 2005.

Crofton, KM. Bromate: A concern for developmental neurotoxicity? Toxicology, in press, 2006.

Crofton, KM, Makris , SL, Sette, WF, Mendez, E and Raffaele, KC. A qualitative retrospective analysis of positive control data in developmental neurotoxicity studies. **Neurotoxicology and Teratology** 26:345-352, 2004.

Curl,CL, Fenske, RA, Kissel, JC, Shirai, JH, Moate, TF, Griffith, W, Coronado, G and Thompson, B, Evaluation of take-home organophosphorus pesticide exposure among agricultural workers and their children. **Environmental Health Perspectives** 110: A787 - A792, 2002 (NCER).

Curl, CL, Fenske, RA and Elgethun, K. Organophosphorus pesticide exposure of urban and suburban preschool children with organic and conventional diets. **Environmental Health Perspectives** 111: 377 – 382, 2003 (NCER).

Daniels, MJ, Selgrade, MJK, Doerfler, D and Gilmour, M.I. Kinetic profile of influenza virus infection in three different rat strains. **Comparative Medicine** 53: 293-298, 2003.

Das, KP and Barone S. Jr. Neuronal differentiation in PC12 cells is inhibited by chlorpyrifos or its metabolites: Is acetylcholinesterase inhibition the site of action? **Toxicology and Applied Pharmacology** 160:217-230, 1999.

Das, K, Freudenrich, T and Mundy, WR. Assessment of PC12 cell differentiation and neurite growth: a comparison of morphological and neurochemical measures. **Neurotoxicology and Teratology** 26:397-406, 2004.

Das, K, Chao, S, White, LD, Haines, W, Tilson, HA, Harry, J and Barone, S Jr. Differential patterns of nerve growth factor, brain derived growth factor, and NT-3 mRNA and protein levels in developing regions of the rat brain. **Neuroscience** 103:739-761, 2000.

Daston, G, Faustman, E, Ginsberg, G, Fenner-Crisp, P, Olin, S, Sonawane, B, Bruckner, J, Breslin, W and McLaughlin, TJ. A framework for assessing risks to children from exposure to environmental agents. **Environmental Health Perspectives** 112:238-256, 2004.

Dean, TR, Betancourt, D and Menetrez, MY. A rapid DNA extraction method for PCR identification of fungal indoor air contaminants. **Journal of Mircrobiological Methods** 56:431-434, 2004.

1Dearry AD, Collman GW, Saint C, Fields N and Redd S. Introduction: Building a network of research in children's environmental health. **Environmental Health Perspectives** 107 (Suppl 3):391-392, 1999.

Dejmek, J, Selevan, SG, Beneš, I, Solansky, I and Šrám, R. Fetal growth and maternal exposure to particulate matter during pregnancy. **Environmental Health Perspectives** 107: 475-80, 1999.

DeMarini, D. Genotoxicity of tobacco smoke and tobacco smoke condensate: a review. **Mutation Research** 567-447-474, 2004.

DeMairni, D and Preston, J. Smoking while pregnant: transplancental mutagenesis of the fetus by tobacco smoke. **Journal of the Americal Medical Association** 293: 1264-1265, 2005.

DeMarini, DM, Shelton, ML, Kohan, MJ, Hudgens, EE, Kleindienst, TE, Ball, LM, Walsh, JR, de Boer, J, Lewis-Bevan, L, Rabinowitz, JR, Claxton, LD and Lewtas, J. Mutagenicity in lung of big blue mice and induction of tandem-base substitutions in salmonella by the air pollutant peroxyacetyl nitrate (PAN): predicted formation of intrastrand cross-links. **Mutation Research** 457:41-55, 2000.

DeMarini, DM, Brooks, LT., Warren, SH., Kobayashi, T., Gilmour, MI and Singh, P. Bioassay directed fractionation and salmonella mutagenicity of automobile and forklift diesel exhaust particles. Environmental Health Perspectives 112: 814-819, 2004.

Devlin, RB, Becker, SE, Madden, M. Horstman, D, Koren, H, Hatch, G and Biscardi, F. Imflammatory Response in Humans Exposed to 2.0 ppm Nitrogen Dioxide. **Inhalation Toxicology** 11:89-109, 1999.

Dey, A, Williams, RS, Pollock, DN, Stepp, DW, Newman, JW, Hammock, BD and Imig, JD. Decreased CYP2C and increased COX-2 are associated with obesity-related kidney damage. **Obesity Research** 12:1278-1289, 2004 (NCER). Diaz-Sanchez D, Proietti L and Polosa R. Diesel fumes and the rising prevalence of atopy: an urban legend? **Current Allergy and Asthma Reports** 3:146-52, 2003 (NCER).

Dick, CA, Singh, P, Daniels MJ, Evansky, PA, Becker,S and Gilmour MI. Murine pulmonary inflammatory responses following instillation of size fractionated ambient particulate matter. **Journal of Toxicology and Environmental Health** 66:2193-2208, 2003.

Dietrich, KN, Eskenazi, B, Schantz, S, Yolton, K, Rauh, VA, Johnson, CB, Alkon, A, Canfield, RL, Pessah, IN and Berman, RF. Principles and practices of neurodevelopmental assessment in children: Lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. **Environmental Health Perspectives** 113: 1437-1446, 2005 (NCER).

Diette GB, Markson L, Skinner EA, Nguyen TTH, Algatt-Bergstrom P, Clark R and Wu AW. Nocturnal asthma in children affects school attendance, school performance and parents' work attendance. Archives of Pediatrics and Adolescent Medicine 154: 923-928, 2000 (NCER).

Diette GB, Skinner EA, Nguyen TTH, Markson L, Clark BD and Wu AW. Comparison of quality of care of specialist and generalist physicians as usual source of asthma care for children. **Pediatrics** 108: 432-437, 2001 (NCER).

Diette GB, Skinner EA, Markson L, Algatt-Bergstrom P, Nguyen TTH, Clark RD and Wu AW. Consistency of care with national guidelines for children with asthma in managed care. **Journal of Pediatrics** 138:59-64, 2001 (NCER).

Diette GB, Krishnan J, Dominici F, Haponik E, Skinner EA, Steinwachs D and Wu AW. Asthma in the older patient: Factors associated with hospitalization. **Archives of Internal Medicine** 162: 1123-1132, 2002 (NCER).

Diette G, Krishnan JA, Wolfenden LL, Skinner EA, Steinwachs DM and Wu AW. Relationship of physician estimate of underlying asthma severity to asthma outcomes. **Annals of Allergy, Asthma and Immunology** 93:546-52, 2004 (NCER).

Dominici, F, McDermott, A, Daniels, M, Zeger, SL and Samet, JM. Revised analyses of the National Morbidity, Mortality and Air Pollution Study: mortality among residents of 90 cities. **Journal of Toxicology and Environmental Health A** 68: 1071-1092, 2005.

Dominici, F, Peng, RD, Bell, ML, Pham, L, McDermott, A, Zeger, SL and Samet, JM. Fine particulate matter air pollution and hospital adminssion for cardiovascular and respiratory diseases. **Journal of the American Medical Association** 295: 1127-1134, 2006.

Donaldson, K, Gilmour, MI and MacNee, W. Asthma and PM10. **Respiratory Research** 1:1-4, 2000.

Dong, W, Kari, FW, Selgrade, MJK and Gilmour, MI. Attenuated allergic responses to house dust mite antigen in feed restricted rats. **Environmental Health Perspectives**108: 1125-1131, 2000.

Dong, W, Selgrade. MJK and Gilmour, MI. Systemic administration of *B pertussis* enhances pulmonary sensitization to hour dust mite in juvenile rats. **Toxicological Sciences** 72: 113-121 2003.

Donohue, M, Chung, Y, Magnuson, ML, Ward, M, Selgrade, MJ and Vesper, S. Hemolysin chrysolysin from Penicillium chrysogenum promotes inflammatory response. **International Journal of Hygiene and Environmental Health** 208: 279-285, 2005.

Dorman, DC, Allen, SL, Bycskowski, JZ and Claudio, L. Methods to identify and characterize developmental neurotoxicity for human health risk assessment. III: pharmacokinetic and pharmacodynamic considerations. **Environmental Health Perspectives** 109(suppl):101-111, 2001 (NCER).

Echols, SL, MacIntosh, DL and Ryan, PB. Temporal patterns of activities potentially related to pesticide exposure. **Journal of Exposure and Analytical Environemtnal Epidemiology** 11: 389-0397, 2001.

Eggleston, PA. Methods and effectiveness of indoor environmental control. Annals of Allergy Asthma and Immunology 87: 44-47, 2001 (NCER).

Eggleston PA. Clinical trials of allergen avoidance in established asthma. **Journal of Allergy and Clinical Immunology** 108: 685-687, 2001.

Eggleston PA. Improving indoor environments: reducing allergen exposures. Journal of Allergy and Clinical Immunology 116: 122-126, 2005 (NCER).

Eggleston PA, Buckley TJ, Breysse PN, Wills-Karps M, Kleeberger SR and Jaakkola JJK. The environment and asthma in U.S. inner cities. **Environmental Health Perspectives** 107: 439-450, 1999 (NCER).

Eggleston PA, Wood RA, Rand C, Nixon WJ, Chen PH and Lukk P. Removal of cockroach allergen from inner -city homes. **Journal of Allergy and Clinical Immunology** 104: 842-846, 1999 (NCER).

Eggleston PA, Butz A, Rand C, Curtin-Brosnan J, Kanchanaraksa S, Swartz L, Breysse P, Buckley T, Diette G, Merriman B and Krishnan JA. A randomized controlled clinical trial home environmental intervention in inner city asthma. **Annals of Allergy Asthma and Immunology** 95: 518-524, 2005 (NCER).

Eggleston, PA, Diette, G, Lipsett, M, Lewis, T, Tager, I, McConnell, R, Chrischilles, E, Lanphear, B, Miller, R and Krishnan, J. Lessons learned for the study of childhood asthma from the Centers for Children's Environmental Health and Disease Prevention Research. **Environmental Health Perspectives** 113: 1430-1436, 2005 (NCER).

Eldridge, MW and Peden, DB. Allergen provocation augments endotoxin-induced nasal inflammation in atopic asthmatics. **Journal of Allergy and Clinical Immunology**105:475-481,

2000.

Elgethun, K, Fensk, e RA and Yost, MG. Time-location analysis for exposure assessment studies of children using a novel global positioning system instrument. **Environmental Health Perspectives** 111:115–122, 2003 (NCER).

Elliott, L, Heederik, D, Marshall, S, Peden, D and Loomis, D. Incidence of allergy and allergy symptoms among workers exposed to laboratory animals. **Occupational and Environmental Medicine** 62: 766-771, 2005.

Elliott, L, Heederik, D, Marshall, S, Peden, D and Loomis, D. Progression of self-reported symptoms in laboratory animal allergy. **Journal of Allergy and Clinical Immunology** 116: 127-132, 2005.

Eskenazi, B and Castorina, R. Association of prenatal maternal or postnatal child environmental tobacco smoke exposure and neurodevelopmental and behavioral problems in children. **Environmental Health Perspectives** 107:991-1000, 1999 (NCER).

Eskenazi, B and Bradman, A. A longitudinal investigation of pesticides and allergen exposures to children living in agricultural communities in California. **Urban Health and Development Bulletin** 4: 33 – 44, 2001 (NCER).

Eskenazi, B and Landrigan, PJ. Environmental Health Perspectives and children's environmental health. **Environmental Health Perspectives** 110: A559 - A560, 2002 (NCER).

Eskenazi, B, Mocarelli, P, Warner, M, Samuels, S, Vercellini, P, Olive, D, Needham, L, Patterson, D and Brambilla, P. Seveso Women's Health Study: a study of the effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on reproductive health. **Chemosphere** 40:1247-1253, 2000 (NCER).

Eskenazi, B, Mocarelli, P, Warner, M, Samuels, S, Needham, L, Patterson, D, Brambilla, P, Gerthoux, P, Turner, W, Casalini, S and Cazzaniga, M. Seveso women's health study: does zone of residence predict individual TCDD exposure? **Chemosphere** 43:937-942, 2001 (NCER).

Eskenazi, B, Bradman, A and Castorina, R. Exposures of children to organophosphate pesticides and their potential adverse health effects. **Environmental Health Perspectives** 107:409-419, 1999 (NCER).

Eskenazi, B, Bradman, A, Gladstone, E, Jaramillo, S, Birch, K and Holland, N. CHAMACOS, a longitudinal birth cohort study: Lessons from the fields. **Journal of Children's Health** 1: 3 – 28, 2003 (NCER).

Eskenazi, B, Harley, K, Bradman, A, Weltzien, E, Jewell, N, Barr, D, Furlong, C and Holland, N. Association of in utero organophosphate pesticide exposure and fetal growth and length of gestation in an agricultural population. **Environmental Health Perspectives** 112: 1116-1124, 2004 (NCER).

Ezkenazi, B, Warner, M, Marks, AR, Samuels, S, Gerthoux, PM, Vercellini, P, Olive, DL, Needham, L, Patterson, D and Moscarelli, P. Serum dioxin concentrations and age at menopause. **Environmental Health Perspectives** 113: 858-862, 2005 (NCER).

Eskenazi, B, Gladstone, EA, Berkowitz, GS, Drew, CH, Faustman, EM, Holland, NT, Lanphear, BP, Meisel, SJ, Perera, FP, Rauh, VA, Sweeney, A, Whyatt, RM and Yolton, K. Methodologic and logistic issues in conducting longitudinal birth cohort studies: Lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. Environmental Health Perspectives 113: 1419-1429, 2005 (NCER).

Etzel, RA, Crain, EF, Gitterman, BA, Oberg, C, Scheidt, P and Landrigan, P. Pediatric environmental health competencies for specialists. **Ambulatory Pediatrics** 3:60-63, 2003 (NCER).

Etzel, RA, Balk, SJ, Reigart, JR and Landrigan, PJ: Environmenta health for practicing pediatricians. **Indian Pediatrics** 853-860, 2003 (NCER).

Evans, GF, Highsmith, VR, Sheldon, LS, Suggs, JC., Williams, RW, Zweidinger, RB., Creason, J, Walsh, D., Rodes, CE and Lawless, PA. The 1999 Fresno particulate matter exposure studies: comparison of community, outdoor, and residential PM mass measurements. Journal of the Air and Waste Management Association 50:1887-1896, 2000.

Evans, D, Fullilove, MT, Green, L and Levison, M. Awareness of environmental risks and protective actions among minority women in Northern Manhattan. **Environmental Health Perspectives** 110: 271 – 275, 2002 (NCER).

Evans, MJ, Fanucchi, MV, Van, W, Baker, GL, Murphy, AE, Nishio, SJ, Sannes, PL and Plopper, CG. Fibroblast growth factor-2 during postnatal development of the tracheal basement membrane zone. **American Journal of Physiology-Lung Cellular and Molecular Physiology** 283:L1263-L1270, 2001 (NCER).

Evans, ME, Van, W, Fanucchi, MV and Plopper, CG. Cellular and molecular characteristics of basal cells in airway epithelium. **Experimental Lung Research** 27:401-415, 2001 (NCER).

Farhang, L, Weintraub, JM, Petreas, M, Eskenazi, B and Bhatia, R. Association of DDT and DDE with birth weight and length of gestation in the Child Health and Development Studies, 1959-1967. American Journal of Epidemiology 162:717-25, 2005 (NCER).

Farkas, T, Thornton, SA, Wilton, N, Zhong, W, Altaye, M and Jiang X. Homologous versus heterologous immune responses to Norwalklike viruses among crew members after acute gastroenteritis outbreaks on 2 US Navy vessels. **Journal of Infectious Diseases** 187:187-193, 2003 (NCER).

Farraj, AK, Haykal-Coates, N, Ledbetter, AD, Evansky, PA and Gavett, SH. Inhibition of pan neurotrophin receptor p75 attenuates diesel particulate-induced enhancement of allergic airway responses to C57/B16J mice. **Inhalation Toxicology** 18: 483-491, 2006.

Faustman, EM, Lewandowski, TA, Ponce, RA and Bartell, SM. Biologically based doseresponse models for developmental toxicants: lessons from methylmercury. **Inhalation Toxicology** 11:101-114, 1999 (NCER).

Faustman, EM, Silbernagel, SM and Fenske, RA. Mechanisms underlying children's susceptibility to environmental toxicants. **Environmental Health Perspectives** 108: 13 – 21, 2000 (NCER).

Faustman E, Gohlke J, Judd N, Lewandowski T, Bartell S and Griffith W. Modeling developmental processes in animals: Applications in neurodevelopmental toxicology. **Environmental Toxicology and Pharmacology** 19: 615-624, 2005

Fenske, R. Organophosphates and the risk cup. Agrichemical and Environmental News November, 1999 (NCER).

Fenske,RA, Lu, C, Simcox, NJ, Loewenherz, C, Touchstone, J, Moate, TF, Allen, EH and Kissel, JC. Strategies for assessing children's organophosphorus pesticide exposures in agricultural communities. Journal of Exposure Analysis and Environmental Epidemiology 10: 662 – 671, 2000 (NCER).

Fenske, RA, Kissel, JC and Lu, C. Biologically based pesticide dose estimates for children in an agricultural community. **Environmental Health Perspectives** 108: 515 – 520, 2000 (NCER).

Fenske, RA, Lu, C and Simcox, NJ. Strategies for assessing children's organophosphorus pesticide exposures in agricultural communities. **Journal of Exposure Analysis and Environmental Epidemiology** 10: 662 – 671, 2000 (NCER).

Fenske, RA, Kedan, G and Lu, C. Assessment of organophosphorous pesticide exposures in the diets of preschool children in Washington state. **Journal of Exposure Analysis and Environmental Epidemiology** 12: 21 – 28, 2002 (NCER).

Fenske, R, Lu, C and Barr, D. Children's exposure to chlorpyrifos and parathion in an agricultural community in central Washington state. **Environmental Health Perspectives** 110: 549 – 553, 2002 (NCER).

Fenske ,RA, Kedan, G, Lu, C, Fisker-Andersen, JA and Curl, CL. Assessment of organophosphorus pesticide exposures in the diets of preschool children in Washington State. **Journal of Exposure Analysis and Environmental Epidemiology** 12: 21 – 28, 2003 (NCER).

Fenske, RA, Bradman, A, Whyatt, RM, Wolff, MS and Barr, DB. Lessons learned for the assessment of children's pesticide exposure: Critical sampling and analytical issues for future studies. **Environmental Health Perspectives** 113: 1455-1462, 2005 (NCER).

Fenster, L, Eskenazi, B, Anderson, M, Bradman, A, Harley, K, Hernandez, H, Hubbard, A and Barr, DB. Association of in utero organochlorine pesticide exposure and fetal growth and length

of gestation in an agricultural population. **Environmental Health Perspectives** 114:597-602, 2006 (NCER).

Fenton, SE, Condon, M, Ettinger, AS, LaKind, JS, Mason, A, McDiarmid, M, Qian, Z and Selevan, SG. Collection and use of exposure data from human milk biomonitoring in the United States. **Journal of Toxicology and Environmental Health A 68**: 1691-1712, 2005.

Ferrari E, Eggleston P, Spisni A and Chapman MD. Environment detection of mouse allergen by immunoassay for recombinant Mus m 1. **Journal of Allergy and Clinical Immunology** 114-341-346, 2004 (NCER).

Fewtrell, LJ, Prüss, A, Landrigan, P and Ayuso-Mateos, JL. Estimating the global burden of disease from environmental lead exposure. **Environmental Research** 94:120-133, 2004 (NCER).

Flores, G, Fuentes-Afflick, E, Barbot, O, Carter-Pokras, O and Claudio L. The health of Latino children: Urgent priorities, unanswered questions, and a research agenda. **Journal of the American Medical Association** 288: 82-90, 2002 (NCER).

Forman, J, Moline, J, Cernichiari, E, Sayegh, S, Torres, J, Landrigan, M, Hudson, J Adel, H and Landrigan, P. A cluster of pediatric metallic mercury cases tracked with meso-2,3-Dimercaptosuccinic acid (DMSA). Environmental Health Perspectives 108: 575-577, 2000 (NCER).

Freeman, NC, Lioy, PJ, Pellizzari, E, Zelon, H, Thomas, K, Clayton and Quackenboss, JJ. Responses to the region 5 NHEXAS time/activity diary. NHEXAS. Journal of Exposure Analysis and Environmental Epidemiology 9:414-426, 1999.

Freeman, NC, Sheldon, LS, Jimenez, M, Melnyk, LJ, Pellizzari, ED and Berry, MR. Contribution of children's activities to lead contamination of food. Journal of Exposure Analysis and Environmental Epidemiology 11: 407-413, 2001.

Freeman, NC, Hore, P, Black, K, Jimenez, M, Sheldon, L, Tulve, N and Lioy, PJ. Contributions of children's activities to pesticide hand loadings following residential pesticide application. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 81-88, 2005.

Freeman, NC, Jimenez, M, Reed, KJ, Gurunathan, S, Edwards, RD, Roy, A, Adgate ,JL, Pellizzari, ED, Quackenboss, J, Sexton, K and Lioy PJ. Quantitative analysis of children's microactivity patterns The Minnesota Children's Pesticide Exposure Study. Journal of Exposure Analysis and Environmental Epidemiology 11: 501 – 509, 2001 (NCER).

Forman J, Moline J, Cernichiari E, Sayegh S, Torres J, Landrigan M, Hudson J, Adel H and Landrigan P. A cluster of pediatric metallic mercury cases tracked with meso-2,3-

Dimercaptosuccinic acid (DMSA). Environmental Health Perspectives 108: 575-577, 2000 (NCER).

Fortmann, RC, Sheldon, LS, Cohen Hubal, EA, Morgan, MK, Stout, DM, Thomas, KW, Tulve, NS and Whitaker, D.A. The EPA National Exposure Research Laboratory Children's Pesticide Exposure Measurement Program. **Indoor Air** 4:888-893, 2002.

Fullilove, M. Links between the social and physical environments. **Pediatric Clinics of North America, Review** 48: 1253 – 1266, 2001 (NCER).

Furlong, CE. PON1 status and neurologic symptom complexes in Gulf War veterans. **Genome Research** 10: 153 – 155, 2000 (NCER).

Furlong, CE, Li, WF and Richter, RJ Genetic and temporal determinants of pesticide sensitivity: role of paraoxonase (PON1). **NeuroToxicology** 21: 91 – 100, 2000 (NCER).

Furlong, CE, Li ,WF and Brophy,VH. The PON1 gene and detoxication. **NeuroToxicology** 21: 581 – 587, 2000 (NCER).

Furlong, C, Cole, T and Jarvik, G. Pharmacogenomic considerations of the paraoxonase polymorphisms. **Pharmacogenomics** 3: 341 – 348, 2002 (NCER).

Furlong ,C, Li ,W and Shih, A. Genetic factors in susceptibility: Serum PON1 variation between individuals and species. **Human and Ecological Risk Assessment** 8: 1 – 6, 2002 (NCER).

Furlong, CE, Cole, TB, Jarvik, GP, Pettan-Brewer, C, Geiss, GK, Richter, RJ, Shir, DM, Tward, AD, Lusis, AJ and Costa, LG. Role of paraoxonase (PON1) status in pesticide sensitivity. Gentic and temporal determinants. **NeuroToxicology** 26: 651-659, 2005 (NCER).

Furlong, CE, Cole, TB, Walter, BJ, Shih, DM, Tward, A, Lusis, AJ, Timchalk, C, Richter, RJ and Costa, L. Paraoxonase 1 (PON1) status and risk of insecticide exposure. **Journal of Biochemistry and Molecular Toxicology** 19:182-183, 2005 (NCER).

Furlong, CE, Holland, N, Richter, RJ, Bradman, A, Ho, A and Eskenazi, B. PON1 status of farmworker mothers and children as a predictor of organophosphate sensitivity. **Pharmacogenetics and Genomics** 16: 183-190, 2006 (NCER).

