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**SOT Annual Meeting • March 15-19, 2009**  
**NIEHS and NTP Activities**

**Featured Activities**

**NIEHS/NTP Exhibit:**

Booth 1772/1673

**Meet the NIEHS Director:** Linda Birnbaum, Ph.D., D.A.B.T., A.T.S.

Wednesday, March 18, 12:00 PM, Room 316

**NTP Exhibitor Hosted Session:**

NTP Criteria for Hazard Identification in Non-Cancer Studies

Paul Foster, Ph.D. and Dori Germolec, Ph.D.

Tuesday, March 17, 1:30 PM, Room 337

**NIH Brown Bag Lunch:**

Review and grant opportunities at NIEHS

Tuesday, March 17, 12:00 PM, Room 301

Bring your lunch and join staff from the NIH Center for Scientific Review (CSR) and the Program Officers from the National Institute of Environmental Health Sciences (NIEHS) for informal discussions about grant review and NIEHS grant opportunities, including the American Recovery & Reinvestment Act. There will be time for questions and discussion.

**The Grants Room:**

Tuesday, March 17 and Wednesday, March 18, 9:30 AM - 4:30 PM or by appointment, Room 304

Meet with NIEHS Program Officers to discuss grant opportunities.

**Sunday, March 15, 2009**

**1:15 PM-5:00 PM, TBD (CE Advanced) (CC)**

**New Frontier in Metal Toxicology: Genetic Susceptibility, Early Diagnosis, and Related Biological Indices (PM12)**

New Frontier in Metal Toxicology: Genetic Susceptibility, Early Diagnosis, and Related Biological Indices.

C.D. Klaassen; M.P. Waalkes; D.A. Cory-Slechta; W. Zheng; M.J. McCabe

**Monday, March 16, 2009**

**9:30 AM-12:30 PM, Exhibit Hall, Poster Session**

**Nanotoxicology *In Vivo***

Poster Board 339. Evaluation of the effect of particle size on the toxicity and toxicokinetics of fullerene C60 in rats and mice following nose-only inhalation exposure. N.J. Walker; G.L. Baker; J.A. Dill; D.R. Germolec; K.L. White; J.H. Roycroft

Poster Board 344. Lack of dermal penetration following topical application of coated and uncoated nano- and micron-sized titanium dioxide to intact and dermabraded skin in mice. N.V. Gopee; C. Cozart; P. Siitonen; C.S. Smith; N.J. Walker; P.C. Howard

Poster Board 349. PBPK modeling of micro and nano-sized fluorescent polystyrene spheres. X. Chang; K. Sarlo; N.J. Walker; K. Blackburn; E. Clark; J. Chaney; J. Grothaus; C.J. Portier

Poster Board 351. Potential cardiovascular effects of fullerene C60 inhalation exposure. P.P. Simeonova; A. Erdelyi; A. Liston; M.I. Luster; J. Roycroft; D. Germolec; N.J. Walker

**9:30 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Apoptosis: Activators and Regulatory Pathways**

Poster Board 433. Profiling environmental chemicals in apoptosis pathway using a high-throughput format. M. Cho; R. Huang; K. Leister; K.L. Witt; C.S. Smith; J. Inglese; R.R. Tice; C.P. Austin; M. Xia

Poster Board 447. The cytolethal effects of JS-K, an anti-tumor nitric oxide releasing prodrug, in human pharyngeal carcinoma FaDu cells. J. Liu; X. Wang; W. Qu; R. Dong; L.K. Keefer; J.E. Saavedra; M.P. Waalkes

**9:30 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Insights in Endocrine Action and Toxicology**

Poster Board 226. Evaluation of subchronic toxicity and estrogenic activity of black cohosh in female weanling Wistar Han rats exposed by gavage. M.D. Stout; S.A. Elmore; L.M. Fomby; P.M. Foster; D.R. Germolec; G.E. Kissling; D.E. Malarkey; G.S. Travlos; M.K. Vallant; R.S. Chhabra