Gallagher, CJ, Gordon, CJ, Langefield, CD, Mychaleckyj, JC, Freedman, BI, Rich, SS, Bowden, DW and Sale, MM. Association of the mu-opiod receptor gene with type 2 diabetes mellitus in an African American population. **Molecular Genetics and Metabolism**. 87: 54-60, 2006.

Galvez, M, Vanable, L, Forman, JA, Landrigan, PJ, Akeredolu, E, Leighton, J and Nagin, D: Childhood lead poisoning from commercially manufactured European ceramic dinnerware - New York City, 2003. Morbidity and Mortality Weekly Report 53:585-586, 2004 (NCER).

Garg, A and Landrigan, PJ: Children's environmental health: New gains in science and policy. **Annals of the American Academy of Political and Social Science** 584:135-144, 2002 (NCER).

Gardner, JL, Doi, AM, Pham, RT, Huisden, CM and Gallagher, EP. Ontogenic differences in human liver 4-hydroxynonenal detoxification are associated with in vitro injury to fetal hematopoietic stem cells. **Toxicology and Applied Pharmacology** 191:95-106, 2003 (NCER).

Garlock,TJ, Shirai, JH and Kissel, JC. Adult responses to a survey of soil contact-related behaviors. Journal of Exposure Analysis and Environmental Epidemiology 9: 134 – 142, 1999 (NCER).

Garman RH, Fix AS, Jortner BS, Jensen KF, Hardisty JF, Claudio L and Ferenc S. Methods to identify and characterize developmental neurotoxicity for human health risk assessment. II: neuropathology. **Environmental Health Perspectives** 109:93-100, 2001 (NCER).

Gauderman, WJ, McConnell, R, Gilliland, F, London, S, Thomas, D, Avol, E, Vora, H, Berhane, K, Rappoport, EB, Lurmann, F, Margolis, H and Peters J. Association between air pollution and lung function growth in southern California children. **American Journal of Respiratory and Critical Care Medicine** 162:1383-1390, 2000.

Gauderman, WJ, Gilliland, GF, Vora, H, Avol, E, Stram, D, McConnell, R, Thomas, D, Lurmann, F, Margolis, HG, Rappaport, EB, Berhane, K and Peters, JM. Association between air pollution and lung function growth in southern California children: results from a second cohort. **American Journal of Respiratory and Critical Care Medicine** 166:76-84, 2002.

Gauderman, WJ, Avol, E, Gilliland, F, Vora, H, Thomas, D, Berhane, K, McConnell, R, Kunzli, N, Lurmann, F, Rappaport, E, Margolis, H and Bates, D. The effect of air pollution on lung function development in children aged 10 to 18 years. **New England Journal of Medicine** 351: 1057-1067, 2004 (NCER).

Gauderman, WJ, Avol, E, Lurmann, F, Kuenzli, N, Gilliland, F, Peters, J and McConnell, R. Childhood asthma and exposure to traffic and nitrogen dioxide **Epidemiology** 16: 737-743, 2005.

Gavett, SH. Physical characteristics and health effects of aerosols from collapsed buildings. **Journal of Aerosol Medicine**, in press, 2006.

Gavett, SH and Koren, H. The role of particulate matter in exacerbation of atopic asthma. **International Archives of Allergy and Immunology** 124: 109-112, 2001.

Gavett, SH, Haykal-Coates, N, Copeland, LB, Heinrich, J and Gilmour, MI. Metal-Rich Ambient PM<sub>2.5</sub> Exacerbates Allergic Airways Disease in Mice. **Environmental Health Perspectives** 111: 1471-1477, 2003.

Geller, AM. A table of color distance scores for quantitative scoring of the Lanthony desaturate color vision test. **Neurotoxicology and Teratology** 23: 265-267, 2001.

Geller, AM. Homology of assessment of visual function in human and animal models. **Environmental Toxicology and Pharmacology,** in press, 2006.

Geller, AM and Zenick, H. Aging and the environment: A research framework. Environmental Health Perspectives 113: 1257-1262, 2005.

George, CLS, Jin, H, Wohlford-Lenane, CL, O'Neill, ME, Phipps, JC, O'Shaughnessy, P, Kline, JN, Thorne, PS and Schwartz, DA. Endotoxin responsiveness and subchronic grain dust-induced airway disease. **American Journal of Physiology** 280:L203-L213, 2001 (NCER).

Geyh, A, Xue, J, Özkaynak H and Spengler, JD. The Harvard southern California chronic Ozone exposure study: assessing exposure to ozone of grade school age children in two southern California communities. **Environmental Health Perspectives** 108:265-270, 2000.

Geys, H, Molenberghs, G and Ryan, LM. Pseudolikelihood modeling of multivariate outcomes in developmental toxicology. **Journal of the American Statistical Association** 94:734-745, 1999 (NCER).

Ghio, AJ and Alexis, N. Siderophages in sputum. Acta Cytologica 47: 695-696, 2003.

Gilbert, ME, Kelly, M, Samsam, T and Goodman, J. Chronic developmental lead exposure reduces neurogenesis in adult rat hippocampus but does not impair spatial learning. . **Toxicological Sciences** 862 :365-374, 2005.

Gilboa, SM, Mendola, P, Olshan, AF, Langlois, PH, Savitz, DA, Loomis, D, Herring, AH and Fixler, DE. Relation between ambient air quality and selected birth defects, seven county study, Texas, 1997-2000. American Journal of Epidemiology 162: 238-252, 2005.

Gilboa, SM, Mendolat, P, Olshan, AF, Savitz, DA, Herring, AH, Loomis, D, Langlois, PH and Keating, K. Characteristics that predict locating and interviewing mothers identified by a state birth defects registry and vital records. **Birth Defects Research A Clinical and Molecular Teratology** 76: 60-65, 2006.

Gilboa, SM, Mendola, P, Olshan, AF, Harness, C, Loomis, D, Langlois, PH, Savitz, DA and Herring, AH. Comparison of residential geocoding methods in population-based study of air quality and birth defects. **Environmental Research**, in press, 2006.

Gilliland, FD, McConnell, R, Peters, J and Gong, H. A theoretical basis for investigating ambient air pollution and children's respiratory health. **Environmental Health Perspectives** 107:403-407, 1999 (NCER).

Gilliland, FD, Berhane, K, Li, YF, Rappaport, EB and Peters, JM. Effects of early onset asthma and in utero exposure to maternal smling on childhood lung function. **American Journal of Respiratory and Critical Care Medicine** 167: 917-22, 2002.

Gilliland, F, Berhane, K, McConnell, R, Gauderman, WJ, Vora, H, Rappaport, EB, Avol, E and Peters, JM. Maternal smoking during pregnancy, environmental tobacco smoke exposure and

childhood lung function. Thorax 55:271-6, 2000 (NCER).

Gilliland, FD, Berhane, K, Rappaport, EB, Thomas, DC, Avol, E, Gauderman, WJ, London, SJ, Margolis, HG, McConnell, R, Islam, T and Peters, JM. The effects of ambient air pollution on school absenteeism due to respiratory illnesses. **Epidemiology** 12:43-54, 2001 (NCER).

Gilliland, FD, Li, YF, Dubeau, L, Berhane, K, Avol, E, McConnell, R, Gauderman, WF and Peters, JM. Effects of glutathione S-transferase M1, maternal smoking during pregnancy, and environmental tobacco smoke on asthma and wheezing in children. **American Journal of Respiratory and Critical Care Medicine** 166: 457-463, 2002 (NCER).

Gilliland, FD, Rappaport, EB, Berhane, K, Islam, T, Dubeau, L, Gauderman, WJ and McConnell, R. Effects of glutathione S-transferase P1, M1, and T1 on acute respiratory illness in school children. **American Journal of Respiratory and Critical Care Medicine** 166:346-51, 2002 (NCER).

Gilliland, F, Berhane, K, Islam, T, Wenten, M, Rappaport, E, Avol, E, Gauderman, W, McConnell, R and Peters, JM. Environmental tobacco smoke and respiratory illness-related school absenteeism in school children. **American Journal of Epidemiology** 157:861-869, 2003.

Gilliland FD, Berhane K, Islam T, Wenten M, Rappaport E, Avol E, Gauderman WJ, McConnell R and Peters J. Obesity and the risk of newly diagnosed asthma in school-aged children. **American Journal of Epidemiology** 158:406-415, 2003 (NCER).

Gilliland FD, Berhane K, Li Y, Gauderman WJ, McConnell R and Peters J. Children's lung function and antioxidant vitamin, fruit, juice, and vegetable intake. **American Journal of Epidemiology** 158:576-84, 2003 (NCER).

Gilliland FD, Li Y-F, Saxon A and Diaz-Sanchez D. Glutathione-S-Transferase M1 and P1 genotypes protect against xenobiotic enhancement of allergic responses. Lancet 363:119-25, 2004 (NCER).

Gilliland, F, Avol, E, Kinney, P, Jerrett, M, Dvonch, T, Lurmann, F, Buckley, T, Breysse, P, Keeler, J, de Villiers, T and McConnell, R. Air pollution exposure assessment for epidemiologic studies of pregnant women and children: Lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. Environmental Health Perspectives 110: 1447-1454, 2005 (NCER).

Gilmour, MI, Selgrade, MJ and Winsett, D. Residual oil fly ask exposure enhances allergic sensitization to house dust mite. **Toxicology and Applied Pharmacology** 158:269-277, 1999.

Gilmour, MI, Selgrade, MJ and Lambert, AL. Enhanced allergic sensitization in animals exposed to particulate air pollutants. **Inhalation Toxicology** 12 (S3):373-380, 2000.

Gilmour, MI, Daniels, M, McCrillis, RC, Winsett, DW and Selgrade, MJ. Air pollutant-enhanced respiratory disease in experimental animals. **Environmental Health Perspectives** 109(S4): 619-622, 2003.

Gilmour, MI, O'Connor, S, Dick, CA, Miller, CA and Linak, WP. Differential pulmonary

inflammation and in vitro cytotoxicity by size fractionated particles collected from combusted coal emissions. Journal of the Air Waste Management Association 54:286-295. 2003.

Ginsberg, G, Hattis, D, Sonawane, B, Russ, A, Banati, P, Kozlak, M, Smolenski, S and Goble, R. Evaluation of child/adult pharmacokinetic differences from a database derived from the therapeutic drug literature. **Toxicological Sciences** 66:185-200, 2002.

Ginsberg, G, Hattis, D, Russ, A and Sonawane, B. Physiologically based pharmacokinetic (PBPK) modeling of caffeine and theophylline in neonates and adults: implications for assessing children's risks from environmental agents. **Journal of Toxicology and Environmental Health** A 67: 297-329, 2004.

Ginsberg, G, Hattis, D, Miller, R and Sonawane, B. Pediatric pharmacokinetic data: implications for environmental risk assessment for children. **Pediatrics** 113: 973-983, 2004.

Ginsberg, G, Hattis and Sonawane, B. Incorporating pharmacokinetic differences between children and adults in assessing children's risks to environmental toxicants. **Toxicology and Applied Pharmacology** 198:164-183, 2004

Ginsberg, G, Slikker, W, Jr., Bruckner, J and Sonawane, B. Incorporating children's toxicokinetics into a risk framework. **Environmental Health Perspectives** 112: 272-283, 2004.

Glenn BS, Stewart, WF, Schwartz, BS and Bressler, J. Relation of alleles of the sodiumpotassium adenosine triphosphatase C2 gene with blood pressure and lead exposure. **American Journal of Epidemiology** 153:537-545, 2001.

Glenn, BS, Stewart, WF, Schwartz, BS, Kelsey, KT, Links, JM and Todd, AC. The longitudinal association of lead with blood pressure. **Epidemiology** 14: 30-36, 2003.

Gobeille, AK, Morland, KB, Bopp, RF, Godbold, JH and Landrigan, PJ. Body burdens of mercury in lower Hudson River area anglers. **Environmental Research**, in press, 2005 (NCER).

Gohlke, JM, Griffith, WC and Bartell, SM. A computational model for neocortical neuronogenesis predicts ethanol-induced neocortical neuron number deficits. **Developmental Neuroscience** 24: 467 – 477, 2002 (NCER).

Gohlke J, Griffith W and Faustman E. The role of cell death during neocortical neurogenesis and synaptogenesis: Implications from a computational model for the rat and mouse. **Developmental Brain Research** 151: 43-54, 2004 (NCER).

Gohlke J, Griffith W and Faustman E. A systems-based computational model for dose-response comparisons of two mode of action hypotheses for ethanol-induced neurodevelopmental toxicity. **Toxicological Sciences** 86: 470-484, 2005 (NCER).

Goldman, L, Eskenazi, B, Bradman, A and Jewell, NP. Risk behaviors for pesticide exposure among pregnant women living in farmworker households in Salinas, California. **American Journal of Industrial Medicine** 45: 491 – 499, 2004 (NCER).

Goldman, L, Falk, H, Landrigan, PJ, Balk, SJ, Reigart, JR and Etzel RA. Environmental pediatrics and its impact on government health policy. **Pediatrics** 113:1146-1157, 2004 (NCER).

Goldstein IF, Perzanowski MS, Lendor C, Garfinkel RS, Hoepner LA, Chew GL, Perera FP and Miller RL. Prevalence of allergy symptoms and total IgE in a New York City cohort and their association with birth order. **International Archives of Allergy and Immunology** 137:249-257 2005 (NCER).

Golub, MS, Costa, L, Crofton, K, Frank, D, Fried, P, Gladen, B, Henderson, R, Liebelt, E, Lusskin, S, Marty, S, Rowland, A, Scialli, J and Vore, M. NTP-CERHR expert panel report on the reproductive and developmental toxicity of amphetamine and methamphetamine. **Birth Defects Research, Part B, Developmental and Reproductive Toxicology** 74: 300-381, 2005.

Gong, H, Linn, WS, Terrell, SL, Anderson, KR, Clark, KW, Sioutas, C, Cascio, WE, Alexis, N and Devlin, RB. Exposures of elderly volunteers with and without chronic obstructive pulmonary disease (COPD) to concentrated ambient fine particulate pollution. **Inhalation Toxicology** 16: 731-744, 2004.

Gordon, CJ. Comment on "Scaling the thermophysiological effects of radiofrequency radiation-revisted". **Bioelectromagnetics** 27:82-83, 2006.

Gordon, CJ and Leon, LR. Thermal stress and the physiological response to environmental toxicants. **Reviews in Environmental Health** 20: 235-263, 2005.

Grasty, RC, Bjork, JA, Wallace, KB, Lau, CS and Rogers, JM. Effects of prenatal perfluorooctane sulfonate (PFOS) exposure on lung maturation in the perinatal rat. **Birth Defects Research B Developmental and Reproductive Toxicology** 74: 405-416, 2005.

Gray, LE, Wilson, VS, Stoker, T, Lambright, C, Furr, J, Noriega, N, Howdeshell, K, Ankley, GT and Guillette, L. Adverse effects of environmental antiandrogens and androgens on reproductive development in mammals. **International Journal of Andrology** 29: 96-104, 2006.

Greco, CM, Berman, RF, Martin, RM, Tassone, F, Schwartz, PH, Grigsby, J, Kessl, D, Becker, E J, Papazian, J, Bacalman, S, Leehey, MA, Hagerman, RJ and Hagerman, PJ. Neuropathology of fragile X-associated tremor/ataxia syndrome (FXTAS). **Brain** 129: 243-255, 2006 (NCER).

Green ,L, Fullilove, M, Evans, D and Shepard, P. Use of focus groups in the development of place-specific materials for a community environmental action campaign. **Environmental Health Perspectives** 10: 265 – 269, 2002 (NCER).

Gregory, L, Rand, TG, Dearborn, DG, Yike, I and Vesper, SJ. Immunocytochemical localization of stachylysin in Stachybotrys chartarum spores and spore-impacted mouse and rat lung tissues. **Mycopathologia** 156:76-85, 2003.

Gribble EJ, Hong SW and Faustman EM. The magnitude of methylmercury-induced cytotoxicity and cell cycle arrest is p53-dependent. **Birth Defects Research Part A Clinical and Molecular Teratology** 73: 29-38, 2005 (NCER).

Griffith W and Faustman E. Estimating between and within person variability of organophosphate pesticide urinary biomarkers when a large fraction of the data is below limits of detection. **Toxicology and Applied Pharmacology** 197: 357-357, 2004 (NCER).

Griffith ,W, Curl, CL, Fenske, RA, Koch, D and Lu, CA. Organophosphorus pesticide metabolite levels in pre-school children in an agricultural community: Within- and between-child variability in a longitudinal study. **Environmental Health Perspectives**, in press, 2006 (NCER).

Guillette Jr, LJ, Brock, JW, Rooney, AA and Woodward, AR. Serum concentrations of various environmental contaminants and their relationship to sex steroid concentrations and phallus size in juvenile American alligator. Archives of Environmental Contamination and Toxicology 36:447-455, 1999 (NCER).

Guillette Jr, LJ, Woodward, AR, Crain, DA, Pickford, DB, Rooney, AA and Percival, HF. Plasma steroid concentrations and male phallus size in juvenile alligators from seven Florida lakes. **General and Comparative Endocrinology** 116:356-372, 1999 (NCER).

Hall JV, Brajer V and Lurmann FW. Economic valuation of ozone-related school absences in the South Coast Air Basin of California. **Contemporary Economic Policy** 21:407-11, 2003 (NCER).

Hansel NN, Hilmer SC, Georas SN, Cope LM, Guo J, Irizarry RA and Diette GB. Oligonucleeotide Microarry analysis of peripheral blood lymphocytes in severe asthma. **Journal of Clinical and Laboratory Medicine** 145: 263-274, 2005 (NCER).

Hao, M, Comier, S, Wang, M, Lee, JJ and Nel, A. Diesel exhaust particles exert acute effects on airway inflammation and function in murine allergen provocation models. **Journal of Allergy and Clinical Immunology** 112: 905-914, 2003.

Harder, V., Gilmour, P.S., Lentner, B., Karg, E., Takanaka, S., Ziesenis, A., Stampfl, A., <u>Kodavanti, U.P.</u>, Heyder, J., and Schulz, H. Cardiovascular responses in unrestrainedWKY-rats to inhaled ultrafine carbon particles. **Inhalation Toxicology** 17: 29-42, 2005.

Harley, K and Exkenazi, B. Time in the United States, social support and health behaviors during pregnancy among women of Mexican descent. **Social Sciences and Medicine**, in press, 2006 (NCER).

Harley, K, Eskenazi, B and Block, G. The effect of time in the United States on diet during pregnancy in women of Mexican descent. **Paediatric and Perinatal Epidemiology** 19: 125-134, 2005 (NCER).

Harnly, M, McLaughlin, R, Bradman, A, Anderson, M and Gunier, R. Correlating agriculture use of organophosphates with outdoor air concentrations: a particular concer for children. **Environmental Heatlh Perspectives** 113: 1184-1189, 2005.

Hattis, D and Anderson, E. What should be the implications of uncertainty, variability, and inherent biases/conservatism for risk management decision-making? **Risk Analysis** 19:95-107, 1999 (NCER).

Hattis, D, Banati, P and Goble, R. Distributions of individual susceptibility among humans for toxic effects--for what fraction of which kinds of chemicals and effects does the traditional 10-fold factor provide how much protection? **Annals of The New York Academy of Sciences** 895:286-316, 1999 (NCER).

Hattis, D, Banati, P, Goble, R and Burmaster, D. Human interindividual variability in parameters related to health risks. **Risk Analysis** 19:705-720, 1999 (NCER).

Hattis, D and Swedis, S. Uses of biomarkers for genetic susceptibility and exposure in the regulatory context. **Jurimetrics** 41:177-194, 2001 (NCER).

Hattis, D, Ginsberg, G, Sonawane, B, Smolenski, S, Russ, A, Kozlak, M and Goble, R. Differences in pharmacokinetics between children and adults-II. Children's variability in drug elimination half-lives and in some parameters needed for physiologically-based pharmacokinetic modeling. **Risk Analysis** 23, 117-142, 2003.

Haugland, RA Vesper, SJ and Wymer, LJ. Quantitative measurement of *Stachybotrys chartarum conidia* using real time detection of PCR products with the TaqMan<sup>™</sup> Fluorogenic Probe System. **Molecular and Cellular Probes** 13:329-340, 1999.

Haugland, RA, Vesper, SJ and Harmon, SM. Phylogenetic relationships of *Memnoniella* and *Stachybotrys* species inferred from ribosomal DNA sequences and evaluation of morphological features for *Memnoniella* species identification. **Mycologia** 93:54-65, 2001.

Haugland, RA, Brinkman, N and Vesper, SJ. Evaluation of rapid DNA extraction methods for the quantitative detection of fungal cells using real time PCR analysis. **Journal of Microbiological Methods** 50:319-323, 2002.

Haugland, RA, Varma, M, Wymer, LJ and Vesper, SJ. Quantitative PCR of selected *Aspergillus, Penicillium and Paecilomyces* species. **Systematic and Applied Microbiology**. 27:198-210, 2004.

Haynes, E, Lanphear, BP, Tohn, E, Farr, N and Rhoads, G. The effects of interior lead hazard controls on children's blood lead concentrations: a systematic evaluation. **Environmental Health Perspectives** 110: 103 – 107, 2002 (NCER).

Haynes, EN, Kalkwarf, HJ, Hornung, R, Wenstrup, R, Dietrich, K and Lanphear, BP. Vitamin D receptor Fok1 polymorphism and blood lead concentration in children. **Environmental Health Perspectives** 111: 1665 – 1669, 2003 (NCER).

Hecht, SS, Ye, M, Carmella, SG, Fredrickson, A, Adgate, JL, Greaves, IA, Church, TR, Ryan, AD, Mongin, SJ and Sexton, K. Metabolites of a tobacco-specific lung carcinogen in the urine of

elementary school-aged children. **Cancer Epidemioloy, Biomarkers and Prevention** 10: 1109 – 1116, 2001 (NCER).

Heinrich, J, Hoelscher, B, Frye, C, Meyer I, Pitz, M, Cyrys, J, Wjst, M, Neas, L and Wichmann, HE. Improved air quality in reunified Germany and decreases in respiratory symptoms. **Epidemiology** 13:394-401, 2002.

Henschel, DB, Fortmann, RC, Roache, NF and Liu, X. Potential for reducing indoor styrene exposure from copied paper through use of slow-emitting toners. Journal of the Air and Waste Management Association 53:1347-1354, 2003

Herbstman, JF, Frank, R, Schwab, M, Williams, DL, Samet, JM, Breysse, PN and Geyh, AS. Respiratory effects of inhalation exposure among workers during the clean-up effort at the World Trade Center disaster site. **Environmental Research** 99:85-92, 2005.

Herr, DW, Chanda, SM, Graff, JE, Barone, S.Jr., Beliles, RP and Morgan, DL. Evaluation of sensory evoked potentials in Long-Evans rats gestationally exposed to mercury (Hg) vapor. **Toxicological Sciences** 82: 93-206, 2004.

Hertz-Picciotto, I, Dostal, M, Dejmek, J, Selevan, SG, Wegienka, G, Gomez-Caminero, A and Sram, RJ. Air pollution and distributions of lymphocyte immunophenotypes in cord and maternal blood at delivery. **Epidemiology** 13:172-183, 2002.

Hertz-Picciotto, I, Croen, L, Hansen, RL, Jones, CR and Pessah, IN. The CHARGE study: An epidemiological investigation of genetic and environmental factors contributing to autism and mental retardation/developmental delay. **Environmental Health Perspectives**, in press, 2005 (NCER).

Higuchi, TT, Palmer, JS, Gray, LE, Jr. and Veeramachaneni, DNR. Effects of dibutyl phthalate in male rabbits following in utero, adolescent, or post-pubertal exposure. **Toxicological Sciences** 72:301-313, 2003 (NCER).

Hilborn, E, Walsh, D, Mendola, P and Royster, M. A primer on the field study of young children. **Journal of Children's Health** 1:499-511, 2003.

Holland, N, Smith, MT, Eskenazi, B and Bastaki, M. Biological sample collection and processing for molecular epidemiological studies. **Reviews In Mutation Research** 543:217-234, 2003 (NCER).

Holsapple, MP, Jones, D, Kawabata, TT, Kimber, I, Sarlo, K, Selgrade, MK, Shah, J and Woolhiser, MR. Assessing the potential to induced respiratory hypersensitivity. **Toxicological Sciences**, in press, 2005.

Hopke PK, Ito K, Mar T, Christensen WF, Eatough DJ, Henry RC, Kim E, Laden F, Lall R, Larson TV, Liu H, Neas L, Pinto J, Stolzel M, Suh H, Paatero P and Thurston GD. PM source apportionment and

health effects: 1. Intercomparison of source apportionment results. Journal of Exposure Analysis and Environmental Epidemiology, in press, 2005.

Hore, P, Robson, M, Freeman, N, Ahang, J, Wartenberg, D, Ozkaynak, H, Tulve, N, Sheldon, L, Needham, L, Barr, D and Lioy, PJ. Chlorpyrifos accumulation patterns for child-acessible surfaces and objects and urinary metabolite excretion by children for 2 weeks after crack and crevice application. **Environmental Health Perspectives** 113: 211-219, 2005.

Hore, P, Zartarian, V, Xue, J, Ozkaynak, H, Wang, SW, Yang, YC, Chu, PI, Sheldon, L, Robson, M, Needham, L, Barr, D, Freeman, N, Georgropoulos, P and Lioy, PJ. Children's residential exposure to chlorpyrifos: Application of CPPAES field measurements of chlorpyrifos and TCPy within MENTO/SHEDS pesticides model. Science of the Total Environment, in press, 2005.

Hruba, F, Fabianova, E, Koppova, K and Vandenberg, J. Childhood respiratory symptoms, hospital admissions and long-term exposure to airborne particulate matter. **Journal of Exposure Analysis and Environmental Epidemiology** 11: 33-40, 2001.

Hu, Y, Beach, J, Raymer, J and Gardner, M. Disposable diaper to collect urine samples from young children for pyrethroid pesticide studies. **Journal of Exposure Analysis and Environmental Epidemiology** 14:378-384, 2004 (NCER).

Hu ,YA, Barr, DB, Akland, G, Melnyk, L, Needham, L, Pellizzari, ED, Raymer, JH and Roberds JM. Collecting urine samples from young children using cotton gauze for pesticide studies. **Journal of Exposure Analysis and Environmental Epidemiology** 10: 703 – 709, 2000 (NCER).

Hu, Y, Akland, G, Pellizzari, ED, Berry, MR and Melnyk, LJ. Use of pharmacokinetic modeling to design studies for pathway-specific exposure model evaluation. **Environmental Health Perspectives** 112: 1697-1703, 2004.

Huang, H, Stok, JE, Stoutamire, DW, Gee, SJ and Hammock, BD. Development of optically pure pyrethroid-like fluorescent substrates for carboxylesterases. **Chemical Research in Toxicology** 18:516-527, 2005 (NCER).

Huang I, Diette GB, Dominici F, Frangakis C and Wu AW. Variations of physicians group profiling indicators for asthma care. **The American Medical Journal of Managed Care** 10:38-44, 2004 (NCER).

Huang I, Dominici F, Frangakis C, Diette GB, Damberg CL and Wu AW. Is risk-adjuster selection more important that statistical approach for provider profiling? Asthma as an example. **Medical Decision Making** 39:24-32, 2005 (NCER).

Huang I, Frangakis C, Dominici F, Diette GB and Wu AW. Applications of a propensity score approach for risk adjustment in profiling multiple physicians groups on asthma care. **Health Services Research** 40:253-278, 2005 (NCER).

Huang, P, Farkas, T, Marionneau, S, Zhong, W, Ruvoen Clouet, N, Morrow, AL, Altaye, M, Pickering, LK, Newburg, DS, LePendu, J and Jiang, X. Noroviruses bind to human ABO, Lewis, and secretor histological blood group antigens identification of 4 distinct strain specific patterns. **Journal of Infectious Diseases** 188:19-31, 2003 (NCER).

Hunter, DL, Lassiter, TL and Padilla, S. Gestational exposure to chlorpyrifos: Comparative distribution of trichloropyridinol in the fetus and dam. **Toxicology and Applied Pharmacology** 158: 16-23, 1999.

Huss K, Adkinson NF, Eggleston PA, Dawson C, Van-Natta ML and Hamilton RG. House dust mite and cockroach exposure are strong risk factors for positive allergy skin test responses in the childhood asthma management program. **Journal of Allergy and Clinical Immunology** 107:48-54, 2001 (NCER).

Hysong, TA, Burgess, JL, Cebrian Garcia, ME and O'Rourke, MK. House dust and inorganic urinary arsenic in two Arizona mining towns. **Journal of Exposure Analysis and Environmental Epidemiology** 13:211-218, 2003 (NCER).

Ibrahim, JG and Chen, MH. Power prior distributions for regression models. **Statistical Science** 15: 46-60, 2000.

Israel, BA, Parker, EA, Rowe, Z, Salvatore, A, Minkler, M, Lòpez, J, Butz, A, Mosley, A, Coates, L, Lambert, G, Potito, PA, Brenner, B, Rivera, M, Romero, H, Thompson, B, Coronado, G and Halstead, S. Community-based participatory research: Lessons learned from the Centers for Children's Environmental Health and Disease Prevention Research. Environmental Health Perspectives 113: 1463-1471, 2005 (NCER).

Iovannisci, DM, Kupperman, SO, Lloyd, EW and Lammer, EJ. Reversed enzyme activity interrogation test (READIT) as a method for genotyping NAT1 polymorphisms. **Genetic Testing** 6:245-253, 2002 (NCER).

Ito, K, DeLeon, S, Thurston, GD, Nadas, A and Lippmann, M. Monitor-to-monitor temporal correlation of air pollution in the contiguous US. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 172-184, 2005.

Ito K, Christensen WF, Eatough DJ, Henry RC, Kim E, Laden F, Lall R, Larson TV, Neas L, Hopke PK and Thurston GD. PM source apportionment and health effects: 2. An investigation of intermethod variability in associations between source-apportioned fine particle mass and daily mortality in Washington, DC. Journal of Exposure Analysis and Environmental Epidemiology, in press, 2005.

Jarvik, GP, Rozek, LS and Brophy, VH. Paraoxonase (PON1) phenotype is a better predictor of vascular disease than is PON1(192) or PON1(55) genotype. Arteriosclerosis Thrombosis and Vascular Biology 20: 2441 – 2447, 2000 (NCER).

Jarvik G, Jampsa R, Richter R, Carlson C, Rieder M, Nickerson D and Furlong C. Novel paraoxonase (PON1) nonsense and missense mutations predicted by functional genomic assay of PON1 status. **Pharmacogenetics** 13: 291-5, 2003 (NCER).

Jedrychowski, W, Whyatt, RM, Camann, DE, Bawle, UV, Peki, K, Spengler, JD, Dumyahn, TS, Penar, A and Perera, FP. Effect of prenatal PAH exposure on birth outcomes and neurocognitive development in a cohort of newborns in Poland. **International Journal of Occupational Medicine and Environmental Health** 16: 21 – 29, 2003 (NCER)

Jedrychowski W, Bendkowska I, Flak E, Penar A, Jacek R, Kaim I, Spengler JD, Camann D and Perera FP. Estimated risk for altered fetal growth resulting from exposure to fine particles during pregnancy: an epidemiologic prospective cohort study in Poland. **Environmental Health Perspectives** 112:1398-402, 2004 (NCER).

Jedrychowski, W, Perera, FP, Pac, A, Jacek, R, Whyatt, RM, Spengler, JD, Dumyahn, TS and Sochacka-Tatara, E. Variability of total exposure to PM(2.5) related to indoor and outdoor air pollution sources Drakow study in pregnant women. **Science of the Total Environment**, in press, 2005 (NCER).

Jenkins, SM and Barone, S Jr, The neurotoxicant trimethyltin causes apoptosis via oxidative stress, caspase activation and P38 protein kinase. **Toxicological Letters** 147: 63-72, 2004.

Jenkins, SM, Ehman, K and Barone, S Jr. Structure-activity comparison of organotin species: Dibutyltin is a developmental neurotoxicant *In Vitro* and *In Vivo*. **Developmental Brain Research** 151:1-12, 2004.

Jerman, TS, Desner, RP, Lee, I and Berman, RE. Patterns of hippocampal loss based on subregional lesions of the hippocampus. **Brain Research** 1065: 1-7, 2005.

Johnston, RA, Mizgerd, JP, Lupa, MM and Shore, SA. Chemokine receptor 2 contributes to ozone induced airway hyperresponsiveness. **American Journal of Respiratory and Critical Care Medicine** 167:A885, 2003 (NCER).

Johnston, RA, Schwartzman, IN, Flynt, L and Shore, SA. Role of interleukin-6 in murine airway responses to ozone. **America Journal of Physiology Lung Cellular Molecular Physiology** 288:L390-L397, 2005 (NCER).

Judd, NL, Griffith, WC and Ylitalo, GM. Alternative strategies for PCB risk reduction from contaminated seafood: Options for children as susceptible populations. **Bulletin of Environmental Contamination and Toxicology** 69: 847 – 854, 2002 (NCER).

Judd N, O'Neill S and Kalman D. Are seafood PCB data sufficient to assess health risk for high seafood consumption groups? **Human and Ecological Risk Assessment** 9: 691, 2003 (NCER).

Judd N, Griffith W and Faustman E. Consideration of cultural and lifestyle factors in defining susceptible populations for environmental disease. **Toxicology** 198: 121-133, 2004 (NCER).

Judd N, Griffith W and Faustman E. Contribution of PCB exposure from fish consumption to total dioxin-like dietary exposure. **Regulatory Toxicology and Pharmacology** 40: 125-135,

2004 (NCER).

Judd N, Griffith W, Kalman D and Faustman E. Assessment of PCB congener analytical methods: do they meet risk assessment needs? **Archives of Environmental Contamination and Toxicology** 44: 132-139, 2003 (NCER).

Judd N, Griffith W, Takaro T and Faustman E. A model for optimization of biomarker testing frequency to minimize disease and cost: example of beryllium sensitization testing. **Risk Analysis** 23: 1211-1220, 2003 (NCER).

Juskow, T, Henderson, C, Canfield, R and Lanphear, BP. Lead toxicity in children, **Environmental Health Perspectives**, in press (NCER).

Kadlubar, FF, Berkowitz, GS, Delongchamp, RR, Wang, C, Green, BL, Tang, G, Lamba, J, Schuetz, E and Wolff, MS. The CYP3A4\*1B variant is related to the onset of puberty, a known risk factor for the development of breast cancer. **Cancer Epidemiology, Biomarkers and Prevention** 12: 327 – 331, 2003 (NCER).

Kahn, RS, Khoury, J, Nichols, WC and Lanphear, BP. Role of dopamine transporter genotype and maternal prenatal smoking in childhood hyperactive impulsive, inattentive, and oppositional behaviors. **Journal of Pediatrics** 143: 104 – 110, 2003 (NCER)

Kalkwarf, HJ, Khoury, JC and Lanphear BP. Milk intake during childhood and adolescence, adult bone density, and osteoporotic fractures in US women. **American Journal of Clinical Nutrition** 77: 257 – 265, 2003 (NCER).

Kato, M, Loomis, D, Brooks, LM, Gattas, GF, Gomes, L, Carvalho, AB, Rego, MA and DeMarini, D. Urinary biomarkers in charcoal workers exposed to wood smoke in Bahai State, Brazil. **Cancer Epidemiology Biomarkers and Prevention** 13: 1005-1012, 2004.

Kato, M, DeMarini, DM, Carvalho, AB, Rego, MA, Andrade, AV, Bonfim, AS and Loomis, D. World at work: charcoal producing industries in northeastern Brazil. **Occupational and Environmental Medicine** 62: 128-132, 2005.

Kelada, SN, Costa-Mallen, P and Checkoway, H. Paraoxonase 1 promoter and coding region polymorphisms in Parkinson's disease. **Journal of Neurology, Neurosurgery and Psychiatry** 74: 546 – 547, 2003 (NCER).

Kelada, SN, Stapleton, PL and Farin, FM. Glutathione S-transferase M1, T1, and P1 polymorphisms and Parkinson's disease. **Neuroscience Letters** 337: 5 – 8, 2003 (NCER).

Karanth, S, Olivier, J, Liu, J and Pope, C. In vivo interaction between chlorpyrifos and parathion in adult rats: sequence of administration can markedly influence toxic outcome. **Toxicology and Applied Pharmacology** 177:247-255, 2001 (NCER).

Keeler, J, Dvonch, T, Yip, F, Parker, E, Israel, B and Marsik, F. Assessment of personal exposures to particulate matter (PM) among asthmatic children in Detroit, Michigan as part of

Community Action Against Asthma (CAAA). Environmental Health Perspectives 110:173-181, 2002 (NCER).

Kim, I-H, Heirtzler, FR, Morisseau, C, Nishi, K, Tsai, H-J and Hammock, BD. Optimization of amide-based inhibitors of soluble epoxide hydrolase with improved water solubility. **Journal of Medicinal Chemistry** 48:3621-3629, 2005 (NCER).

Kim, J, Merry, AC, Nemzek, JA, Bolgos, GL, Siddiqui, J and Remick, DG. Eotaxin represents the principal eosinophil chemoattractant in a novel murine asthma model induced by house dust containing cockroach allergens. **Journal of Immunology** 167:2808-2815, 2001 (NCER).

Kim, YM, Reed, W, Lenz, AG, Jaspers, I, Silbajoris, R, Nick, HS and Samet, JS. Ultrafine carbon particles induced interleukin-8 gene transcription and p38 MAPK activation in normal human bronchial epithelial cells. **American Journal of Physiology- Lung Cellular and Molelcular Physiology** 288:L432-L441, 2005.

Kim, YM, Reed, W, Wu, W, Bromberg, PA, Graves, LM and Samet, JM. Zn2+-induced IL-8 expression involves AP-1, JNK, and ERK activities in human airway epithelial cells. **American Journal of Physiology- Lung Cellular and Molecular Physiology**, in press, 2005.

Kimmel, CA, Collman, GW, Fields, N and Eskenazi, B. Lessons learned from the National Institute of Environmental Health Sciences/US Environmental Protection Agency Centers for Children's Environmental Health ad Disease Prevention Research. **Environmental Health Perspectives** 113: 1414 1418, 2005.

Kinney, PL, Northridge, M, Gronning, E, Joseph, E, Frantz, S and Prakash, S. On the front lines of environmental interventions to reduce asthma. **American Journal of Public Health** 92: 1 - 3, 2002 (NCER).

Kirrane, K, Hoppin, JA, Kamel, J, Umbach, DM, Boyes, W, DeRoss, A, Alavanja, M and Sandler, DP. Retinal degeneration and other eye disorders in wives of farmer pesticide applicators enrolled in the agricultural health study. **American Journal of Epidemiology** 161: 1020-1029, 2005.

Kissel, JC, Curl, CL, Kedan, G, Lu, CA, Griffith, W, Barr, DB, Needham ,LL and Fenske, RA. Comparison of organophosphorus pesticide metabolite levels in single and multiple daily urine samples collected from pre-school children in Washington State. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 164-171, 2005.

Kleeberger, SR and Peden, D. Gene-environment interactions in asthma and other respiratory diseases. **Annual Review of Medicine** 56: 383-400, 2005.

Kleeberger SR, Reddy S, Yi Zhang L and Jedlicka AE. Genetic susceptibility to ozone -induced lung hyperpermeability: Role of toll- like receptor 4. American Journal of Respiratory Cell and Molecular Biology 22:620-627, 2000 (NCER).
Kleeberger SR., Reddy SPM, Zhang LY, Cho HY and Jedlicka AE. Toll-like receptor 4 mediates ozone-induced murine lung hyperpermeability via inducible nitric oxide synthase. **American Journal of Physiology-Lung Cellular and Molecular Physiology** 280: 326-333, 2001 (NCER).

Kline, JN, Cowden, JD, Hunninghake, GW, Watt, JL, Wohlford-Lenane, CL, Powers, LS, Jones, MP and Schwartz, DA. Variable airway responsiveness in inhaled lipopolysaccharide. **American Journal of Respiratory and Critical Care Medicine** 160:297-303, 1999 (NCER).

Kline, JN, Jagielo, PJ, Watt, JL and Schwartz, DA. Bronchial hyperreactivity is associated with enhanced grain dust-induced airflow obstruction. **Journal of Applied Physiology** 89:1172-1178, 2000 (NCER).

Koch, D, Lu, C and Fisker-Andersen, J. Temporal association of children's pesticide exposure and agricultural spraying: report of a longitudinal biological monitoring study. **Environmental Health Perspectives** 110: 829 – 833, 2002 (NCER).

Kongerud, J, Crissman, K, Hatch, G and Alexis, N. Ascorbic acid is decreased in induced sputum of mild asthmatics. **Inhalation Toxicology** 15: 101-109, 2003.

Koren, HS and Crawford-Brown, D. A framework for the integration of ecosystem and human health in public policy. **Environmental Research** 95:92-105, 2004.

Kousba, A, Poet, TS and Timchalk, C. Potential utility of saliva biomonitoring for assessing organophosphate insecticide dosimetry and esterase inhibition. **Toxicological Sciences** 72:1484, 2003 (NCER).

Kousba, AA, Poet, TS and Timchalk, C. Characterization of the in vitro kinetic interaction of chlorpyrifos-oxon with rat salivary cholinesterase: a potential biomonitoring matrix. **Toxicology** 188:219-232, 2003 (NCER).

Kramer, CB, Cullen, AC and Faustman, EM. Policy implications of genetic information on regulation under the Clean Air Act: the case of particulate matter and asthmatics. **Environmental Health Perspectives** 114:313-319, 2006 (NCER).

Krishnan JA, Diette GB, Skinner EA, Clark BD, Steinwachs D and Wu AW. Race and sex differences in consistency of care with national asthma guidelines in managed care organizations. **Archives of Internal Medicine** 161:1660-1668, 2001 (NCER).

Krishnan JA, Diette GB and Rand CS. Disparities in outcomes from chronic disease: Impaired patient-physician partnerships may be an important cause in minorities. **British Medical Journal** 323: 950, 2001 (NCER).

Kundu, B, Richardson, SD, Granville, CA, Shaughnessy, DT, Hanley, NM, Swartz, PD, Richard, AM and DeMarini, D. Comparative mutagenicity of halomethanes and halnitromethanes in Samonella TA100: structure-activity analysis and mutation spectra. **Mutation Research** 554: 335-350, 2004.

Kundu, B, Richardson, SD, Swartz, PD, Matthews, PP, Richard, AM and DeMarini, D. Mutagenicitiy in Salmonella of halonitromethanes: a recently recognized class of disinfection by-products in drinking water. **Mutation Research** 562: 39-65, 2004.

Kunzli, N, McConnell, R, Bates, D, Bastain, TM, Hricko, A, Lurmann, F, Avol, E, Gilliland, FD and Peters, JM. Breathless in Los Angeles: The exhausting search for clean air. 2003. **American Journal of Public Health** 93:1494-1499, 2003 (NCER).

Laden F, Neas LM, Spiegelman D, Hankinson SE, Willett WC, Ireland K, Wolff MS and Hunter DJ. Predictors of plasma concentrations of DDE and PCBs in a group of U.S. women. Environmental Health Perspectives 107:75-81, 1999.

Laden, F, Neas, LM, Dockery, DW and Schwartz, J. Association of fine particulate matter from different sources with daily mortality in six US cities. **Environmental Health Perspectives** 108:941-947, 2000.

Laden ,F, Neas, LM, Tolbert, PE, Holmes, MD, Hankinson, SE, Spiegelman, D, Speizer, FE and Hunter, DJ. Electric blanket use and breast cancer in the Nurses' Health Study. **American Journal of Epidemiology** 152:41-49, 2000.

Laessing, SA, McCarthy, MM and Silbergeld, EK. Neurotoxicity of endocrine disruptors. **Current Opinion in Neurology** 12:745-751, 1999.

Laessig, SA, Tabacova, SA and Kimmel, CA. A review of reproductive and developmental effects of pesticide exposure in humans. **Journal of Children's Health** 1:405-447, 2003.

LaKind, J, Birnbach, N, Borgert, CJ, Sonawane, BR, Tully, MR and Friedman, L. Human milk surveillance and research of environmental chemicals: concepts for consideration in interpreting and presenting study results. **Journal of Toxicology and Environmental Health** A65: 1909-1910, 2002.

Lambert AL, Dong, Selgrade, MK and Gilmour, MI. Enhanced allergic sensitization by residual oil fly ask particles is mediated by soluble metal constituents. **Toxicology and Applied Pharmacology** 165: 84-93, 2000.

1Lambert, AL., Winsett, DW, Selgrade, MJ and Gilmour, MI. Residual oil fly ash (ROFA) enhances allergic airway responses to house dust mite (HDM) in Brown Norway rats **Toxicology and Applied Pharmacology**158:269-277, 1999.

Lambert, AL., Selgrade, MJ, Winsett, DW and Gilmour, MI. TNF-a enhanced allergic sensitization to house dust mite in Brown Norway rats. **Experimental Lung Research** 27: 617-635, 2001.

Lammer, EJ, Shaw, GM, Iovannisci, D, Van, W and Finnell, RH. Maternal smoking and the risk of orofacial clefts: Susceptibility with NAT1 and NAT2 polymorphisms. **Epidemiology** 15:150-156, 2004 (NCER).

Landis, MS Vette, AF and Keeler, GJ. Atmospheric mercury in the Lake Michigan basin: Influence of the Chicago/Gary urban area. **Environmental Science and Technology** 36: 4508-4517, 2002.

Landrigan, PJ. Children's health and the environment. **European Journal of Oncology** 4:661-664, 1999 (NCER).

Landrigan, PJ. Risk Assessment for Children and Other Sensitive Populations. In Uncertainty in the Risk Assessment of Environmental and Occupational Hazards. **Annals of the New York Academy of Sciences** 895:1-9, 1999 (NCER).

Landrigan, PJ. Pesticides, PCBs, and the Risk to Children. **Contemporary Pediatrics** 18:110-126, 2001.

Landrigan, P. Pesticides and Polychlorinated biphenyls (PCBs): An analysis of the evidence that they impair children's neurobehavioral development. **Molecular Genetics and Metabolism** 73:11-7, 2001 (NCER).

Landrigan, PJ: Children's environmental health: Lessons from the past and prospects for the future. **Pediatrics Clinics of North America** 48:1319-1330, 2001 (NCER).

Landrigan, PJ. Environmental factors and pediatric disease: New developments in research and education. Journal of the San Francisco Medical Society 77:18-19, 2004 (NCER).

Landrigan, PJ. Children as a vulnerable population. **International Journal of Occupational Medicine and Environmental Health** 17:175-177, 2004 (NCER).

Landrigan, PJ. Essays in public health and preventive medicine. **Mt. Sinai Journal of Medicine** 73: 564-572, 2006.

Landrigan, PJ and Garg, A. Chronic effects of toxic environmental exposures on children's health. **Clinical Toxicology** 40:449-459, 2002 (NCER).

Landrigan, PJ and Slutsky, J. Are learning disabilities linked to environmental toxins? **Learning Disabilities Journal** 15:7-12, 2004 (NCER).

Landrigan, PJ and Tamburlini, G. Children's health and the environment: a transatlantic dialogue. **Environmental Health Perspectives** 113: A646-A647, 2005 (NCER).

Landrigan, PJ, Suk, WA and Amler RW. Chemical wastes, children's health, and the Superfund Basic Research Program. **Environmental Health Perspectives** 107: 423 – 427, 1999 (NCER).