**9:30 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Redox-Cycling, Reactive Oxygen Species (ROS), and Damage**

Poster Board 513. 5-Carboxamido-5-formamido-2-iminohydantoin (2-Ih), a new oxidation product in DNA. L.M. Ball; W. Ye; R. Sangaiah; D. Degen; A. Gold; K. Jayaraj; K.M. Koshlap; G. Boysen; J. Williams; K.B. Tomer; V. Moceanu; N. Dicheva; C.E. Parker; R.G. Schaaper

**10:12 AM, Room 310 (CC), Platform Session**  
**Mechanistic Insights for Reproductive Toxicology**

A mixture of iprodione and vinclozolin delays the onset of puberty in the male rat in a cumulative manner. C.R. Blystone; C.S. Lambright; J. Furr; C.V. Rider; V.S. Wilson; L.E. Gray

**10:48 AM, Room 310 (CC), Platform Session**  
**Mechanistic Insights for Reproductive Toxicology**

Diet-induced obesity in male mice associated with reduced fertility and potentiation of acrylamide-induced germ cell toxicity. U. Hoffler; R. Bai; G. Kissling; G. Travlos; B.I. Ghanayem

**11:24 AM, Room 309 (CC), Platform Session**  
**Applications in 'Omics Technologies to Problems in Toxicology**

Microarray analysis of calcineurin inhibitor immunosuppressant-mediated nephrotoxicity in the rat. Y. Cui; J. Auman; Q. Huang; S. Jayadev; R.S. Paules

**12:10 PM, Room 307 (CC), Informational Session**  
**Peer Review of Toxicology, Exposure, and Risk Data: Ensuring the Best Science**

Peer review of toxicology, exposure, and risk data: ensuring the best science. P. Wexler; N. Carmichael; S. Chou; M. Dourson; T. Junghans; M.S. Wolfe; R. Menzer; P. Preuss; M. van Raaij

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Alternate Tests and Models I**

Poster Board 221. Environmental mutagenesis and cytochrome P450 activities in the nematode *Caenorhabditis elegans*. M.C. Leung; M. McKeever; A. Berkowitz; W.A. Boyd; A. Bunger; J.H. Freedman; R.L. Walsky; H.M. Stapleton; J.N. Meyer

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Assessment of Chemical Mixtures**

Poster Board 532. *In utero* exposure to the fungicide procymidone and dibutyl phthalate produce dose-additive disruptions of male rat sexual differentiation. A.K. Hotchkiss; K.L. Howdeshell; C.R. Blystone; J. Furr; C.V. Rider; L.E. Gray

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Biological Modeling**

Poster Board 405. Evaluating PBPK modeling techniques using calibration descriptor. J.L. Matthews; M.V. Smith; G.E. Kissling

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
***In Vitro* Methods, Models, and Mechanisms of Hepatotoxicity**

Poster Board 239. Precision-organ slice technology to evaluate liver toxicity of perfluorinated compounds (PFCs). W.T. Haines; S.J. Borghoff; D.E. Malarkey; T.J. Painter; G.S. Travlos; K. Thayer; R.L. Melnick

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Toxicology of Kidney**

Poster Board 415. Subchronic toxicity of beta-picoline in Fisher 344 rats and B6C3F1 mice. M.E. Wyde; S. Elmore; B. Sparrow; M. Hejtmancik

**2:49 PM, Room 321 (CC), Symposium Session**  
**Regulation of Drug Transporters in Different Disease States and its Toxicological and Clinical Implications**

Regulation of ABC transporter expression at the blood-brain barrier. D.S. Miller; A.M. Hartz; B. Bauer

**4:35 PM, Room 307 (CC), Education-Career Development Session**  
**Grantsmanship Forum: Tools and Skills Needed to Navigate Toxicology Research Funding**