Landrigan PJ, Boffetta P and Apostoli P. The reproductive toxicity and carcinogenicity of lead: a critical review. **American Journal of Industrial Medicine** 38: 231-243, 2000 (NCER).

Landrigan, P, Garg, A, and Droller, DBJ. Assessing the Effects of Endocrine Disruptors in the National Children's Study. **Environmental Health Perspectives** 111:1678-1682, 2003 (NCER).

Landrigan, PJ, Kimmel, CA, Correa, A and Eskenazi, B. Children's health and the environment: public health issues and challenges for risk assessment. **Environmental Health Perspectives** 112: 257 – 265, 2004 (NCER).

Landrigan, PJ, Schechter, CB, Lipton, JM, Fahs, MC and Schwartz, J. Environmental pollutants and disease in American children: Estimates of morbidity, mortality and costs for lead poisoning, asthma, cancer and developmental disabilities. **Environmental Health Perspectives** 110:721-728, 2002 (NCER).

Landrigan,PJ, Sonawane, B, Butler, RN, Trasande, L. Callan, R, and Droller, D. Early environmental origins of neurodegenerative disease in later life. **Environmental Health Perspectives** 113: 1230-1233, 2005.

Landrigan, PJ, Sonawane, B, Mattison, D, McCally, M and Garg, A. Chemical contaminants in breast milk and their impacts on children's health: an overview. **Environmental Health Perspectives** 110: A313-A315, 2002.

Landrigan, PJ, Claudio, L, Markowitz, SB, Berkowitz, GS, Brenner, BL, Romero, H, Wetmur, JG, Matte, TD, Gore, AC, Godbold, JH and Wolff, MS. Pesticides and inner-city children: exposures, risks, and prevention. **Environmental Health Perspectives** 107: 431 – 437, 1999 (NCER).

Landrigan, PJ, Lioy, PJ, Berkowitz, G, Chen, LC, Chillrud, SN, Georgopoulos, PG, Geyh, As, Levin, S, Perera, F, Rappaport, SM, Small, C and Thurston, G. Health and environmental consequences of the World Trade Center Disaster. The NIEHS World Trade Center Working Group. **Environmental Health Perspectives** 112:731-739, 2004 (NCER).

Landrigan PJ, Lioy PJ, Thurston G, Berkowitz G, Chen LC, Chillrud SN, Gavett SH, Georgopoulos PG, Geyh AS, Levin S, Perera F, Rappaport SM and Small C. NIEHS World Trade Center Working Group. Health and environmental consequences of the World Trade Center disaster. **Environmental Health Perspectives** 112:731-739, 2004 (NCER).

Lanphear, BP (Associate Editor) for Pediatrics Supplement: The vulnerability, sensitivity, and resiliency of the developing embryo, infant, child, and adolescent to the effects of environmental chemicals, drugs, and physical agents as compared to the adult. **Pediatrics** 113:932-1172, 2004 (NCER).

Lanphear, BP. Childhood lead poisoning prevention: too little, too late. **Journal of the American Medical Association** 293:2274-2276, 2005 (NCER).

Lanphear,BP and Bearer, CF. Biomarkers in paediatric research and practice. Archives of Diseases in Childhood 90:594-600, 2005 (NCER).

Lanphear, BP and Gergen, PJ. Asthma surveillance in US children (invited commentary), **American Journal of Epidemiology**158: 105 – 107, 2003 (NCER).

Lanphear, BP, Dietrich, KN and Berger, O. Prevention of lead toxicity in US children. **Ambulatory Pediatrics** 3: 27 – 36, 2003 (NCER).

Lanphear, BP, Hornung, R and Ho, M. Screening housing to prevent lead toxicity in children. **Public Health Reports** 120:305-310, 2005 (NCER).

Lanphear BP, Wright RO, Dietrich KN. Environmental neurotoxins. **Pediatric Reviews** 26:191-197, 2005 (NCER).

Lanphear, BP, Succop, P, Roda, S and Henningsen, G. The effect of soil abatement on blood lead levels in children living near a former smelting and milling operation. **Public Health Report** 118: 83 – 91, 2003 (NCER).

Lanphear, BP, Hornung, R, Ho, M, Howard, CR, Eberly, S and Knauf, K. Environmental lead exposure during early childhood. **Journal of Pediatrics** 140: 40 – 47, 2002 (NCER).

Lanphear, BP, Howard, C, Eberly, S, Auinger, P, Kolassa, J, Weitzman, M, Schaffer, SJ and Alexander, K. Primary prevention of childhood lead exposure: A randomized trial of dust control. **Pediatrics** 103: 772-777, 1999 (NCER).

Lanphear, BP, Hornung, R, Khoury, J, Yolton, K, Baghurst, P, Bellinger, DC, Canfield, RL, Dietrich, KN, Bornschein, R, Greene, T, Rothenberg, SJ, Needleman, HL, Schnaas, L, Wasserman, G and Graziano, J. Low-level environmental lead exposure and children's intellectual function: an international pooled analysis. **Environ Health Perspectives** 113:894-899, 2005 (NCER).

Lassiter, TL, Barone, S Jr., Moser, VC and Padilla, S. Gestational exposure to chlorpyrifos: Dose response profiles for cholinesterase and carboxylesterase in the fetus and dam. **Toxicology and Applied Pharmacology** 52: 92-100, 1999.

Lau, C and Setzer, RW. Biologically based risk assessment models for developmental toxicity. **Methods in Molecular Biology** 136: 271-281, 2000.

Lau, C and Rogers, JM. Embryonic and fetal programming of physiological disorders in adulthood. **Birth Defects Research C Embryo Today** 72: 300-312, 2004.

Lau ,C, Andersen, ME, Crawford-Brown, D, Kavlock, RJ, Kimmel, CA, Knudsen ,TB, Muneoka, K, Rogers, JM, Setzer, RW, Smith, G and Tyl R. Evaluation of biologically based dose-response modeling for developmental toxicity: A workshop report. **Regulatory Toxicology and Pharmacology** 31:190–199, 2000.

Lau, C, Mole, ML Copeland, MF, Rogers, JM, Kavlock, RJ, Shuey, DL, Cameron ,AM, Ellis, DH, Logsdon, TR, Merriman, J and Setzer RW. Toward a biologically based dose-response model for developmental toxicity of 5-fluorouracil in the rat: Acquisition of experimental data. **Toxicological Sciences** 59: 37–48, 2001.

Lau, C, Narotsky, MG, Lui, D, Best, D, Setzer RW, Mann, PG, Wubah, JA and Knudsen, TB. Exposure-disease continuum for 2-chloro-2'-deoxyadenosine (2-CdA), a prototype teratogen: Induction of lumbar hernia in the rat and species comparisons for the teratogenic responses. **Teratology** 66:6–18, 2002.

Lau, C, Thibodeaux, JR, Hanson, RG, Narotsky, MG, Rogers, JM, Lindstrom, AB and Strynar, MJ. Effects of perfluorooctanoic acid exposure during pregnancy in the mouse. **Toxicological Sciences** 90: 510-518, 2006.

Lawler CP, Croen LA, Grether JK and Van de Water J. Identifying environmental contributions to autism: provocative clues and false leads. Maternal Retardation and Developmental Disability Research Reviews 10: 292-302, 2004 (NCER).

Lay, JC, Bennett, W, Ghio, A, Bromberg, P, Costa, D, Kim, C, Koren, H and Devlin, R. Cellular and biochemical response of the human lung following intrapulmonary instillation of ferric oxide particles. American Journal of Respiratory Cell and Molecular Biology 20: 631-642, 1999.

Lederman SA, Rauh VA, Weiss L, Stein JL, Hoepner LA, Garfinkel R, Becker M and Perera FP. The Effects of the World Trade Center event on birth outcomes among term deliveries at three lower Manhattan hospitals. **Environmental Health Perspectives** 112:1772-1778, 2004 (NCER).

Lee,K,Vallarino, J,Dumyahn, T, Özkaynak H and Spengler, JD. Ozone decay rates in residences. **Journal of the Air and Waste Management Association** 49:1238-1244, 1999.

Lee, K, Xue, J, Geyh, AS, Özkaynak H, Leaderer, B, Weschler C and Spengler, JD. Nitrous acid, nitrogen dioxide, and ozone concentrations in residential environments. **Environmental Health Perspectives** 110:145-149, 2002.

Lee, K, Parkhurst, WJ, Xue, J, Özkaynak, H, Neuberg, D and Spengler, JD. Outdoor/ indoor/personal ozone exposures of children in Nashville, Tennessee. **Journal of the Air and Waste Management Association** 54:352-359, 2004.

Lemasters, GK, Olsen ,DM, Yiin, JH, Lockey, JE, Shulka, R, Selevan, SG, Schrader, SM, Toth, GP, Evenson, DP and Huszar, GB Male reproductive effects of solvent and fuel exposure during aircraft maintenance. **Reproductive Toxicology** 13:155-66, 1999.

Lewandowski, TA, Pierce, CH, Pingree, SD, Hong, S and Faustman, EM. Methylmercury distribution in the pregnant rat and embryo during early midbrain organogenesis. **Teratology** 66:235-241, 2002 (NCER).

Lewandowski, TA, Ponce, RA, Charleston, JS, Hong, S and Faustman, EM. Changes in cell cycle parameters and cell number in the rat midbrain during organogenesis. **Brain Research Development Brain Research** 141:117-128, 2003 (NCER).

Lewandowski T, Ponce R, Charleston J, Hong S and Faustman E. Effect of methylmercury on midbrain cell proliferation during organogenesis: potential cross-species differences and implications for risk assessment. **Toxicological Sciences** 75: 124-133, 2003.

Lewis RD, Breysse PN Sterling DA and King B. A soiling system for evaluation of house dust, allergens, and lead retention on carpets and other surfaces. **Applied Occupational and Environmental Hygiene** 14: 845-851, 1999 (NCER).

Lewis RD and Breysse PN. Carpet properties, which affect the retention of cat allergen. **Annals of Allergy Asthma and Immunology** 84: 31-39, 2000 (NCER).

Li, D-W, Yang, CS, Haugland, RA and Vesper, S. J. A new species of *Memnoniella*. Mycotaxon 85:253-257, 2003.

Li L and Li H. Dimension reduction methods for microarrays with application to censored survival data. **Bioinformatics** 20:3406-3412, 2004 (NCER).

Li, YF, Tsao, YH, Gauderman, WJ, Conti, DV, Avol, E, Dubeau, L and Gauderman, FD Intercellular adhesion molecule-1 and childhood asthma. **Human Genetics** 117: 476-484, 2005 (NCER).

Li, YF, Langholz, B, Salam, MT and Gilliland, FD. Maternal and grandmaternal smoking patterns are associated with early childhood asthma. **Chest** 127: 1232-1241, 1005 (NCER).

Li, YF, Gauderman, WJ, Avol, E, Dubeau, L and Gilliland FD. Associations of tumor necrosis factor G-308-A with childhood asthma and wheezing. **American Journal of Respiratory and Critical Care Medicine**, in press, 2006.

Li W, Costa L, Richter R, Hagen T, Shih D, Tward A, Lusis A and Furlong C. Catalytic efficiency determines the in-vivo efficacy of PON1 for detoxifying organophosphorus compounds. **Pharmacogenetics** 10: 767-779, 2000 (NCER).

Limb SL, Brown KC, Wood RA, Wise RA, Eggleston PA, Tonascia J, Hamilton RG and Adkinson NF Jr. Adult asthma severity in individuals with a history of childhood asthma. **Journal of Allergy and Clinical Immunology** 115:61-66, 2005 (NCER).

Limb, SL, Brown, KC, Wood, RA, Wise, RA, Eggelston, PA, Tonascia, J and Adkinson, NF. Irreversible lung function deficits in young adults with a history of childhood asthma **Journal of Allergy and Clinical Immunology** 116: 1213-1219, 2005 (NCER).

Liu, J, Olivier, K and Pope, CN. Comparative neurochemical effects of repeated methyl parathion or chlorpyrifos exposures in neonatal and adult rats. **Toxicology and Applied Pharmacology** 158:186-196, 1999 (NCER).

Liu, WF, Costa, LG and Richter, RJ. Catalytic efficiency determines the in-vivo efficacy of PON1 for detoxifying organophosphorus compounds. **Pharmacogenetics** 10: 767 – 779, 2000 (NCER).

Liu ,X, Dietrich, KN and Radcliffe J. Do children with falling blood lead levels have improved cognition? **Pediatrics** 110:787–791, 2002 (NCER).

Lobdell ,DT, Buck, GM, Weiner, JM and Mendola, P. Using commercial telephone directories to obtain a population-based sample for mail survey of women of reproductive age. **Paediatric and Perinatal Epidemiology** 17:294-301, 2003.

Lobdell, DT, Gilboa, S, Mendola, P and Hesse BW. Use of focus groups for the environmental health researcher. **Journal of Environmental Health** 67: 36-42, 2005.

Lobdell, DT and Mendola, P. Development of a biomarkers database for the National Children's Study. **Toxicology and Applied Pharmacology** 206: 269-272, 2005.

Longnecker, MP, Wolff, MS, Gladen, BC, Brock, JW, Granjean, P, Jacobson, JL, Korrick, SA, Rogan, WJ, Weisglas-Kuperus, N, Herz-Picciotto, I, Ayotte, P, Stewart, P, Winneke, G, Charles, MJ, Jacobson, SW, Dewailly, E, Boersma, ER, Altshul, LM, Heinzow, B, Pagano, JJ, and Jensen AA. Comparison of polychlorinated biphenyls (PCBs) levels across studies of human neurodevelopment. **Environmental Health Perspectives** 111:65-70, 2003 (NCER).

Longnecker, MP, Bellinger, DC, Crews, D, Eskenazi, B, Silbergeld, EK, Woodruff, TJ and Susser, ES. An approach to assessment of endocrine disruption in the National Children's Study. **Environmental Health Perspectives** 111:1691-1697, 2003 (NCER).

Lopez-Carrillo, L, Torres-Sanchez, L, Moline, J, Ireland, K and Wolff, MS. Breast-feeding and serum p,p'DDT levels among Mexican women of childbearing age: a pilot study. **Environmental Research** 87: 131 – 153, 2001 (NCER).

Louis, GM, Weiner, JM, Whitcomb, BW, Sperrazza, R, Schisterman, EF, Lobdell, DT, Crickard, K, Greizerstein, H and Kostyniak, PJ. Environmental PCB exposure and risk of endometriosis. **Human Reproduction** 20: 279-285, 2005.

Lu, C and Fenske, RA. Dermal transfer of chlorpyrifos residues from residential surfaces: comparison of hand press, hand drag, wipe, and polyurethane foam roller measurements after broadcast and aerosol pesticide applications. **Environmental Health Perspectives** 107: 463 – 467, 1999 (NCER).

Lu, C, Showlund-Irish, R and Fenske, RA. Biological monitoring of diazinon exposure using saliva in an animal model. **Journal of Toxicology and Environmental Health** 66:2315-2325, 2003 (NCER).

Lu, C, Fenske, RA, Simcox, NJ and Kalman, D. Pesticide exposure of children in an agricultural community: evidence of household proximity to farmland and take home exposure pathways. **Environmental Research** 84:290–302, 2000 (NCER).

Lu, C, Knutson, DE and Fisker-Andersen, J. Biological monitoring survey of organophosphorus pesticide exposure among pre-school children in the Seattle metropolitan area. **Environmental Health Perspectives** 109:299–303, 2001 (NCER).

Lu, C, Kedan, G, Fisker-Andersen, J, Kissel, JC and Fenske, RA. Multi-pathway organophosphorus pesticides exposures of pre-school children in rural central Washington State and the Seattle metropolitan area. **Environmental Research** 96:283–289, 2004 (NCER).

Luebke, RW, Copeland, CB, Daniels, A and Gilmour, MI. Suppression of allergic responses to house dust mite (HDM) in rats exposed to 2,3,7,8-TCDD. **Toxicological Sciences** 62:71-79, 2001.

Luebke, RW, Copeland, CB, Bishop, LR, Daniels, M and Gilmour, MI. Mortality in dioxinexposed mice infected with influenza: mitochondrial toxicity (Reyes-like syndrome) versus enhanced inflammation as the mode of action. **Toxicological Sciences** 69: 109-116, 2002.

Lynberg, M, Nuckols, J, Ashley, D, Singer, P, Mendola, P, Wilkes, C, Langois, P, Miles, E, Krapfl, H, Speight, V, Lin, B, Small, L, Miles, A, Bonin, M, Zeitz, P, Tadkod, A and Forrester, M. Assessing exposure to disinfection byproducts in women of reproductive age living in Corpus Christi, Texas, and Cobb County, Georgia. **Environmental Health Perspectives** 109: 597-604, 2001.

Marcus ,M, McChesney, R, Golden, A, and Landrigan, PJ: Video Display Terminals and Miscarriages. Journal of the American Medical Women's Association 55:84-88, 2000 (NCER).

Maibach, H, Naranch, K, Repka-Ramirez, SM, Pheiffer, A, Hwang, E, Clauw, D and Baraniuk, JN. Multiple chemical sensitivity in Chronic Fatigue Syndrome (CFS). **Journal of Allergy and Clinical Immunology** 107:S27, 2001 (NCER).

Makridakis, N, diSalle, E and Reichardt, JK. Biochemical and pharmacogenetic dissection of human steroid 5alpha reductase type II. **Pharmacogenetics** 10:407-413, 2000 (NCER).

Manson, JM and Carr, MC. Molecular epidemiology of hypospadias: review of genetic and environmental risk factors. **Birth Defects Research A Clinical and Molecular Teratology** 67:825-836, 2003 (NCER).

Mar TF, Ito K, Koenig JQ, Larson TV, Eatough DJ, Henry RC, Kim E, Laden F, Lall R, Neas L, Stolzel M, Paatero P, Hopke PK and Thurston GD. PM source apportionment and health effects. 3. Investigation of inter-method variations in associations between estimated source contributions of PM(2.5) and daily mortality in Phoenix, AZ. Journal of Exposure Analysis and Environmental Epidemiology, in press, 2005.

Matsui E, Kagey-Sobotka A, Chichester K and Eggleston P. Allergic potency of recombinant Fel d 1 is reduced by low concentrations of chlorine bleach. **Journal of Allergy and Clinical Immunology** 111:396-401, 2003 (NCER).

Matsui EC, Wood RA, Rand C, Kanchanaraksa S, Swartz L, Curtin-Brosnan J and Eggleston PA. Cockroach allergen exposure and sensitization in suburban, middle class children with

asthma. Journal of Allergy and Clinical Immunology 112: 87-92, 2003 (NCER).

Matsui EC, Wood RA, Rand C, Kanchanaraksa S, Swartz L and Eggleston PA. Mouse allergen exposure and mouse skin test sensitivity in suburban, middle-class children with asthma. **Journal of Allergy and Clinical Immunology** 113:910-915, 2004 (NCER).

Matsui EC, Krop EJ, Diette GB Aalberse RC, Smith AL and Eggleston PA. Mouse allergen exposure and immunologic responses: IgE-mediated mouse sensitization and mouse specific IgG and IgG4 levels. Journal of Allergy and Clinical Immunology 93:171-178, 2004 (NCER).

Matsui EC, Simons E, Rand C, Butz A, Buckley TJ, Breysse P, Eggleston PA. Airborne mouse allergen in the homes of inner city children with asthma. **Journal of Allergy and Clinical Immunology** 115:358-363, 2005 (NCER)

Matusi, EC, Diette, GB, Krop, EF, Aalberse, RC, Smith, AL, Curtin-Brosnan, J and Eggleston, PA. Mouse allergen-specific immunoglobulin G and immunoglobulin G4 and allergic symptoms in immunoglobulin E-sensitized laboratory animal workers. **Clinical and Expimental Allergy** 35:1347-1353, 2005 (NCER).

Matte, TD, Bresnaga, M, Begg, MD and Susser E: Influence of variation in birth weight within normal range and within siblings on IQ at age 7 years: cohort study. **British Medical Journal** 323:310-4, 2001 (NCER).

Mayer RJ and Wills-Karp M. Recent insights into pathogenesis and control of asthma and atopic diseases. **Inflammation Research** 48: 469-470, 1999 (NCER).

McConnell, R, Berhane, K, Gilliland, F, London, SJ, Vora, H, Avol, E, Gauderman, WJ, Margolis, HG, Lurmann, F, Thomas, DC and Peters, JM. Air pollution and bronchitic symptoms in Southern California children with asthma. **Environmental Health Perspectives** 107:757-760, 1999 (NCER).

McConnell R, Delgado-Tellez E, Cuadra R, Torres E, Keifer M, Almendarez J, Miranda J, El-Fawal HAN, Wolff MS, Simpson D and Lundberg I. Organophosphate neuropathy due to Methamidophos: Biochemical and neurophysiological markers. **Archives of Toxicology** 73:296-300, 1999.

McConnell, R, Berhane, K, Gilliland, F, London, SJ, Islam, T, Gauderman, WF, Avol, E, Margolis, HG and Peters, JM. Asthma in exercising children exposed to ozone: a cohort study. **Lancet** 359:386-391, 2002.

McConnell, R, Berhane, K, Billiland, F, Islam, T, Gauderman, WJ, London, SJ, Avol, E, Rappaport, EB, Maragolis, HG and Peters, JM. Indoor-risk factors for asthma in a prospective study of adolescents. **Epidemiology** 13: 288-295, 2002.

McConnell R , Jones C, Milam J, Gonzalez P, Berhane K, Clement L, Richardson J, Hanley-Lopez J, Kwong K, Malouf N, Cahero J and Platts-Mills T. Cockroach counts and house dust allergen concentrations after professional cockroach control and cleaning. **Annals of Allergy Asthma and Immunology** 91, 546-552, 2003 (NCER). McConnell, R, Berhane, FD, Gilliand, FD, Molitor, J, Thomas, D, Lurmann, F, Avol, E, Gauderman, WF and Peters, JM. Prospective study of air pollution and bronchitic symptoms in children with asthma. **American Journal of Respiratory and Critical Care Medicine** 168:790-797, 2003 (NCER).

McCurdy, T and Xue, J. Meta-analysis of physical activity index data for US children and adolescents. **Journal of Children's Health** 2: 297-319, 2004.

McDaniel, KL and Moser, VC. Differential profiles of cholinesterase inhibition and neurobehavioral effects in rats exposed to fensmiphos or profenophos. Neurotoxicology and **Teratology** 26:407-415, 2004.

McDonnell, WF, Abbey, DE, Nishino, N and Lebowitz, MD. Long-term ambient ozone concentration and the incidence of asthma in nonsmoking adults: the Ahsmog Study. **Environmental Research** 80:110-121, 1999.

McGuinness, BM, Buck, GM, Mendola, P, Sever, L and Vena, JE. Infecundity and consumption of PCB-contaminated sport fish. **Archives of Environmental Health** 56: 250-253, 2001.

Meacham, CA, White, LD, Barone, S Jr and Shafer, TJ. Ontogeny of voltage-sensitive calcium channel  $\alpha_{1A}$  and  $\alpha_{1E}$  subunit expression and synaptic function in rat central nervous system. **Developmental Brain Research** 142: 47-65, 2003

Meacham, CA, Freudenrich, TM., Anderson, WL, Sui, L, Lyons-Darden, T, Barone, S Jr, Gilbert, ME., Mundy, WR and Shafer TJ. Accumulation of methylmercury or polychlorinated biphenyls in in vitro models of rat neuronal tissue. **Toxicology and Applied Pharmacology** 205:177-187, 2005.

Meklin, T, Haugland, RA, Reponen, T, Varma, M, Lummus, Z, Bernstein, D, Wymer, LJ and Vesper, SJ. Quantitative PCR analysis of house dust can reveal abnormal mold conditions. **Journal of Environmental Monitoring** 6:615-620, 2004.

Melnyk, LJ, Berry, MR, Sheldon, LS, Freeman, NCG, Pellizzari, ED and Kinman, RN. Dietary exposure of children in lead-laden environments. **Journal of Exposure Analysis and Environmental Epidemiology** 10: 723-731, 2000.

Mendola, P, Selevan, S, Gutter, S and Rice, D. Environmental factors associated with a spectrum of neuropsychological deficits. **Mental Retardation and Developmental Disability Research Review** 8:188-197, 2002.

Mendola, P, Robinson, LK, Buck, GM, Druschel, CM, Fitzgerald, EF, Sever, LE and Vena, JE. Birth defects risk associated with maternal sport fish consumption: potential effect modification by sex of offspring. **Environmental Research** 97:133-140, 2004.

Merrick, J, Birnbaum, L, Kandel, I and Morad, M. Obesity and adolescence. A public health concern. **International Journal of Adolescent Medicine and Health** 16: 387-388, 2004.

Meyer, IH, Whyatt, RM, Perera, FP and Ford, JG. Risk for asthma in one-year-old infants residing in New York City high-risk neighborhoods. **Journal of Asthma** 40: 545 – 550, 2003 (NCER).

Miller, RL, Chew, G, Bell, CA, Biedermann, SA, Aggarwal, M, Kinney, PL, Tsai ,WY, Whyatt, RM, Perera, FP and Ford, JG. Prenatal exposure, maternal sensitization, and sensitization in utero to indoor allergens in an inner-city cohort. **American Journal of Respiratory and Critical Care Medicine** 164: 995 – 1001, 2001 (NCER).

Miller, RL, Garfinkel, R, Horton, M, Camann, D, Perera, FP, Whyatt, RM and Kinney PL. Polycyclic aromatic hydrocarbons, environmental tobacco smoke, and respiratory symptoms in an inner-city birth cohort. **Chest** 126:1071–1078, 2004 (NCER).

Millstein, J, Siegmund, KD, Conti, DV and Gauderman, WJ. Testing association and linkage using affected sib-parent study designs. **Genetic Epidemiology** 29: 225-233, 2005 (NCER).

Millstein, J, Conti, DW, Gilliland, FD and Gauderman, WJ. A testing framework for identifying susceptibility genes in the presence of epistasis. **American Journal of Human Genetics** 78: 15-27, 2006. (NCER).

Mirkes, PE and Little SA. Cytochrome c release from mitochondria of early postimplantation murine embryos exposed to 4-hydroperoxycyclophosphamide, heat shock, and staurosporine. **Toxicology and Applied Pharmacology** 162:197–206, 2000 (NCER).

Mirkes, PE, Wilson, KL and Cornel, LM. Teratogen-induced activation of ERK, JNK, and p38 AP kinases in early postimplantation murine embryos. **Teratology** 62:14–25, 2000 (NCER).

Mirkes, PE, Little, SA and Umpierre, CC. Co-localization of active caspase-3 and DNA fragmentation (TUNEL) in normal and hyperthermia-induced abnormal mouse development. **Teratology** 63:134–143, 2001 (NCER).

Moate, TF, Lu, C and Fenske, RA. Improved cleanup and determination of dialkyl phosphates in the urine of children exposed to organophosphorus insecticides. **Journal of Analytical Toxicology** 23:230–236, 1999 (NCER).

Moate, TF, Furia, M, Curl, C, Muniz, JF, Yu, J and Fenske, RA. Size exclusion chromatographic cleanup for GC/MS determination of organophosphorus pesticide residues in household and vehicle dust. **AOAC International** 85:36–43, 2002 (NCER).

Moline JM, Golden AL, Bar-Chama N, Smith E, Rauch ME, Chapin RE, Perreault SD, Schrader SM, Suk WA and Landrigan PJ. Exposure to hazardous substances and male reproductive health: a research framework. **Environmental Health Perspectives** 108:803-813, 2000 (NCER).

Moline J, Carrillo LL, Sanchez LT, Godbold J and Todd A. Lactation and lead body burden turnover: a pilot study in Mexico. **Journal of Occupational and Environmental Medicine** 42: 1070-1075. 2000 (NCER).

Monick, MM, Staber, JM and Hunninghake, GW. Respiratory syncytial virus infection results in activation of multiple protein kinase C isoforms leading to activation of mitogen-activated protein kinase. **Journal of Immunology** 166:2681-2687, 2000 (NCER).

Monn, C andKoren, H Bioaerosols in ambient air particulates: A review and research needs. **Reviews on Environmental Health** 14: 69-89, 1999.

Mooney LA, Madsen AM, Tang D, Orjuela MA, Tsai WY, Garduno ER and Perera FP. Antioxidant vitamin supplementation reduces benzo[a]pyrene-DNA adducts and potential cancer risk in female smokers. **Cancer Epidemiology Biomarkers and Prevention** 14:237-42, 2005 (NCER).

Moreland, JG, Fuhrman, RM, Wohlford-Lenane, CL, Quinn, TJ, Benda, E, Pruessner, JA and Schwartz, DA. TNF-alpha and IL-1 beta are not essential to the inflammatory response in LPS-induced airway disease. **American Journal of Physiology** 280:L173-L180, 2001 (NCER).

Morgan, DL, Chanda, SM. Price, HC, Fernando, R, Liu, J, Brambilia, E, O'Conner, R.W., Beliles, RP and Barone, S. Jr. Disposition of inhaled mercury vapor in pregnant rats: Maternal toxicity and effects on developmental outcomes. **Toxicological Sciences** 66: 261-273, 2002

Morgan, MK, Stout II, DM and Wilson, NK. Feasibility study of the potential for human exposure to pet-borne diazinon residues following lawn applications. **Bulletin of Environmental Contamination and Toxicology** 66:295-300, 2001.

Morgan, MK, Sheldon, LS, Croghan, CW, Jones, PA, Robertson, GL, Chuang, JC, Wilson ,NK and Lyu ,CW. Exposures of preschool children to chlorpyrifos and its degradation product 3,5,6-trichloro-2-pyridinol in their everyday environments. Journal of Exposure Analysis and Environmental Epidemiology 15: 297-309, 2005.

Morrison, J, Yang, C, Lin, K-T, Haugland, RA, Neely, AN and Vesper, SJ. Monitoring *Aspergillus* species by quantitative PCR during construction of a multi-story hospital building. **Journal of Hospital Infection** 57:85-87, 2004.

Mortimer, KM, Tager, IB, Dockery, DW, Neas, LM and Redline, S. The effect of ozone on inner-city children with asthma: identification of susceptible subgroups. **American Journal of Respiratory and Critical Care Medicine** 162:1838-1845, 2000.

Mortimer, KM, Neas, LM, Dockery, DW, Redline, S and Tager, IB. The effect of air pollution on innercity children with asthma. **European Respiratory Journal** 9:699-705, 2002.

Moser, VC. Comparison of aldicarb and methamidophos neurotoxicity at different ages in the rat: Behavioral and biochemical parameters. **Toxicology and Applied Pharmacology** 157:94-106, 1999.

Moser, VC. Dose-response and time-course of neurobehavioral changes following oral

chlorpyrifos in rats of different ages. Neurotoxicology and Teratology 22:713-723, 2000.

Moser, VC. Validity and utility of geotaxis. **Neurotoxicology and Teratology** 27: 539-540, 2005.

Moser, VC, Barone, S, Phillips, P, McDaniel, K and Ehman, K. Evaluation of developmental neurotoxicity of organotins via drinking water in rats: Monomethyl tin. **NeuroToxicology**, in press, 2006.

Moser, VC, Shafer, TJ, Ward, TR, Meacham, CA, Harris, MW and Chapin, RE. Neurotoxicological outcomes of perinatal heptachlor exposure in the rat. **Toxicological Sciences** 60:315-326, 2001.

Moser ,VC, Barone S, Jr., Smialowicz, RJ, Harris, MW, Davis, BJ, Overstreet, D, Mauney, M and Chapin RE. The effects of perinatal tebuconazole exposure on adult neurological, immunological, and reproductive function in rats. **Toxicological Sciences** 62:339-352, 2001.

Mosquin, P, Whitmore, R, Suerken, C and Quackenboss, J. Population coverage and nonresponse bias in a large-scale human exposure study. **Journal of Exposure Analysis and Environmental Epidemiology** 15: 431-438, 2005.

Moya, J, Bearer, CF and Etzel, R. Children's behavior and physiology and how it affects exposure to environmental contaminants. **Pediatrics** 113:996–1006, 2004 (NCER).

Moysich, KB, Ambrosone, CB, Mendola, P, Kostyniak, PJ, Greizerstein, HB, Vena, JE, Menezes, RJ, Swede, H, Shields, PG and Freudenheim, JL. Exposures associated with serum organochlorine levels among postmenopausal women from western New York State. **American Journal of Industrial Medicine** 41:102-110, 2002.

Mukerjee ,S, Norris, GA, Smith, LA, Noble, CA, Neas, LM, Özkaynak, AH and Gonzales M. Receptor model comparisons and wind direction analyses of volatile organic compounds and submicrometer particles in an Arid, Binational, Urban Airshed. **Environmental Science and Technology** 15:2317-2327, 2004

Mukerjee, S, Smith, LA, Norris, GA, Morandi, MT, Gonzales, M, Noble, CA, Neas, LM and Özkaynak, HA. Field method comparison between passive air samplers and continuous monitors for volatile organic compounds and NO2 in El Paso, Texas, USA. Journal of the Air and Waste Management Association 54:307-319, 2004.

Mundy, WR, and Freudenrich, TM. Apoptosis of cerebellar granule cells induced by organotin compounds found in drinking water: Involvement of MAP kinases. **NeuroToxicology** 27:71-81. 2006.

Mundy, WR, Parran, DK and Barone, S. Jr. Gestational exposure to methylmercury alters the developmental pattern of neurotrophin- and neurotransmitter-induced phosphoinositide (PI) hydrolysis. **Neurotoxicology Research** 1:271-283, 2000.

Nagaraja, J, Menkedick, J, Phelan, KJ, Lanphear, BP, Ashley, PJ and Zhang, J. Deaths from residential injuries in United States children and adolescents, 1985 to 1997. **Pediatrics** 116: 454-461, 2005.

Namgung, U and Xia, Z. Arsenic induces apoptosis in rat cerebellar neurons via activation of JNK3 and p38 MAP kinases. **Toxicology and Applied Pharmacology** 174: 130 – 138, 2001 (NCER).

Neas, LM.. Fine particulate matter and cardiovascular disease. **Fuel Processing Technology** 66:55-67, 2000.

Neas, LM, Dockery, DW, Koutrakis, P and Speizer, FE. Fine particles and peak flow in children: acidity versus mass. **Epidemiology** 10:550-553, 1999.

Neas, LM, Schwartz, J and Dockery, DW. A case-crossover analysis of air pollution and mortality in Philadelphia. **Environmental Health Perspectives** 107:629-631, 1999.

Needham, LL, Sexton, K. Assessing children's exposure to hazardous environmental chemicals: An overview of selected research challenges and complexities. Journal of Exposure Analysis and Environmental Epidemiology 10: 611 – 629, 2000 (NCER).

Needham LL, Özkaynak H, Whyatt RM, Barr DB, Wang RY, Naeher L, Akland G, Bahadori T, Bradman A, Fortmann R, Liu L-JS, Morandi M, O'Rourke MK, Thomas K, Quackenboss J, Ryan PB, and Zartarian V. Mini-Monograph: Exposure assessment in the National Children's Study – introduction. **Environmental Health Perspectives** 113: 1076-1082, 2005.

Neely, AN, Gallardo, V, Barth, E, Haugland, RA, Warden, G and Vesper, SJ. Rapid monitoring by QPCR for pathogenic Aspergillus during carpet removal from a hospital. **Infection Control and Hospital Epidemiology** 25:350-352, 2004.

Newburg, DS, Ruiz-Palacios, GM, Altaye, M, Chaturvedi,P, Meinzen-Derr, J, Guerrero Mde, L and Morrow, AL. Innate protection conferred by fucosylated oligosaccharides of human milk against diarrhea in breastfed infants. **Glycobiology** 14: 253 – 263, 2004 (NCER).

Nishioika, MG, Burkholder, HM and Brinkman, MC Distribution of 2,4-dichlorophenoxyacetic acid in floor dust throughout homes following homeowner and commercial lawn applications: Quantitative effects of children, pets and shoes. **Environmental Science and Technology** 33: 1359-1365, 1999.

Noble, C A, Mukerjee, S, Gonzales, M, Rodes, C E, Lawless, PA, Natarajan, S, Myers, EA, Norris, GA., Smith, LA, Özkaynak, H and Neas, LM. Continuous measurement of fine and ultrafine particulate matter, criteria pollutants and meteorological conditions in urban El Paso, Texas. **Atmos Environment** 37:827-840, 2003.

Noland, JS, Singer, LT, Arendt, RE, Minnes, S, Short, EJ and Bearer, CF. Executive functioning in preschool-age children prenatally exposed to alcohol, cocaine, and marijuana. Alcoholism: Clinical and Experimental Research 27:647-656, 2003 (NCER).

O'Hara, MF, Nibbio, BJ, Craig, RC, Nemeth, KR, Charlap, JH and Knudsen, TB. Mitochondrial benzodiazepine receptors regulate oxygen homeostasis in the early mouse embryo. **Reproductive Toxicology** 17:365-375, 2003 (NCER).

Ohtsuka, Y, Clarke, RW, Mitzner, W, Brunson, K, Jakab, GJ and Kleeberger, SR. Interstrain variation in murine susceptibility to inhaled acid-coated particles. **American Journal of Physiology** 278:L469-L476, 2000 (NCER).

Ohtsuka, Y, Brunson, KJ, Jedlicka, AE, Mitzner, W, Clarke, RW, Zhang, LY, Eleff, SM and Kleeberger, SR. Genetic linkage analysis of susceptibility to particle exposure in mice. **American Journal of Respiratory Cell and Molecular Biology** 22:574-581, 2000 (NCER).

Olin, SS and Sonawane, BR. Workshop to develop a framework for assessing risks to children from exposure to environmental agents. **Environmental Health Perspectives** 111: 1524-1526, 2003.

Olivier, K and Pope, C. Comparative effects of paraoxon, chlorpyrifos oxon and muscarinic agonists on high affinity choline uptake in rat cortical or striatal synaptosomes. **Toxicological Sciences** 48:100, 1999 (NCER).

Olivier, K and Pope, CN. Age-related inhibition of forskolin-stimulated cAMP formation by chlorpyrifos oxon in rat cortical slices. **Toxicological Sciences** 54:340, 2000 (NCER).

Olivier, K and Pope, CN. Age-related effects of chlorpyrifos on high affinity choline uptake in rat brain. **Toxicological Sciences** 60:241, 2001 (NCER).

Olivier, K, Liu, J and Pope, CN. Inhibition of forskolin-stimulated cAMP formation in vitro by paraoxon and chlorpyrifos oxon in cortical slices from neonatal, juvenile and adult rats. **Journal of Biochemical and Molecular Toxicology** 15:263-269, 2001 (NCER).

Olson, DA, Norris, GA, Landis, MS and Vette, AF. Chemical characterization of ambient particulate matter near the World Trade Center: elemental carbon, organic carbon and mass reconstruction. **Environmental Science and Technology** 38: 4465-4473, 2004.

Ogun, S, Gogal, R, Adeshina, F, Choudhury, H and H. Misra. Pesticide mixtures potentiate the toxicity in murine thymocytes. **Toxicology** 196:181–195, 2004.

Okelo S, Wu AW, Krishnan JA, Rand CS, Skinner EA and Diette GB. Emotional quality of life and outcomes in adolescents with asthma. **Journal of Pediatrics** 145:523-9, 2004 (NCER).

Onalaja A and Claudio L: Genetic influences in lead poisoning. **Environmental Health Perspectives** 108:23-28, 2000 (NCER).

O'Rourke, MK, Lizardi, PS, Rogan, SP, Freeman, NC, Aguirre, A and Saint, CG. Pesticide exposure and creatinine variation among young children. **Journal of Exposure Analysis and Environmental Epidemiology** 10:672–681, 2000 (NCER).

Oshiro, W, Krantz, Q and Bushnell, P. A search for residual behavioral effects of trichloroethylene (TCE) in rats exposed as young adults. **Neurotoxicology and Teratology** 26: 239-251, 2004.

Otto, DA, Wade, T, Mumford, J, Geller, A, Hudnell, K, Li, Y, Xia, Y, Wu, K, He, L, Ning, Z, Zhao, B, Lin, H and Kwok, R. Neurotoxic effects of chronic exposure to arsenic via drinking water in inner mongolia: II. Vibrotactile and visual function. **Water and Health,** in press, 2006.

Ou, YC, White, CC, Krejsa, CM, Ponce, RA, Kavanagh, TJ and Faustman, EM. The role of intracellular glutathione in methylmercury-induced toxicity in embryonic neuronal cells. **Neurotoxicology** 20:793-804, 1999 (NCER).

Ou, YC, Thompson, SA, Ponce, RA, Shroeder, J, Kavanagh, TJ and Faustman, EM. Induction of the cell cycle regulatory gene, p21 (Waf1, Cip1) following methylmercury exposure in vitro and in vivo. **Toxicology and Applied Pharmacology** 157:203-212, 1999 (NCER).

Ozer, EA, Pezzulo, A, Shih, DM, Chun, C, Furlong, C, Lusis, AJ, Greenberg, EP and Zabner, J. Human and murine paraoxonase 1 are host modulators of Pseudomonas aeruginosa quorum-sensing. **FEMS Microbiological Letters** 253: 29-37, 2005 (NCER).

Ozkaynak, H, Whyatt, RM, Needham, LL, Akland, G and Quackenboss, J. Exposure assessment implications for the design and implementation of the National Children's Study. **Environmental Health Perspectives** 113: 1108-1115, 2005.

Padilla, S, Buzzard, J and Moser, VC. Comparison of the role of esterases in the differential agerelated sensitivity to chlorpyrifos and methamidophos. **NeuroToxicology** 21:49-56, 2000.

Padilla, S, Sung, H-J and Moser, V. Further assessment of an *in vitro* screen that may help identify organophosphorus pesticides that are more acutely toxic to the young. **Journal of Toxicology and Environmental Health** 67:1477-1489, 2004.

Paige, RC, Brody, SL, Fanucchi, MV and Plopper, CG. Failure of ciliogenesis in HFH-4 transcription factor deficient mice is correlated with the absence of ezrin. **American Journal of Respiratory and Critical Care Medicine** 161:A561, 2000 (NCER).

Parran, DK, Mundy, WR and Barone, S. Jr. Differential effects of inorganic and organic mercury on differentiation and cytotoxicity in PC12 cells. **Toxicological Sciences** 59: 278-290, 2001.

Parran, DK, Barone, S Jr and Mundy, WR. Methylmercury inhibits NGF-induced TrkA autophosphorylation and neurite outgrowth in PC12 cells. **Developmental Brain Research** 141:71-81, 2003.

Parran, DK, Barone, S Jr and Mundy, WR Role of MAP kinase and Protein Kinase C in Methyl mercury inhibition of neurite outgrowth in PC12 cells. **Developmental Brain Research** 149:53-61, 2004.

Peden, DB. Pollutants and asthma: Role of air toxics. **Environmental Health Perspectives** 110 Suppl 4: 565-568, 2002.

Peden, DB. Influences on the development of allergy and asthma. **Toxicology** 181-182: 323-328, 2002.

Peden, DB. Does air pollutant cause asthma exacerbations in children? Annals of Allergy Asthma and Immunology 90: 1-2, 2003.

Peden, DB. Air pollutants, exercise and risk of developing asthma in children. **Clinical Journal of Sport Medicine** 13: 62-63, 2003.

Peden, DB. The epidemiology and genetics of asthma risk associated with air pollution. **Journal of Allergy and Clinical Immunology** 115: 213-219, 2005.

Peiffer, RL, McCary, B, Bee, W, Wegener, A, Geller, AM and Boyes, WK. Contemporary methods in ocular toxicology. **Toxicology Methods** 10:1-23, 2000.

Pellizzari, ED, Smith, DJ, Clayton, CA and Quackenboss, JJ. Assessment of data quality for the NHEXAS - Part II: Minnesota children's pesticide exposure study (MNCPES). Journal of Exposure Analysis and Environmental Epidemiology 13:465–479, 2003.

Peng, RD, Dominici, R, Pastor-Barriuso, R, Zeger, SL and Samet, JM. Seasonal analyses of air pollution and mortability in 100 US cities. **Americam Journal of Epidemiology** 161: 585-594, 2005.

Perera, FP, Jedrychowski, W, Rauh, V and Whyatt, RM. Molecular epidemiologic research on the effects of environmental pollutants on the fetus. **Environmental Health Perspectives** 107: 451–460, 1999 (NCER).

Perera, FP, Illman, SM, Kinney, PL, Whyatt, RM, Kelvin, EA, Shepard, P, Evans, D, Fullilove, M, Ford, JG, Miller, RL, Meyer, I and Rauh, V. The challenge of preventing environmentally related disease in young children: Community-based research in New York City. **Environmental Health Perspectives** 110:197–204, 2002 (NCER).

Perera, FP, Rauh, V, Tsai, WY, Kinney, PL, Camann, DE, Barr, DB, Garfinkel, R, Tu,Y-H, Diaz, D, Dietrich, J and Whyatt, RM. Effects of transplacental exposure to environmental pollutants on birth outcomes in a multi-ethnic population. **Environmental Health Perspectives** 111:201–205, 2003 (NCER).

Perera, FP, Rauh, V, Whyatt, RM, Tsai, WY, Bernert, JT, Tu, YH, Andrews, H, Ramirez, J, Qu,

L and Tang, D. Molecular evidence of an interaction between prenatal environmental exposures and birth outcomes in a multiethnic population. **Environmental Health Perspectives** 112:626 – 630, 2004 (NCER).

Perera FP, Tang D, Tu YH, Cruz, LA, Borjas M, Bernert T and Whyatt RM. Biomarkers in maternal and newborn blood indicate heightened fetal susceptibility to procarcinogenic DNA damage. **Environmental Health Perspectives** 112:1133-1136, 2004 (NCER).

Perera FP, Tang D, Rauh VA, Lester K, Tsai WY, Tu YH, Weiss L, Hoepner L, King J, Del Priore G and Lederman SA. Relationship between polycyclic aromatic hydrocarbon-DNA adducts and proximity to the World Trade Center and effects on fetal growth. **Environmental Health Perspectives**, 113: 1062-1067, 2005 (NCER).

Perera FP, Tang D, Whyatt RM, Lederman SA and Jedrychowski W. DNA damage from polycyclic aromatic hydrocarbons measured by benzo[*a*]pyrene-DNA adducts in mothers and newborns from Northern Manhattan, the World Trade Center area, Poland, and China. **Cancer Epidemiology Biomarkers and Prevention**, in press, 2005 (NCER).

Perlin, S, Sexton, K and Wong, D. An examination of race and poverty for populations living near industrial sources of air pollution. **Journal of Exposure Analysis and Environmental Epidemiology** 9:29-48, 1999.

Perlin, S, Sexton, K and Wong, D. Residential proximity to industrial sources of air pollution: interrelationships among race, poverty and age. **Journal of Air and Waste Management** 51:406-421, 2001.

Perreault, SD, Rubes, J, Robbins, WA, Evenson, DP and Selevan SG. Evaluation of aneuploidy and DNA damage in human spermatozoa: applications in field studies. Andrologia 32:247-254, 2000.

Perry TT, Matsui EC, Merriman B, Duong T and Eggleston PA. The prevalent of rat allergen in inner-city homes and its relationship to sensitization and asthma morbidity. **Journal of Allergy and Clinical Immunology** 112: 346-352, 2003 (NCER).

Peters, J, Avol, E, Gauderman, WJ, Linn, WS, Navidi, W, London, SJ, Margolis, H, Rappaport, E, Vora, H, Gong, H and Thomas, DC. A study of twelve Southern California communities with differing levels and types of air pollution. II. Effects on pulmonary function. **American Journal of Respiratory and Critical Care Medicine** 159:768-775, 1999 (NCER).

Peters, U, Sinha, R, Bell, DA, Rothman, N, Grant, DJ, Watson, MA, Kulldorff, M, Brooks, LR, Warren, SH and DeMarini, D. Urinary mutagenesis and fried red meat intake: influence of cooking temperature, phenotype and genotype of metabolizing enzymes in a controlled feeding study. **Environmental and Molecular Mutagenesis** 43: 53-74, 2004.

Phelan KJ, Khoury J, Kalkwarf H, Lanphear B. Residential injuries in US children and adolescents. **Public Health Reports** 120:63-70, 2005 (NCER).

Phipatanakul W, Eggleston PA, Wright EC and Wood RA. The National Cooperative Inner City Asthma Study. Mouse allergen I: The prevalence of mouse allergen in inner- city homes. **Journal of Allergy and Clinical Immunology** 106:1070-1074, 2000 (NCER).

Phipatanakul W, Eggleston PA, Wright EC and Wood RA. The National Coop. Inner City Asthma Study. Mouse allergen II: The relationship of mouse allergen exposure to mouse sensitization and asthma morbidity in inner- city children with asthma. **Journal of Allergy and Clinical Immunology** 106:1075-1080, 2000 (NCER).

Phipatanakul W, Eggleston PA, Conover-Walker MK, Kesavanathan J, Sweitzer D and Wood RA. A randomized, double -blind, placebo controlled trial of the effect of Zafirlukast on upper and lower respiratory response to cat challenge. **Journal of Allergy and Clinical Immunology** 105:704-710, 2000 (NCER).

Pleil, J.D, Vette, AF and Rappaport, SM. Assaying particle-bound polycyclic aromatic hydrocarbons (PAH) from archived PM2.5 filters. **Journal of Chromatography A** 1033:9-17, 2004.

Pleil, JD, Vette, AF, Johnson, BA and Rappaport, SM. Air levels of carcinogenic polycyclic aromatic hydrocarbons after the World Trade Center disaster. **Proceedings of the National Academy of Sciences USA** 101, 11685-11688, 2004.

Plitnick, LM, Loveless, SE, Ladics, GS, Holsapple, MP, Smialowicz, RJ, Woolhiser, MR, Anderson, PK, Smith, C and Selegrade, MJ. Cytokine mRNA profiles for isocyanates with known and unknown potential to induce respiratory sensitization. **Toxicology** 28: 487-499, 2005.

Plopper, CG and Fanucchi, MV. Do urban environmental pollutants exacerbate childhood lung diseases? **Environmental Health Perspectives** 108:A252-A253, 2000 (NCER).

Plopper, CG, Buckpitt, A, Evans, M, Van, W, Fanucchi, M, Smiley-Jewell, S, Lakritz, J, West, J, Lawson, G, Paige, R, Miller, L and Hyde, D. Factors modulating the epithelial response to toxicants in tracheobronchial airways. **Toxicology** 160:173-180, 2001 (NCER).

Poet, TS, Wu, H, Kousba, AA and Timchalk, C. In vitro rat hepatic and enterocyte metabolism of the organophosphate pesticides chlorpyrifos and diazinon. **Toxicological Sciences** 72:193-200, 2003 (NCER).

Polifka, J and Faustman, E. Developmental toxicity: web resources for evaluating risk in humans. **Toxicology** 173: 35 – 65, 2002 (NCER).

Pope, CA, Burnett, RT, Thurston, GD, Thun, MJ, Calle, EE, Krewski, D and Godleski, JJ. Cardiovascular mortality and long-term exposure to particulate air pollution: epidemiological evidence of general pathophysiological pathways of disease. **Circulation** 109: 71-77, 2004.

Pourazar, J, Mudway, IS, Samet, JM, Helleday, R, Blomberg, A, Wilson, SJ, Frew, AJ, Kelly, FJ and Sandstrom, T. Diesel exhaust activites redox-sensitive transcription factors and kinases in

human airways. **American Journal of Physiology-Lung Cellular and Molecuar Physiology** 289: L724-730, 2005.

Powers, BE, Lin, TM, Vanka, A, Peterson, RE, Juraska, JM and Schantz, S. Tetrachlorodibenzop-dioxin exposure alters radial arm maze performance and hippocampal morphology in female AhR mice. **Genes Brain and Behavior** 4: 51-59, 2005 (NCER).

Powers, BE, Widholm, JJ, Laskey, RE and Schantz, S. Auditory deficits in rats exposed to an environmental PCB mixture during development. **Toxicological Sciences** 89: 415-422, 2006.

Purkerson-Parker, S, McDaniel, KL and Moser, VC. Dopamine transporter binding in the rat striatum is increased by gestational, perinatal and adolescent exposure to heptachlor. **Toxicological Sciences** 64: 216-223, 2001.

Qiao, D, Seidler, F, Slotkin, A and Padilla, S. Developmental neurotoxicity of chlorpyrifos: what is the vulnerable period? **Environmental Health Perspectives** 110:1097-10103, 2002.

Quackenboss, JJ, Pellizzari, ED, Shubat P, Whitmore, RW, Adgate, JL, Thomas, KW, Freeman, NC, Stroebel, C, Lioy, PJ, Clayton, AC and Sexton, K. Design strategy for assessing multipathway exposure for children: the Minnesota's Children's Pesticide Exposure Study (MNCPES). Journal of Exposure Analysis and Environmental Epidemiology 10:145-158, 2000.

Que, LG, Liu, L, Yan, Y, Whitehead, GS, Gavett, SH, Schwartz, D and Stamler, JS. Protection from experimental asthma by an endogenous bronchodilator. **Science** 308: 1618-1621, 2005.

Quinn, TJ, Taylor, S, Wohlford-Lenane, CL and Schwartz, DA. IL-10 reduces grain dustinduced airway inflammation and airway hyperreactivity. **Journal of Applied Physiology** 88:173-179, 2000 (NCER).

Ramachandran, G, Adgate, JL, Hill, N, Sexton, K, Pratt, GC and Bock, D. Comparison of short-term variations 15-minute averages in outdoor and indoor PM25 oncentrations. **Journal of the Air Waste Management Association** 50: 1157 – 1166, 2000 (NCER).

Ramaprasad J, Tsai M, Elgethun K, Hebert V, Felsot A, Yost M and Fenske R. The Washington aerial spray drift study: Assessment of off-target organophosphorus insecticide atmospheric movement by plant surface volatilization. **Atmospheric Environment** 38: 5703-5713, 2004.

Rand C, Zhang LY, Kleeberger SR, Butz A, Kolodner K, Huss K, Eggleston P and Malveaux F. Emergency department visits by urban African American children with asthma. **Journal of Allergy and Clinical Immunology** 105:83-90, 2000 (NCER).

Rauh, V, Andrews, H and Garfinkel, R. The contribution of maternal age to racial disparities in birthweight: a multi-level perspective. **American Journal of Public Health** 91: 1815 – 1824, 2001 (NCER).

Rauh,V, Chew, G and Garfinkel, R. Deteriorated housing contributes to high cockroach allergen levels in inner-city households. **Environmental Health Perspectives** 110: 323 – 327, 2002 (NCER).

Rauh, VA, Lamb, Parker F, Andrews, H and Garfinkel, R. Community-level effects on school performance of inner-city Head Start children. **Journal of Community Psychology** 31:1–24, 2003 (NCER).

Rauh, VA, Whyatt, RM, Garfinkel, R, Andrews, H, Hoepner, L, Reyes, A, Diaz, D, Camann, D and Perera, FP. Developmental effects of exposure to environmental tobacco smoke and material hardship among inner-city children. **Neurotoxicology and Teratology** 26:373–385, 2004 (NCER).

Rayner, JL, Enoch, RR and Fenton, SE. Adverse effects of prenatal exposure to atrazine during a critical period of mammary gland growth. **Toxicological Sciences** 87: 255-266, 2005.

Reed, KJ, Jimenez, M, Freeman, NCG and Lioy, PJ. Quantification of children's hand and mouthing activities through a videotaping methodology. Journal of Exposure and Analytical Environmental Epidemiology 9: 513-520, 1999.

Regan, MM and Catalano, PJ. Bivariate dose-response modeling and risk estimation in developmental toxicology. **Journal of Agricultural, Biological, and Environmental Statistics** 4:217-237, 1999 (NCER).

Regan, MM and Catalano, PJ. Likelihood models for clustered binary and continuous outcomes: application to developmental toxicology. **Biometrics** 55:760-768, 1999 (NCER).

Rice, DC and Barone, S Jr. Critical periods of vulnerability for the developing nervous system: Evidence from humans and animal models. **Environmental Health Perspectives** 108(Suppl 3): 511-533, 2000.

Richardson JL, Milam JE, Galvan J, Jones C and McConnell R. Knowledge of skin test results among parents of asthmatic children. **Journal of Asthma** 41: 199-204, 2004 (NCER).

Richter, RJ and Furlong, CE. Determination of paraoxonase (PON1) status requires more than genotyping. **Pharmacogenetics** 9: 745 – 753, 1999 (NCER).

Riediker, M and Koren, H. The importance of environmental exposures to physical, mental and social well-being. **International Journal of Hygiene and Environmental Health** 207:193-201, 2004.

Riediker M, Cascio WE, Griggs TR, Herbst MC, Bromberg PA, Neas L, Williams, RW and Devlin RB. Particulate matter exposure in cars is associated with cardiovascular effects in healthy young men. **American Journal of Respiratory and Critical Care Medicine** 169:934-40, 2004.

Rigas, ML, Okino, MS and Quackenboss, JJ. Use of a pharmakinetic model to assess chlorpyrifos exposure and dose in children, based on urinary biomarker measurements.

Toxicological Sciences 61: 374-381, 2001.

Riley, WJ, McKone, TE and Hubal-Cohen, E. Estimating contaminant dose for intermittent dermal contact: Model development, testing and application. **Risk Analysis** 24:73-85, 2004 (NCER).

Ris, MD. Causal inference in lead research Introduction to the Special Section on the neurobehavioral effects of environmental lead. **Child Neuropsychology** 9:1-9, 2003 (NCER).

Ris, MD, Dietrich, KN, Succop, PA, Berger, OG and Bornschein, RL. Early exposure to lead and neuropsychological outcome in adolescence. **Journal of the International Neuropsychology Society** 10:261–270, 2004 (NCER).

Robbins, WA, Rubes, J, Selevan ,SG and Perreault. Air pollution and sperm aneuploidy in healthy young men. **Environmental Epidemiology and Toxicology** 1:125–131, 1999.

Robertson, GL, Lebowitz, MD, O'Rourke, MK, Gordon, S and Moschandreas, D. National Human Exposure Assessment Survey (NHEXAS) study in Arizonia-introduction and preliminary results. **Journal of Exposure Analysis and Environmental Epidemiology** 9:427-434, 1999.

Rodes, CE, Lawless, PA, Evans, G, Sheldon, LS, Williams, RW, Vette, AF Creason, JP and Walsh, D. The relationships between personal PM exposures for elderly populations and indoor and outdoor concentrations for three retirement center scenarios. **Journal of Exposure Analysis and Environmental Epidemiology** 11:103-115, 2001.

Roe, JD, Haugland, RA, Vesper, SJ and Wymer, L. Quantification of Stachybotrys chartarum Conidia in indoor dust using real time, fluorescent probe-based detection of PCR products. **Journal of Exposure Analysis and Environmental Epidemiology** 11:1-9, 2001.

Roegge, CS, Widholm, JJ, Engeseth, NJ, Wang, X, Brosch, KO, Seegal, RF and Schantz, S. Delayed spatial alteration impairments in adult rats following dietary n-6 deficiency during development. **Neurotoxicology and Teratology** 27: 485- 495, 2005 (NCER).

Rogers, EH, Hunter, ES, Rosen, MB, Rogers, JM, Lau, C, Hartig, PC, Francis, BM and Chernoff, N. Lack of evidence for intergenerational reproductive effects due to prenatal and postnatal undernutrition in the female CD-1 mouse. **Reproductive Toxicology** 17: 519-525, 2003.

Rogers, EH, Hunger, ES, Moser, V, Phillips, PM, Herkovits, J, Munoz, L, Hall, L and Chernoff, N. Potential developmental toxicity of anatoxin-a, a cyanobacterial toxin. **Journal of Applied Toxicology** 25: 527-534, 2005.

Rogers, JM, Setzer, RW, Branch, S and Chernoff, N. Chemically-induced supernumerary lumbar ribs in CD-1 mice: size distrubition and dose response. **Birth Defects Research B Developmental and Reproductive Toxicology** 71: 16-25, 2004.

Rogers, JM, Chernoff, N, Keen, CL and Daston, GP. Evaluation and interpretation of maternal toxicity in Segment II studies: Issues, some answers and data needs. **Toxicology and Applied Pharmacology** 207: 367-374, 2005.

Rom, WN and Samet, JM. Small particles with big effects. American Journal of Repiratory and Critical Care Medicine 173: 365-366, 2006.

Rosner, D, Markowitz, G and Lanphear, BP. J. Lockhart Gibson and the discovery of the impact of lead pigments on children's health: A review of a century of knowledge. **Public Health Reports** 120:296-300, 2005 (NCER).

Rothenberg, SJ, Schnaas, L, Salgado-Valladares, MD, Casanueva, E, Geller, AM, Hudnell, HK and Fox, DA. Increased ERG A- and B-wave amplitude in 7-10 year old children resulting from prenatal lead. **Investigative Ophthalmology and Visual Science** 43: 2036-2044, 2002.

Royster, MO, Lobdell, DT, Mendola, R, Perreault, SD, Selevan, SG, Rothmann, SA and Robbins WA. Evaluation of a container for collections and shipment of semen with potential uses in population-based, clinical, and occupational settings. **Journal of Andrology** 21:478-484, 2000.

Rozek, LS, Hatsukami, TS, Richter, RJ, Ranchalis, J, Nakayama, K, McKinstry, LA, Gortner, DA, Boyko, E, Schellenberg, GD, Furlong, C and Jarvik, GP. The correlation of paraoxonase (PON1) activity with lipid and lipoprotein levels differs with vascular disease status. **Journal of Lipid Research** 46:1888-1895, 2005 (NCER).

Rubin HR, Pronovost P and Diette GB. From a process of care to a measure: The development and testing of a quality indicator. **International Journal of Quality in Health Care** 13: 489-496, 2001 (NCER).

Rubin HR, Pronovost P and Diette GB. The advantages and disadvantages of process-based measures of health care quality. **International Journal of Quality in Health Care** 13: 469-474, 2001 (NCER).

Ryan, LK, Neldon, DL, Bishop, L, Gilmour, MI, Daniels, MJ Sailstad, DM and Selgrade, MJK. Exposure to ultraviolet radiation enhances mortality and pathology associated with influenza virus infection in mice. **Photochemistry and Photobiology** 72:497-507, 2000.

Sabbioni, G, Jones, CR, Sepai, O, Hirvonen, A, Norppa, H, Jarventaus, H, Glatt, H, Pomplun, D, Yan, H, Brooks, LR, Warren, SH, DeMarini, DM and Liu, YY. Biomarkers of exposure, effect, and susceptibility in workers exposed to nitrotoluenes. **Cancer Epidemiology Biomarkers and Prevention** 15: 559-566, 2006.

Sagiv, SK, Mendola, P, Loomis, D, Herring, AH, Neas, LM, Savitz, DA and Poole, C. A timeseries analysis of air pollution and preterm birth in Pennsylvania, 1997-2001. **Environmental Health Perspectives** 113: 602-606, 2005. Salam, MT, Margolis, HG, McConnell, R, McGregor, JA, Avol, EL and Gilliland, FD. Mode of delivery is associated with asthma and allergy occurrences in children. **Annuals of Epidemiology**, in press, 2005.

Salam, MT, Millstein, J, Li, YF, Lurmann, FW, Margolis, HG and Gilliland, FD. Birth outcomes and prenatal exposure to ozone, carbon monoxide and particulate matter: results from the Children's Study. **Environmental Health Persepctives** 113: 1638-1644, 2005 (NCER).

Salomons, GS, van Dooren, SJ, Verhoeven ,NM, Marsden, D, Schwartz, C, Cecil, KM, DeGrauw, TJ and Jakobs C. X-linked creatine transporter defect: an overview. **Journal of Inherited Metabolic Disease** 26:309-318, 2003 (NCER).

Samet, JM. Smoking kills: experimental from the Lung Health Study. **Annuals of Internal Medicine** 142: 299-301, 2005.

Samet, JM. SAPALDIA 2: the cohort continues. Soz Praventivmed 50:195-196, 2005.

Samet, JM. The perspective of the National Research Council's Committee on Research Priorities for Airborne Particulate Matter. **Journal of Toxicology and Environmental Health A.** 68:1063-1067, 2005.

Samet, JM. Inhaled corticosteroids and chronic obstructive pulmonary disease: new and improved evidence? **American Journal of Respiratory and Critical Care Medicine** 15: 407-408, 2005.

Samet, JM, DeMarini, DM and Malling, HV. Biomedicine: Do airborne particles include heritable mutations? **Science** 304: 971-972, 2004.

Sammel, MD, Lin, LM and Ryan, LM. Multivariate linear mixed models for multiple outcomes. **Statistics in Medicine** 18:2479-2492, 1999 (NCER).

Samsam, TE, Gadrinab, LG and Bushnell, PJ. Toxicological evaluation of the staircase test for assessing fine motor movements. **Neurotoxicology and Teratology** 26: 113-120, 2004.

Samsam, TE, Hunter, DL and Bushnell, PJ. Effects of chronic dietary and repeated acute exposure to chlorpyrifos on learning and sustained attention in rats. **Toxicological Sciences** 87: 460-468, 2005.

Sandel, M, Phelan, KJ, Wright, R, Hynes, HP and Lanphear, BP. The effects of housing interventions on child health. **Pediatrics Annals** 33:474–481, 2004 (NCER).

Sapkota A, Symons JM, Kleissi J, Wang L, Parlange MB, Ondov J, Breysse PN, Diette GB, Eggleston PA and Buckley TJ. Impact of the 2002 Canadian forest fired on particulate matter air quality in Baltimore city. **Environmental Science and Technology** 39:24-32, 2005 (NCER).

Scarano, WR, Messias, AG, Oliva, SU, Klinefelter, GR and Kempinas, WG. Sexual behaviour, sperm quantity and quality after short-term streptozotocin-induced hyperglycaemia in rats.

## International Journal of Andrology, in press, 2006.

Sarcinelli, PN, Pereira, AC, Mesquita, SA, Oliveira-Silva, JJ, Meyer, A, Menezes, MA, Alves, SR, Mattos, RC, Moreira, JC and Wolff, M. Dietary and reproductive determinants of plasma organochlorine levels in pregnant women in Rio de Janeiro. **Environmental Research** 91:143-150, 2003 (NCER).

Savitz, DA, Ananth, CV, Berkowitz, GS and Lapinski, R. Concordance among measures of pregnancy outcome based on fetal size and duration of gestation. **American Journal of Epidemiology** 151:627-633, 2000 (NCER).

Schapiro, M, Cecil, KM, Doescher, J, Kiefer, AM and Jones, BV. MR imaging and spectroscopy in juvenile Huntington Disease. **Pediatric Radiology** 34:640–643, 2004 (NCER).

Schmithorst, V and Holland, S. The effect of musical training on music processing: a functional magnetic resonance imaging study in humans. **Neuroscience Letters** 348:65-68, 2003 (NCER).

Schreiber, JS, Hudnell, HK, Geller, AM, House, DE, Aldous, KM, Force, ME, Langutth, KW, Prohonic, EJ and Parker, JC. Apartment residents' and day care workers' exposures to tetrachloroethylene (perc) and deficits in visual contrast sensitivity. **Environmental Health Perspectives** 110:655-664, 2002.

Schreinemachers, DM. Mortality from ischemic heart disease and diabetes mellitus (Type 2) in four US wheat-producting states. A hypothesis-generating study. **Environmental Health Perspectives** 114: 186-193, 2006.

Schwartz, DA. The etiology and pathogenesis of airway disease in children and adults from rural communities. **Environmental Health Perspectives** 107:393-401, 1999.

Schwartz, DA, Wohlford-Lenane, CL, Quinn, TJ and Krieg, AM. Bacterial DNA or oligonucleotides containing unmethylated CpG motifs can minimize LPS-induced inflammation in the lower respiratory tract through an IL-12 dependent pathway. **Journal of Immunology** 163:224-231, 1999 (NCER).

Schwartz, J and Neas, LM. Fine particles are more strongly associated than coarse particles with acute respiratory health effects in schoolchildren. **Epidemiology** 11:6-10, 2000.

Schwetz, BA, Lehman-McKeeman, L and Birnbaum, LS. Toxicological research involving humans: ethical and regulatory considerations. **Toxicological Sciences** 85: 419-421, 2005.

Seed, J, Carney, E, Corley, R, Crofton, K, Desesso, J, Foster, P, Kavlock, R, Kimmel, G, Klaunig, J, Meek, M, Preston, J, Slikker, W, Tabacova, S, Williams, G, Wiltse, J, Zoeller, R, Fenner-Crisp, P and Patton, D. Overview: Using mode of action and life stage information to evaluate the human relevance of animal toxicity data. **Critical Reviews in Toxicology** 35:663-672, 2005.

Selevan ,SG, Kimmel, CA and Mendola, P. Identifying critical windows of exposure for children's health. **Environmental Health Perspectives** 108 (Suppl 3):451-455, 2000.

Selevan, SG, Borkovec, L, Slott VL, Zudová, Z, Rubeš, J, Evenson, DP and Perreault, SD. Semen quality and reproductive health of young Czech men exposed to seasonal air pollution. **Environmental Health Perspectives** 108:887-894, 2000.

Selevan, SG, Rice, DC, Hogan, KA, Euling, SY, Pfahles-Hutchens, A and Bethel, J. Blood lead concentration and delayed puberty in girls. **New England Journal of Medicine** 348:1527-1536, 2003.

Selgrade, MK. Biomarkers of effects: the immune system. Journal of Biochemical and Molecular Toxicology 19: 177-170, 2005.

Selgrade, MJK, Lambert, AL, Ward, MDW and Gilmour, MI. Animal models to assess the effects of air pollutants on allergic lung disease. **Annals New York Academy of Sciences** 919:230-238, 2000.

Selgrade, MJ, Smith, M, Oberhelman-Bragg, L, LeVee, G, Koren, H and Cooper, K. Dose response for UV-induced immune suppression in people of color: Differences based on erythemal reactivity rather than skin pigmentation. **Photochemistry and Photobiology** 74:88-95, 2001.

Selgrade, M, Lemanske, RF, Gilmour, MI, Neas, LM, Ward, MD, Henneberger, PK, Weissman, DN, Weissman, JA, Hoppin, J, Dietert, RR, Sly, PD, Geller, AM, Enright, PL, Backus, G, Bromberg, PA, Germolec, D and Yeatts, KB. Induction of asthma and the environment: What we know and need to know. **Environmental Health Perspectives** 114: 634-640, 2006.

Sexton, K. Socioeconomic and racial disparities in environmental health: Is risk assessment part of the problem or part of the solution? **Human and Ecological Risk Assessment** 6:561–574. 2000 (NCER).

Sexton, K, Greaves, IA, Church, TR, Adgate, JL, Ramachandran, G, Tweedie, RL, Fredrickson, A, Geisser, M, Sikorski, M, Fischer, G, Jones, D and Ellringer, P. A school-based strategy to assess children's environmental exposures and related health effects in economically disadvantaged urban neighborhoods. Journal of Exposure Analysis and Environmental Epidemiology 10:682–694, 2000 (NCER).

Sexton, K, Adgate, JL, Eberly, LE, Clayton, CA, Whitmore, RW, Pellizzari, ED, Lioy, PJ and Quackenboss, JJ Predicting children's short-term exposure to pesticides results of a questionnaire screening approach. **Environmental Health Perspectives** 111:123–128, 2003 (NCER).

Sexton, K, Adgate, JL, Church, TR, Greaves, IA, Ramachandran, G, Fredrickson, AL, Geisser, MS and Ryan, AD. Recruitment, retention, and compliance results from a probability study of children's environmental health in economically disadvantaged neighborhoods. **Environmental** 

Health Perspectives 111:731–736, 2003 (NCER).

Sexton, K, Adgate, JL, Church, TR, Hecht, SS, Ramachandran, G, Greaves, IA, Fredrickson, AL, Ryan, AD, Carmella, SG and Geisser, MS. Children's exposure to environmental tobacco smoke: using diverse exposure metrics to document ethnic/racial differences. **Environmental Health Perspectives** 112:392–397, 2004 (NCER).

Shafer, TJ, Meacham, CA and Barone, S Jr. Effects of prolonged exposure to nanomolar concentrations of methylmercury on voltage-gated sodium and calcium currents in PC12 cells. **Developmental Brain Research** 136:151-164, 2002.

Shafer,TJ, Meyer, DA and Crofton,KM. Developmental neurotoxicity of pyrethroid insecticides: Critical review and future research needs. **Environmental Health Perspectives** 113: 123-126, 2005.

Sharbaugh, C, Viet, SM, Fraser, A and SB McMaster. Comparable measures of cognitive function in human infants and laboratory animals to identify environmental health risks to children. **Environmental Health Perspectives:** 111:121-134, 2003.

Shaw, GM, Lammer, EJ, Zhu, H, Baker, MW, Neri, E and Finnell, RH. Maternal periconceptional vitamin use, genetic variation of infant reduced folate carrier (A80G) and risk of spina bifida. **American Journal of Medical Genetics** 108:1-6, 2002 (NCER).

Shaw, GM, Zhu, H, Lammer, EJ, Yang, W and Finnell, RH. Genetic variation of infant reduced folate carrier (A80G) and risk of orofacial and conotruncal heart defects. **American Journal of Epidemiology** 158:747-752, 10-15-2003 (NCER).

Shaw, GM, Nelson, V, Iovannisci, DM, Finnell, RH and Lammer, EJ. Maternal occupational chemical exposures and biotransformation genotypes as risk factors for selected congenital anomalies. **American Journal of Epidemiology** 157:475-484, 2003 (NCER).

Shaw, GM, Quach, T, Nelson, V, Carmichael, SL, Schaffer, DM and Selvin, S. Neural tube defects in offspring associated with maternal periconceptional dietary intake of simple sugars and glycemic index. **American Journal of Clinical Nutrition** 78:972-978, 2003 (NCER).

Shen, M. Berndt, SI, Rothman, N, DeMarini, D, Mumford, JL, He, X, Bonner, MR, Tian, L, Yeager, M, Welch, R, Chanock, S, Zheng, T, Caporaso, N and Lan, Q. Polymorphisms in the DNA molecule excision repair genes and lung cancer risk in Xuan Wei, China. **International Journal of Cancer** 116: 768-773, 2005.

Shore, SA, Abraham, JH, Schwartzman, IN, Krishna Murthy, GG and Laporte, JD. Ventilatory responses to ozone are reduced in immature rats. **Journal of Applied Physiology** 88:2023-2030, 2000 (NCER).

Shore, SA, Schwartzman, IN, LeBlanc, B, Krishna Murthy, GG and Doerschuk, CM. Tumor necrosis factor receptor 2 contributes to ozone-induced airway hyperresponsiveness in mice. **American Journal of Respiratory and Critical Care Medicine** 164:602-607, 2001 (NCER).

Shore, SA, Johnston, RA, Schwartzman, IN, Chism, D and Krishna Murthy, GG. Ozone-induced airway hyperresponsiveness is reduced in immature mice. **Journal of Applied Physiology** 92:1019-1028, 2002 (NCER).

Sills, RC, Morgan, DL, Herr, DW, Little, PB, George, NM, Ton, TV, Love, NE Maronpot, RR and Johnson, GA. Contribution of magnetic resonance microscopy in the 12-week neurotoxicity evaluation of carbonyl sulfide in F-344 rats. **Toxicological Pathology** 31: 501-510, 2004.

Skinner EA, Diette GB, Algatt-Bergstrom P, Nguyen TTH, Clark B, Markson LE and Wu AW. The asthma therapy assessment questionnaire (ATAQ) for children and adolescents. **Disease Management** 7:3005-313, 2004 (NCER).

Sienra-Monge, JJ, Rameriz-Aguilar, M, Moreno-Macias, H, Reyes-Ruiz, NI, Del Rio-Navarro, BE, Ruiz-Navarro, MX, Hatch, G, Crissman, K, Slade, R, Devlin, RB and Romieu, I. Antioxidant supplementation and nasal inflammatory responses among young asthmatics exposed to high levels of ozone. **Clinical and Experimental Immunology** 138: 317-322, 2004.

Sills, RC, Morgan, DL, Herr, D, Little, P, George, N, Ton, T, Love, N, Maronpot, R and Johnson, GA. Contribution of magnetic resonance microscopy in the 12-week neurotoxicity evaluation of carbonyl sulfide in F344 rats. **Toxicologic Pathology** 31:501-510 2004.

Sing, P, DeMarini, DM, Dick, CAJ, Tabor, D, Ryan, J, Linak, WP, Kobayashi, T and Gilmour, MI. Sample characterization of automobile and forklift diesel exhaust particles and comparative toxicity in mice. **Environmental Health Perspectives** 112:820-25, 2004.

Singh, P, Daniels, M, Winsett, DW, Richards, J, Doerfler, D, Hatch, G, Adler, KB and Gilmour, MI. Phenotypic comparison of allergic airway responses to house dust mite in three rat strains. American Journal of Physiology: **Lung Cellular and Molecular Physiology** 284:L588-98, 2003.

Slaughter, JC, Lumley, T, Sheppard, L, Koenig, JQ and Shapiro, GG. Effects of ambient air pollution on symptom severity and medication use in children with asthma. **Annuals of Allergy Asthma and Immunology** 91: 346-353, 2003.

Slikker, W, Acuff-Smith, KD, Boyes, WK, CHelonis, J, Crofton, KM, Dearlove, G, Li, A, Moser, V, Newland, C, Rossi, J, Schantz, s, Sette, W, Sheets, LP, Stanton, ME, Tyl, S and Sobotka, TJ, Behavioral test methods workshop. **Neurotoxicology and Teratology** 27: 417-427, 2005.

Smialowicz, RJ. The rat as a model in developmental immunology. **Human and Experimental Toxicology** 21: 513-519, 2002.

Smialowicz, RJ, Williams, WC, Copeland, CB, Harris, MW, Overstreet, D, Davis, BJ and Chapin, RE. The effects of perinatal/juvenile heptachlor exposure on adult immune and reproductive system function in rats. **Toxicological Sciences** 61: 164-175, 2001.

Smith, KR, Pinkerton, KE, Watanabe, T, Pedersen, TL, Ma, SF and Hammock, BD. Attenuation of tobacco smoke-induced lung inflammation by treatment with a soluble epoxide hydrolase inhibitor. **Proceedings of the National Academies of Science** 102:2186-2191, 2005 (NCER).

Spannhake EW, Reddy SPM, Jacoby DB, Yu XY, Saatian B and Tian J. Synergism between rhinovirus infection and oxidant pollutant exposure enhances airway epithelial cell cytokine production. **Environmental Health Perspectives** 110: 665-670, 2002 (NCER).

Srinivasan A, Beck C, Buckley T, Geyh A, Bova G, Merz W and Perl TM. The ability of hospital ventilation systems to filter Aspergillus and other fungi following a building implosion. **Infection Control and Hospital Epidemiology** 23:520-524, 2002 (NCER).

Stephen, GA, McRill, C, Mack, MD, O'Rourke, MK, Flood, TJ and Lebowitz, MD. Assessment of respiratory symptoms and asthma prevalence in a U.S.-Mexico border region. Archives of Environmental Health 58:156–162, 2003 (NCER).

Stillman, FA, Wipfli, HL, Lando, HA, Leischow, S and Samet, JM. Building capacity for international tobacco control research: the global tobacco research network. **American Journal of Public Health** 95: 965-968, 2005.

Stokes, CL, Lewis, AK, Subramanian, K, Klinke II, DJ, Okino, MS and Edelman, JM. A computer model of chrnoic asthma with application to clinical studies: Example of treatment of exercise-induced asthma. **Journal of Allergy and Clinical Immunology** 107:933, 2001.

Strong L, Thompson B, Coronado G, Griffith W, Vigoren E and Islas I. Health symptoms and exposure to organophosphate pesticides in farmworkers. **American Journal of Industrial Medicine** 46: 599-606, 2004 (NCER).

Stroop, M, Dietrich, KN and Hunt, AN. Lead based paint health risk assessment in dependent children living in military housing. **Public Health Reports** 117:446–452, 2002 (NCER).

Strunk, RC, Ford, JG and Taggart, VT. Reducing disparities in asthma care: Priorities for research-National Heart Lung and Blood Institute Workshop Report. Journal of Allergy and Clinical Immunology 109:229–237, 2002 (NCER).

Suk, WA, Ruchirawat, KM, Balakrishnan, K, Berger, M, Carpenter, D, Damstra, T, deGarbino Pronczuk, J, Koh, D, Landrigan, PJ, Makalinao, I, Sly, PD, Xu, Y and Zheng, BS: Environmental Threats to Children's Health in southeast Asia and the Western Pacific. **Environmental Health Perspectives** 111:1340-1347, 2003 (NCER).

Sun, Li, Zidek, JV, Lee, ND and Özkaynak H. Interpolating Vancouver's daily ambient PM<sub>10</sub>

field. Environmetrics 11:651-663, 2000.

Susser, EB, Brown, A and Matte, TD: Prenatal factors and adult mental and physical health. **Canadian Journal of Psychiatry** 44:326-34, 1999 (NCER).

Susser, E, Terry, MB and Matte T: The birth cohorts grow up: new opportunities for epidemiology. **Paediatrics and Perinatal Epidemiology** 14:98-100, 2000 (NCER).

Swartz LJ, Callahan KA, Butz AM, Kanchanaraksa S, Diette GB, Krishnan JA, Breysse PN, Buckley TJ, Mosley AM and Eggleston PA. Methods and issues in conducting a community-based environmental randomized trial. **Environmental Research** 5:156-165, 2004 (NCER).

Tal, TL, Graves, LM, Silbajoris, R, Bromberg, PA, Wu, W and Samet, JM. Inhibition of protein tyrosine phosphatase activity mediates epidermal growth factor receptor signaling in human airway epithelia cells exposed to Zn (2+). **Toxicology and Applied Pharmacology**, in press, 2006.

Teitelbaum, SL. Questionnaire assessment of nonoccupational pesticide exposure in epidemiologic studies of cancer. Journal of Exposure Analysis and Environmental Epidemiology12:373-380, 2002 (NCER).

Tesfaigzi, Y, Myers, OB, Stidley, CA, Schwalm, K, Picchi, M, Crowell, RE, Gilliland, FD and Belinsky, SA. Genotypes in matrix metalloproteinase 9 are risk factors for chronic obstructive pulmonary disease. **Experimental Lung Research** 31 Suppl 1: 74-75, 2005 (NCER).

Thompson, B, Coronado, G and Puschel, K. Identifying constituents to participate in a project to control pesticide exposure in children of farmworkers. **Environmental Health Perspectives** 109:443–448, 2001 (NCER).

Thompson, B, Coronado, GD and Grossman, JE. Pesticide take-home pathway among children of agricultural workers: study design, methods, and baseline findings. **Journal of Occupational Environmental Medicine** 45:42–53, 2003 (NCER).

Thurston GD, Ito K, Mar T, Christensen WF, Eatough DJ, Henry RC, Kim E, Laden F, Lall R, Larson TV, Liu H, Neas L, Pinto J, Stolzel M, Suh H and Hopke PK. Workgroup report: workshop on source apportionment of particulate matter health effects--intercomparison of results and implications. **Environmental Health Perspectives** 113:1768-74, 2005.

Tilson, HA. New horizons: future directions in neurotoxicology. **Environmental Health Perspectives** 108 (Suppl 3): 439-441, 2000.

Tilson, HA. Neurotoxicology risk assessment guidelines. Developmental neurotoxicology. **NeuroToxicology** 21: 189-194, 2000.

Tilson, HA. The role of developmental neurotoxicology studies in risk assessment. **Toxicologic Pathology** 28: 149-156, 2000.

Timchalk, C, Kousba, A and Poet, TS. Assessing the impact of human PON1 polymorphisms: sensitivity and Monte Carlo analyses using a physiologically based pharmacokinetic/ pharmacodynamic (PBPK/PD) model for chlorpyrifos. **Toxicological Sciences** 66:1525, 2002 (NCER).

Timchalk, C, Kousba, A and Poet, TS. Monte Carlo analysis of the human chlorpyrifos-oxonase (PON1) polymorphism using a physiologically based pharmacokinetic and pharmacodynamic (PBPK/PD) model. **Toxicology Letters** 135:51-59, 2002 (NCER).

Timchalk, C, Kousba, A and Poet, TS. Development of a neonatal rat physiologically based pharmacokinetic/pharmacodynamic (PBPK/PD) model for chlorpyrifos. **Toxicological Sciences** 72:1483, 2003 (NCER).

Timchalk, C, Poet, TS and Kousba, AA. Age-dependent pharmacokinetic and pharmacodynamic response in preweaning rats following oral exposure to the organophosphorous insecticide chlorpyrifos. **Toxicology** 220: 13-25, 2006 (NCER).

Timchalk, C, Kousba, A and Poet, TS. An age-dependent physiologically based pharmacokinetic pharmacodynamic model for the organophosphate insecticide chlorpyrifos in the neonatal rat. **Journal of Children's Health**, in press, 2006.

Timchalk, C, Poet, TS, Kousba, AA, Campbell, JA and Lin, Y. Noninvasive biomonitoring approaches to determine dosimetry and risk following acute chemical exposure: Analysis of lead or organophosphate insecticide in saliva. **Journal of Toxicology and Environmental Health Part A** 67: 635-650, 2004 (NCER).

Tonne, CC, Whyatt, RM, Camann, DE, Perera, FP and Kinney, PL. Predictors of personal polycyclic aromatic hydrocarbon exposures among pregnant minority women in New York City. **Environmental Health Perspectives** 112:754–759, 2004 (NCER).

Torres-Arreola, L, Berkowitz, G, Torres-Sánchez, L,López-Cervantes, M, Cebrián-García, ME, Uribe, M, Wolff, MS and López-Carrillo, L. Preterm birth in relation to maternal organochlorine serum levels. **Annals of Epidemiology** 13:158-62, 2003 (NCER).

Torres-Sanchez, LE, Berkowitz, G, Lopez-Carrillo, L, Torres-Arreola, L, Rios, C and Lopez-Cervantesc M. Intrauterine lead exposure and preterm birth. **Environmental Research** 81:297-301, 1999 (NCER).

Torres-Sánchez L, López-Carrillo L, López-Cervantes L, Rueda-Neria C and Wolff MS. Food sources of phytoestrogens and breast cancer risk in Mexican women. **Nutrition and Cancer** 37: 16-21, 2000 (NCER).

Transande, L and Landrigan, PJ. The National Children's Study: a critical national investment. **Environmental Health Perspectives** 112: A789-790, 2004 (NCER).

Trasande, L and Thurston, GD. The role of air pollution in asthma and other pediatric morbidities. **Journal of Allergy and Clinical Immunology** 115: 689-699, 2005.

Trasande, L, Schechter, C and Landrigan, PJ. Public health and economic consequences of environmental methylmercury toxicity to the developing brain. **Environmental Health Perspectives** 113:590-596, 2005 (NCER).

Trasande, L, Schechter, CB, Haynes, KA and Landrigan, PJ. Mental retardation and prenatal methylmercury toxicity. **American Journal of Industrial Medicine** 49: 153-158, 2006.

Tulve, NS, Suggs, JC, McCurdy ,T, Cohen-Hubal, EA and Moya J. Frequency of mouthing behavior in young children. Journal of Exposure Analysis and Environmental Epidemiology 12: 259-264, 2002.

Vajanapoom, N, Shy, CM, Neas, LM and Loomis, D. Estimation of particulate matter from visibility in Bangkok, Thailand. Journal of Exposure Analysis and Environmental Epidemiology 11:97-102, 2001.

Vajanapoom,N, Shy,CM, Neas,LM and Loomis,D. Associations of particulate matter and daily mortality in Bangkok, Thailand. **Southeast Asian Journal of Tropical Medicine and Public Health** 33:389-399, 2002.

Van Bree, L, Dormans, J, Koren, H, Devlin, R and Rombout, P. Attenuation and recovery of pulmonary injury in rats following short-term, repeated daily exposure to ozone. **Inhalation Toxicology** 14:101-118, 2002.

Vandenberg, JJ. The role of air quality management programs in improving public health: a brief synopsis. **Journal of Allergy and Clinical Immunology** 115: 334-346, 2005.

Van Larebeke, NA, Birnbaum, LS, Boogaerts, MA, Bracke, M, Davis, DL, Demarini, DM, Hooper, K, Huff, J, Kleinjans, JC, Legator, MS, Schoeters, G and Vahakangas, K. Unrecognized or potential risk factors for childhood cancer. **International Journal of Environmental Health** 11: 199-201, 2005.

Van Loveren, HD, Gorelic, **D**, Koren, H, Luster, M, Nolan, Repetto, R, Smith, E, Vos, J and Vogt., R. Advancement of epidemiological studies in assessing the human health effects of immunotoxic agents in the environment and the workplace. **Biomarkers** 4:135-157, 1999.

Van Putten, HP, Bouwhuis, MG, Mizelaar, JP, Lyeth, BG and Berman, RF. Diffusion-weighted imaging of edema following traumatic brain injury in rats: effects of secondary hypoxia. **Journal of Neurotrauma** 22: 857-872, 2005 (NCER).

Vesper, S J and Vesper, MJ. Stachylysin may be a cause of hemorrhaging in humans exposed to *Stachybotrys chartarum*. **Infection and Immunity** 70:2065-2070, 2002.

Vesper, SJ, Dearborn, DG, Yike, I, Sorenson, WG and Haugland, RA. Hemolysis, toxicity and RAPD analysis of *Stachybotrys chartarum* strains. **Applied and Environmental Microbiology** 65:3175-3181, 1999.

Vesper, SJ, Dearborn, DG, Elidemir, O, and Haugland, RA.. Quantification of siderophore and hemolysin from *Stachybotrys chartarum* strains, including a strain isolated from the lung of a child with pulmonary hemorrhage and hemosiderosis. **Applied Environmental Microbiology** 66:2678-2681, 2000.

Vesper, SJ, Magnuson, ML, Dearborn, D, Yike, I and Haugland, RA. Initial characterization of the hemolysin stachylysin from *Stachybotrys chartarum*. **Infection and Immunity** 69:912-916, 2001.

Vesper, SJ, Varma, M, Wymer, LJ, Dearborn, DG, Sobolewski, J and Haugland, RA. Quantitative PCR analysis of fungi in dust from homes of infants who developed idiopathic pulmonary hemorrhaging. **Journal of Occupational and Environmental Medicine** 46:596-601, 2004.

Vette, A, Rea, AW, Lawless, PA, Rodes, CE, Evans, EG, Highsmith, VR, Creason, JP and Sheldon, LS. Characterization of indoor-outdoor aerosol concentration relationships during the Fresno PM exposure studies. **Aerosol Science and Technology** 34:118-126, 2001.

Vette, AF, Landis, MS and Keeler, G. J. Deposition and emission of gaseous mercury to and from Lake Michigan during the Lake Michigan Mass Balance Study (July 1994-October 1995). Environmental Science and Technology 36: 4525-4532, 2002.

Vette, A, Gavett, S, Perry, S, Heist, D, Huber, A, Lorber, M, Lioy, P, Georgopoulos, P, Rao, ST, Petersen, W, Hicks, B, Irwin, J and Foley, G. Environmental research in response to 9/11 and Homeland Security. **Environmental Management**, in press, 2006.

Vette, A, Seila, R.; Swartz, E, Pleil, J, Webb, L, Landis, M, Huber, A and Vallero, D. Air pollution measurements in the vicinity of the World Trade Center-Summary of measurements conducted by EPA-ORD. **Environmental Management,** in press, 2006.

Viana, ME, Coates, NH,Gavett, SH, Selgrade, MJ, Vesper, SJ and Ward, M. An extract of Stachybotrys chartarum causes allergic asthma-like response in a BALB/c mouse model. **Toxicological Sciences** 70:98-109, 2002.

Viant, MR, Lyeth, BG, Miller, MG and Berman, RF. An NMR metabolomic investigation of early metabolic disturbances following traumatic brain injury in a mammalian model. **NMR in Biomedicine** 18: 507-516, 2005 (NCER).

Von Mutius, E, Schwartz, J, Neas, LM, Dockery, D and Weiss, ST. Relation of body mass index to asthma and atopy in children: the National Health and Nutrition Examination Study III. **Thorax** 56:835-8, 2001.

Voss AA, Lango J, Ernst-Russell M, Morin D and Pessah IN. Identification of hyperreactive cysteines within ryanodine receptor type 1 by mass spectrometry. **Journal of Biological Chemistry** 279: 34514-34520, 2004 (NCER).

Wagner, E, Frank, MM and Smialowicz, RJ. 2,3,7,8-Tetrachlorodibenzo-p-doxin and natural immunity: lack of an effect on the complement system in a guinea pig model. **Toxicology** 159: 107-113, 2001.

Wallace D, Wallace R and Rauh V. Community stress, demoralization and body mass index: evidence for social signal transduction. **Social Science and Medicine**\_ 56:2467-78, 2003 (NCER).

Wallace, LA, Mitchell, H, O'Connor, GT, Neas, L, Lippmann, M, Kattan, M, Koenig, J, Stout, JW, Vaughn ,BJ, Wallace, D, Walter, M, Adams, K and Liu, LJ. Inner-City Asthma Study. Particle concentrations in inner-city homes of children with asthma: the effect of smoking, cooking, and outdoor pollution. **Environmental Health Perspectives** 111:1265-1272, 2003.

Walters DM, Wills-Karp M and Mitzner W. Assessment of cellular profile and lung function with repeated bronchoalveolar lavage in individual mice. **Physiological Genomics** 2: 29-36, 2000 (NCER).

Walters DM, Breysse PN and Wills-Karp M. Ambient urban Baltimore particulate-induced airway hyperresponsiveness and inflammation in mice. American Journal of Respiratory and Critical Care Medicine 164:1438-1443, 2001.

Walters DM, Breysse PN, Schofield B and Wills-Karp M. Complement factor 3 mediates particulate matter-induced airway hyperresponsiveness. **American Journal of Respiratory Cell and Molecular Biology** 27:1-6, 2002 (NCER).

Wang, X, Zuckerman, B, Kaufman, G, Wise, P, Hill, M, Niu, T, Ryan, L, Wu, D and Xu, X. Molecular epidemiology of preterm delivery: methodology and challenges. **Pediatric and Prenatal Epidemiology** 15 Suppl 2:63-77, 2001 (NCER).

Wang, XB, Chen, DF, Niu, TH, Wang, ZX, Wang, LH, Ryan, L, Smith, T, Christiani, DC, Zuckerman, B and Xu, XP. Genetic susceptibility to benzene and shortened gestation: evidence of gene-environment interaction. **American Journal of Epidemiology** 152:693-700, 2000 (NCER).

Wang, X, Zuckerman, B, Pearson, C, Kaufman, G, Chen, C, Wang, G, Niu, T, Wise, P, Bauchner, H and Xu, X. Maternal cigarette smoking, metabolic gene polymorphism, and infant birth weight. **New England Journal of Medicine** 287:195-202, 2002 (NCER).

Ward, MD and Selegrade, MK. Benefits and risks in malaria control. Science 310: 49-51, 2005.

Ward, MD, Sailstad, DM, Andrews, DL, Boykin, EH and Selegrade, MJ. Ultraviolet radiation downregulates allergy in BALB/c mice. **Journal of Toxicology and Environmental Health A** 67: 73-85, 2004.

Weiss, B and Landrigan, P. The developing brain and the environment: an introduction. **Environmental Health Perspectives** 108 (Supplement):373-374, 2000 (NCER).

Wenten, M, Berhane, K, Rappaport, EB, Avol, E, Tsai, WW, Gauderman, WJ, Mcconnel, R, Dubeau, L and Gilliland, FD. TNF-308 modifies the effect of second-hand smoke on respiratory illness-related school absences. American Journal of Respiratory and Critical Care Medicine 172: 1563-1568, 2005 (NCER).

Wessels, D, Barr, D and Mendola, P. Use of biomarkers to indicate exposure of children to organophosphate pesticides: Implications for a longitudinal study of children's environmental health. **Environmental Health Perspectives** 111:1939-1946, 2003.

Wetmur, JG, Kumar,M, Zhang,L, Palomeque,C, Wallenstein,S and Chen, J, Molecular haplotyping by linking emulsion PCR: analysis of paraoxonase 1 haplotypes and phenotypes. **Nucleic Acid Research** 33: 2615-2619. 2005 (NCER).

Windham, GC, Waller, K, Anderson, M, Fenster, L, Mendola, P and Swan, S. Chlorination byproducts in drinking water and menstrual cycle function. **Environmental Health Perspectives** 111:935-941, 2003.

Whelan RL, Horvath KD, Gleason NR, Forde KA, Treat MD, Teitelbaum SL, Bertram A and Neugut AI. Vitamin and calcium supplement use is associated with decreased adenoma recurrence in patients with a previous history of neoplasia. **Diseases of the Colon and Rectum** 42:212-217, 1999 (NCER).

White LD and Barone, S., Jr., Qualitative and quantitative estimates of apoptosis from birth to senescence in the rat brain. **Cell Death and Differentiation** 8: 345-356, 2001.

Whitekus, MJ, Li, N, Zhang, M, Wang, M, Horwitz, A, Nelson, SK, Horwitz, LD, Brechun, N, Diaz-Sanchez, D and Nel, AE. Thiol antioxidants inhibit the adjuvant effects of aerosolized diesel exhaust particles in a murine model for ovalbumin sensitization. **Journal of Immunology** 168: 2560-2567, 2002 (NCER).

Whyatt, RM, Perera, FP, Jedrychowski, W, Santella, RM, Garte, SJ and Bell, DA. Association between polycyclic aromatic hydrocarbon-DNA adduct levels in maternal and newborn white blood cells and glutathione S-transferase P1 and CYP1A1 polymorphisms. **Cancer Epidemiology, Biomarkers and Prevention** 9:207–212, 2000 (NCER).

Whyatt, RM, Jedrychowski, W, Hemminki, K, Santella, RM, Tsai, WY, Yong, K and Perera, FP. Biomarkers of polycyclic aromatic hydrocarbon-DNA damage and cigarette smoke exposures in paired maternal and newborn blood samples as a measure of differential susceptibility. **Cancer Epidemiology, Biomarkers and Prevention** 10:581–588, 2001 (NCER).

Whyatt, RM and Barr, DB. Measurement of organophosphate metabolites in postpartum meconium as a potential biomarker of prenatal exposure: A validation study. **Environmental Health Perspectives** 109:417–420, 2001 (NCER).

Whyatt, RM, Camann, DE, Kinney, PL, Reyes, A, Ramirez, J, Dietrich, J, Diaz, D, Holmes, D
and Perera, FP. Residential pesticide use during pregnancy among a cohort of urban minority women. **Environmental Health Perspectives** 110:507–515, 2002 (NCER).

Whyatt, RM, Barr, DB, Camann, DE, Barr, JR, Andrews, HF, Hoepner, LA, Kinney, PL and Perera, FP. Measurement of contemporary-use pesticides in personal air samples during pregnancy and blood samples at delivery among urban minority mothers and newborns. **Environmental Health Perspectives.** 111:749–756, 2003 (NCER).

Whyatt, RM, Rauh, V, Barr, DB, Camann, DE, Kinney, PL, Andrews, HF, Garfinkel, R, Dietrich, J, Didi, D and Perera, FP. Prenatal insecticide exposure and birth outcomes among an urban minority cohort. **Environmental Health Perspectives** 112:1125–1132, 2004 (NCER).

Whyatt RM, Camann D, Perera FP, Rauh VA, Tang D, Kinney PL, Garfinke1 R, Andrews H, Hoepner Land Barr DB. Biomarkers in assessing residential insecticide exposures during pregnancy and effects on fetal growth. **Toxicology and Applied Pharmacology** 206:246-254, 2005 (NCER).

Wilke, M and Holland, SK. Variability of gray and white matter during normal development. **Neuroreport** 14:1887–1890, 2003 (NCER).

Wilke, M, Holland, SK and Ball, WS Jr. Language processing during natural sleep in a 6 year old boy, as assessed with functional MR imaging. **American Journal of Neuroradiology** 24:42 – 44, 2003 (NCER).

Wilke, M, Sohn, JH, Byars, AW and Holland, SK. Bright spots correlations of gray matter volume with IQ in a normal pediatric population. **Neuroimage** 20:202–215, 2003 (NCER).

Wilke, M, Holland, SK, Myseros, JS, Schmithorst, VJ and Ball, WS Jr. Functional magnetic resonance imaging in pediatrics. **Neuropediatrics** 34:225–233, 2003 (NCER).

Wilke, M, Schmithorst, VJ and Holland, SK. Normative pediatric brain data for spatial normalization and segmentation differs from standard adult data. **Magnetic Resonance in Medicine** 50:749-757, 2003 )NCER).

Wilkes, CR, Mason, AD and Hern, SC. Probability distributions for showering and bathing water-use behavior for various US subpopulations. **Risk Analysis** 25: 317-337, 2005.

Williams, R, Suggs, J, Rea, A, Leovic, K, Vette, A, Croghan, C, Sheldon, L, Rodes, C, Thornburg, J, Ejire, A, Herbst, M and Sanders, W. The Research Triangle Park particulate matter panel study: PM mass concentration relationships. **Atmos Environment** 37: 5349-5363, 2003.

Wills-Karp M. Immunologic basis of antigen-induced airway hyperresponsiveness. **Annual Review of Immunology** 17:255-281, 1999 (NCER).

Wills-Karp M. Murine models of asthma in understanding immune dysregulation in human asthma. **Immunopharmacology** 48: 263-268, 2000 (NCER).

Wilson, NK, Chuang, JC and Lyu, C. Levels of persistent organic pollutants in several child day care centers. **Journal of Exposure Analysis and Environmental Epidemiology** 11: 449-458, 2001.

Wilson, NK, Chuang, JC, Lyu, C, Menton, R and Morgan, MK. Agregate exposures of nine preschool children to persisten organic pollutants at day care and at home. **Journal of Exposure Analysis and Environmental Epidemiology** 13: 187-202, 2003.

Wilson, NK, Chuang, JC, Iachan, R, Lyu, C. Gordon, SM, Morgan, MK, Özkaynak, H and Sheldon, LS. Design and sampling methodology for a large study of preschool children's aggregate exposures to persistent organic pollutants in their everyday environments. **Journal of Exposure Analysis and Environmental Epidemiology** 14: 260-274, 2004.

Wilson, S, Kahn, RS, Khoury, J and Lanphear, BP. Racial differences in environmental exposure to tobacco smoke among children. **Environmental Health Perspectives** 113: 362-367, 2005 (NCER).

Winkelstein ML, Huss K, Butz A, Eggleston P, Vargas P and Rand C. Factors associated with medication self-administration in children with asthma. **Clinical Pediatrics** 39:337-345, 2000 (NCER).

Wohlford-Lenane, CL, Deetz, DC and Schwartz, DA. Cytokine gene expression following inhalation of corn dust. **American Journal of Physiology** 276:L736-L743, 1999 (NCER).

Wolansky, MJ, Gennings, C and Crofton, KM. Relative potencies for acute effects of pyrethroids on motor function in ratrs. **Toxicological Sciences** 89: 271-277, 2006.

Wolfenden LL, Diette GB, Skinner EA, Steinwachs DM and Wu AW. Gaps in the asthma care of the oldest adults. **Journal of the American Geriatric Society** 50: 877-883, 2002 (NCER).

Wolff MS, Anderson HA. Polybrominated biphenyls: Sources and disposition of exposure among Michigan farm residents. 1976-1980. **European Journal of Oncology** 4:645-651, 1999 (NCER).

Wolff, MS and Landrigan, PJ. Organochlorine chemicals and children's health. **Journal of Pediatrics** 140:10–13, 2002 (NCER).

Wolff, MS, Berkowitz, GS, Brower, S, Forman, J, Godbold, J, Kase, N, Lapinski, R, Larson, S, Senie, R and Tartter, P. Hormonally active environmental exposures and their relationship to risk for reproductive cancer among women. **Women and Cancer** 1:8-20, 1999 (NCER).

Wolff, MS, Deych, E, Ojo, F and Berkowitz, GS. Predictors of organochlorines in NYC pregnant women, 1998-2001. Environmental Research 97:170-177, 2005 (NCER).

Wolff, MS, Teitelbaum, SL, Lioy, PJ, Santella, RM, Wang, RY, Jones, RL, Caldwell, KL, Sjödin, S, Turner, WE, Li, W, Georgopoulos, P and Berkowitz GS. Exposures among pregnant

women near the World Trade Center Site on 9/11. **Environmental Health Perspectives** 113: 739-748, 2005 (NCER).

Won, Y, Zheng, Q, Liu, J and Pope, C. Effects of oral chlorpyrifos on cortical and striatal muscarinic autoreceptor function in neonatal, juvenile and adult rats. **Toxicological Sciences** 48:101, 1999 (NCER).

Won, YK, Zheng, Q, Olivier, J, Liu, J and Pope, CN. Age-related effects of chlorpyrifos on acetylcholine release in rat brain. **NeuroToxicology** 22:37-46, 2001 (NCER).

Wong, EY, Shirai, JH and Garlock, TJ. Survey of selected activities relevant to exposures to soils. **Bulletin of Environmental Contamination and Toxicology** 65:443–450, 2000 (NCER).

Wong, EY, Shirai, JH and Garlock, TJ. Adult proxy responses to a survey of children's dermal soil contact activities. **Journal of Exposure Analysis and Environmental Epidemiology** 10: 509–517, 2000 (NCER).

Wong E, Gohlke J, Griffith W, Farrow S and Faustman E. Assessing the health benefits of air pollution reduction for children. **Environmental Health Perspectives** 112: 226-232, 2004 (NCER).

Wong E, Ponce R, Farrow S, Bartell S, Lee R and Faustman E. Comparative risk and policy analysis in environmental health. **Risk Analysis** 23: 1337-49, 2003 (NCER).

Wong, DW, Yuan, LL and Perlin, SA. Comparison of spatial interpolation methods for the estimation of air quality data. Journal of Exposure Analysis and Environmental Epidemiology Methods 14:404-415, 2004.

Wood RA, Eggleston PA, Rand C, Nixon WJ and Kanchanaraska S. Cockroach allergen abatement with sodium hypochlorite in inner city homes. **Annals of Allergy Asthma and Immunology** 87: 60-64, 2001 (NCER).

Wu AW, Young Y, Skinner EA, Diette GB, Huber M, Peres A and Steinwachs D. Quality of care and outcomes of adults with asthma treated by specialists and generalists in managed care. **Archives of Internal Medicine** 161:2554-2560, 2001 (NCER).

Wu, D, Wang, X, Chen, D, Niu, T, Ni, J, Liu, X and Xu, X. Metabolic gene polymorphisms and risk of dysmenorrhea. **Epidemiology** 11:648-653, 2000 (NCER).

Wu, H, Timchalk, C, Kousba, A and Poet, TS. Intestinal metabolism of organophosphate insecticides: potential first-pass metabolism. **Toxicological Sciences** 72:440, 2003 (NCER).

Wu, H, Kousba, A, Timchalk, C and Poet, TS. Hepatic and intestinal CYP450 metabolism of chlorpyrifos. **Toxicological Sciences** 66:LB134, 2002 (NCER).

Wu, T, Mendola, P and Buck, G. Secondary sexual characteristics and menses in US girls:

Ethnic differences. Pediatrics 110:752-757, 2002.

Wu, T, Buck, GM and Mendola, P. Blood lead levels and sexual maturation in US girls: The Third National Health and Nutrition Examination Survey, 1988-1994. **Environmental Health Perspectives** 111:737-741, 2003.

Wu, W, Samet, JM, Silbajoris, R, Dailey, LA, Sheppard, D, Bromberg, P and Graves, LM. Heparin-binding epidermal growth factor cleavage mediates zinc-induced epidermal growth factor receptor phosphorylation. **American Journal of Respiratory Cell and Molecular Biology** 30:540-547, 2004.

Wu, W, Silbajoris, RA, Whang, YE, Graves, LM, Bromberg, PA and Samet, JM. p38 and EGF receptor kinase-mediated activation of the phosphatidylinositol 3-kinase/Akt pathway is required for Zn2+-induced cyclooxygenase-2 expression. American Journal of Physiology- Lung Cellular and Molecular Physiology 289:L883-889, 2005.

Xie B, Gilliland FD, Li Y-F and Rockett HR. Effects of ethnicity, family income and education on dietary intake among adolescents. **Preventive Medicine** 36:30-40, 2003 (NCER).

Xue, J, McCurdy, T, Spengler, JD and Özkaynak, H. Understanding variability in time spent in selected locations for 7-12-year old children. Journal of Exposure Analysis and Environmental Epidemiology 14:222-233, 2004.

Xue, J, Zartarian, VG, Ozkaynak, H, Dang, W, Glen, G, Smith, L and Stallings, C. A Probabilistic Arsenic Exposure Assessment for Children Who Contact Chromated Copper Arsenate (CCA)-Treated Playsets and Decks, Part 2: Sensitivity and Uncertainty Analyses. **Risk Analysis** 26:533-541, 2006.

Xue, J, Liu, SV, Ozkaynak, H and Sprengler, JD. Parameter evaluation and model validation of ozone exposure assessment using Harvard Southern California Chronic Ozone Exposure Study data. Journal of the Air and Waste Management Association. 55:1508-1515, 2005.

Yang W, Yaoi T, Huang S, Yang Q, Hatcher S, Seet H, Gregg JP. Detecting the C282Y and H63D mutations of the HFE gene by Holliday Junction-based allele-specific genotyping methods. **Clinical Chemistry** 51:210-213, 2005 (NCER).

Yeatts, K., Johnston, DK, Peden, D and Shy, C. Health consequences associated with frequent wheezing in adolescents without asthma diagnosis. **European Respiratory Journal** 22: 781-786, 2003.

Yeatts, K, Sly, P, Shore, W, Weiss, S, Martinez, F, Geller, A, Bromberg, P, Enright, P, Koren, H, Weissman, D and Selgrade, M. A brief targeted review of susceptibility factors, environmental exposures, asthma incidence and recommendations for future asthma incidence research. **Environmental Health Perspectives** 114: 634-640, 2006.

Yiin, L-M, Millette, JR, Vette, A, Ilacqua, V, Quan, C, Gorczynski, J, Kendall, M, Chen, LC, Weisel, CP, Buckley, B, Yang, I and Lioy, P. Comparisons of the dust/smoke particulate that settled inside the surrounding buildings and outside on the streets of southern New York City after the collapse of the World Trade Center, 11 September 2001. Journal of Air and Waste Management Association 54: 515-528, 2004.

Yike, I, Vesper, SJ, Tomashefsky, JF and Dearborn, D. Germination, viability and clearance of *Stachybotrys chartarum* in the lungs of infant rats. **Mycopathologia** 156:67-75, 2003.

Yokel, RA, Allen, DD and Ackley, DC. The distribution of aluminum into and out of the brain. **Journal of Inorganic Biochemistry** 76:127-132, 1999 (NCER).

Yokel, RA, Rhineheimer, SS, Sharma, P, Elmore, D and McNamara, PJ. Entry, half-life, and desferrioxamine-accelerated clearance of brain aluminum after a single (26)Al exposure. **Toxicological Sciences** 64:77-82, 2001 (NCER).

Yokel, RA, Rhineheimer, SS, Brauer, RD, Sharma, P, Elmore, D and McNamara, PJ. Aluminum bioavailability from drinking water is very low and is not appreciably influenced by stomach contents or water hardness. **Toxicology** 161:93-101, 2001 (NCER).

Yolton, K, Dietrich, K, Auinger, P, Lanphear, B and Hornung, R. Exposure to environmental tobacco smoke and cognitive abilities among US children and adolescents. **Environmental Health Perspectives** 113: 98-103, 2005.

Yoon, M, Madden, MC and Barton, HA. Developmental expression of aldehyde dehydrogenate in rat: A comparision of liver and lung development. **Toxicological Sciences** 89: 386-398, 2005.

Young, J, Eskenazi, B, Gladstone, EA, Bradman, A, Pedersen, L, Johnson, C, Barr, DB, Furlong CE and Holland NT. Association between *in utero* organophosphate pesticide exposure and neurobehavioral functioning in neonates. **NeuroToxicology** 26:199-209, 2005 (NCER).

Yu, O Sheppard, L, Lumley, T, Koenig, JQ and Shapiro, GG. Effects of ambient air pollution on symptoms of asthma in Seattle-area children enrolled in the CAMP study. **Environmental Health Perspectives** 108: 1209-1214, 2000.

Yu X, Sidhu JS, Hong S and Faustman EM. Essential role of extracellular matrix (ECM) overlay in establishing the functional integrity of primary neonatal rat Sertoli cell/gonocyte co-cultures: an improved in vitro model for assessment of male reproductive toxicity. **Toxicological Sciences** 84: 328-393, 2005 (NCER).

Yurk R, Diette GB, Skinner EA, Steinwachs DM and Wu AW. Predicting patient reported asthma outcomes for adults in managed Care. **American Journal of Managed Care** 10:321-328, 2004 (NCER).

Zartarian, VG, Özkaynak, H, Burke, JM, Zufall, MJ, Rigas, ML and Furtaw EJ. A modeling framework for estimating children's residential exposure and dose to chlorpyrifos via dermal residue contact and non-dietary ingestion. **Environmental Health Perspective** 108:589-594, 2000.

Zhang, H, Lindberg, SE, Barnett, MO, Vette, AF and Gustin, MS. Dynamic flux chamber measurement of gaseous mercury emission fluxes over soils. Part 1: simulation of gaseous mercury emissions from soils using a two-resistance exchange interface model. **Atmos Environment** 36: 835-846, 2002

Zheng, Q, Won, Y, Olivier, K and Pope, C. Comparative cholinergic neurotoxicity of oral chlorpyrifos exposures in preweanling and adult rats. **Toxicological Sciences** 55:124-132, 2000 (NCER).

Zhu, H, Wicker, NJ, Shaw, GM, Lammer, EJ, Hendricks, K, Suarez, L, Canfield, M and Finnell, RH. Homocysteine re-methylation enzyme polymorphisms and increased risks for neural tube defects (NTDs). **Molecular Genetics and Metabolism** 78:216-221, 2003 (NCER).

Zhu, H, Barber, R, Shaw, GM, Lammer, EJ and Finnell, RH. Is Sonic hedgehog (SHH) a candidate gene for spina bifida? **American Journal of Medical Genetics** 117A:87-88, 2003 (NCER).

Zhu, Y, Wessel, MR, Liu, T and Moser, VC. Analyses of neurobehavioral screening data: Dose and time reponse modeling of continuous outcomes. **Regulatory Toxicology and Pharmacology** 41: 240-255, 2005.

Zhu, Y, Jia, Z, Wang, W, Pierre-Louis, B, Moser, VC and Gift, JS. Analyses of neurobehavioral screening data: Benchmark dose estimation. **Regulatory Toxicology and Pharmacology** 42: 190-201, 2005.

Zeldin DC, Eggleston P, Chapman M, Piedmonte G, Renz H and Peden D. How exposures to biologics influence the induction and incidence of asthma. **Environmental Health Perspectives**, in press, 2005 (NCER).

Zidek, J, Sun, L, Le N and Özkaynak H. Contending with space-time interaction in the spatial prediction of pollution: Vancouver's hourly ambient PM<sub>10</sub> field. **Environmetrics** 13:1-19, 2002.Zinaman MJ, Brown CC, Selevan SG and Clegg ED. Semen quality and human fertility: A prospective study with normal couples. **Journal of Andrology** 21:145-53, 2000.

Zinaman ,MJ, Brown, CC, Selevan, SG and Clegg, ED. Semen quality and human fertility: A prospective study with normal couples. **Journal of Andrology** 21:145-53, 2000.

## Long-Term Goal 4 Public Health Outcomes1

Abernathy, CO, Thomas, DJ and Calderon RL. Health effects and risk assessment of arsenic. **Journal of Nutrition** (Sppl) 1536S-1538S, 2003.

Blackburn, BG, Craun, GF, Yoder, JS, Hill, V, Calderon, RL, Chen, N, Lee, SH, Levy, DA and Beach, MJ. Surveillance for waterborne-disease outbreaks associated with drinking water-United States, 2001-2003. **MMWR Surveillance Summary** 53: 23-45, 2004.

Calderon ,RL, Thomas, DJ and Abernathy, CO. Consequences of acute and chronic exposure to arsenic. **Annals of Pediatrics** 33:461-466, 2004.

Craun, GF, Frost, FJ, Calderon, RL, Hilborn, E, Fox, KR, Reasoner ,DJ, Poole, C, Rexing, DJ, Hubbs, SA and Dufour AP. Improving Waterborne disease outbreak investigations. **International Journal of Environmental Health** 11:233-247, 2001.

Craun, G, Nwachuku, N, Calderon, RL and Craun MF. Outbreaks in drinking water systems, 1991-98. Journal of Environmental Health 65:16-23, 2002.

Craun, GF, Calderon, RL and Craun, MF. Outbreaks associated with recreational water in the United States. **International Journal of Environmental Health Research** 15: 243-262, 2005.

Frost, FJ, Muller, T, Craun, CF, Calderon, RL and Roefer PA. Paired city *Cryptosporidium* serosurvey in the southwest USA. **Epidemiology and Infection** 126:301-307, 2001.

Frost, FJ, Muller, T, Craun, GF, Lockwood, WB and Calderon, RL. Serological evidence of endemic waterborne *Cryptosporidium* infections. **Annals of Epidemiology** 12:222-227, 2002

Frost, FJ, Kunde, T, Mulle, T, Craun, CF, Calderon, RL, Katz, LM and Hibbard, AJ. Serological responses to cryptosporidium antigens among users of surface versus underground drinking water sources. **Epidemiology and Infection** 131:1131-1138, 2003.

Koren, HS and Crawford-Brown, D. A framework for the integration of ecosystem and human heatlh in public policy: two case studies with infectious agents. **Environmental Research** 95: 92-105, 2004.

Peterson, CA and Calderon RL. Trends in enteric disease as a cause of death in the United States, 1989-1996. **American Journal of Epidemiology** 57:58-65, 2003.

Riediker, M and Koren, HS. The importance of environmental exposures to physical, mental and social well being. **International Journal of Hygiene and Environmental Health** 207: 193-201, 2004.

Wymer, LJ, Dufour, AP, Calderon, RL, Wade, TJ and Beach, M. Comment on "derivation of numerical values for the World Health Organization guidelines for recreational waters. **Water Research** 39: 2774-2777, 2005.

Yoder, JS, Blackburn, BG, Craun, GF, Hill, V, Levy, DA, Chen, N, Lee, SH, Calderon, RL and Beach, MJ. Surveillance for waterborne-disease outbreaks associated with recreational water-United States, 2001-2002. **MMWR Surveillance Summary** 53: 1-22, 2004.

Zenick, H and Calderon RL Human Health Outcomes and Accountability. **Environmental Policy Report** 10:1-5, 2004.