Grantsmanship forum: Tools and skills needed to navigate toxicology research funding. S.S. Nadadur; J. Hiendel; R.T. Okita; S. O'connor; E.M. Cannon

**Tuesday, March 17, 2009**

**7:30 AM, Room 308 (CC), Informational Session**  
**NIH Genes, Environment, and Health Initiative: Biomarkers and Biosensors for Detecting Response to Environmental Stress**

NIH Genes, Environment and Health Initiative: Biomarkers and Biosensors for Detecting Response to Environmental Stress. D. Shaughnessy

Overview of the Genes, Environment and Health Initiative-Exposure Biology Program. Daniel Shaughnessy

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Nanotoxicology *In Vitro***

Poster Board 333. Preparation and stability testing of oral fullerene C<sub>60</sub> formulations with particles in the nanometer and micrometer size ranges. S. Graves; T. Cristy; V. Godfrey; C. Smith; N. Walker

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Research in Disposition and Pharmacokinetics**

Poster Board 506. The fate of arbutin in aqueous acid and in rats and mice. J.M. Sanders; D.E. Barlaz; P. Chan; L.T. Burka

Poster Board 522. Disposition of C<sub>60</sub> fullerene after intravenous injection, intratracheal instillation, or inhalation in male F344 rats. Z. Gao; B. Hedtke; J. Marsters; M. Lehman; T. Holmes; J. Lucak; L. Ferguson; J. McDonald; N. Walker

Poster Board 527. Metabolism and disposition of dimethylethanolamine and its effect on the disposition of choline chloride in rodents. L.C. Ferguson; D. Kramer; Z. Gao; L. Thomas; J. McDonald; M. Sanders

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Cardiovascular Toxicity II**

Poster Board 419. Prevention of bleomycin-induced lung fibrosis and dysfunction by prostaglandin E<sub>2</sub>. J.W. Card; J.W. Voltz; L.M. DeGraff; F.B. Lih; G.P. Flake; K.B. Tomer; D.C. Zeldin

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Research in Disposition and Pharmacokinetics**

Poster Board 538. Regulation of efflux transporters at the blood-brain barrier (BBB) by xenobiotics. X. Wang; D. Sykes; D.S. Miller

**9:00 AM, Room 316 (CC), Platform Session**  
**Metal-Induced Carcinogenesis**

Stem cell selection facilitates arsenic-induced malignant transformation via innate resistance, hyper-adaptability and overproduction. E.J. Tokar; W. Qu; J. Liu; W. Liu; J. Phang; M.P. Waalkes

**9:38 AM, Room 316 (CC), Platform Session**  
**Metal-Induced Carcinogenesis**

Cadmium-induced acquisition of cancer stem cell-like characteristics during carcinogenic transformation of human pancreatic ductal cells. W. Qu; E. J. Tokar; A. J. Kim; M. Bell; M. P. Waalkes

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Research in Disposition and Pharmacokinetics**

Poster Board 514. Analytical method validation of 2-methoxy-4-nitroaniline in NTP-2000 and NIH-07 rodent diets. J.W. Algaier; A.K. Clay; G.L. Goodman; A.S. Haynes; O.L. Beverly; K.E. Schnare; S.E. Griffin; V.F. Ault; A. Kazerooni; B.M. O'Brien; P.J. Schebler; R.K. Harris; B. Jayaram; C.S. Smith

Poster Board 517. Analytical method validation of tris(chloropropyl) phosphate, mixture in NTP-2000 and NIH-07 rodent diets. B. Jayaram; G.L. Goodman; S.E. Griffin; A.S. Haynes; A.K. Clay; O.L. Beverly; V.F. Ault; A. Kazerooni; B.M. O'Brien; P.J. Schebler; J.W. Algaier; R.K. Harris; C.S. Smith

Poster Board 519. Characterization of the transport and inhibitory effects of NBuPy-Cl and its structurally related ionic liquids by hOCT2. Y. Cheng; M.J. Hooth; S.H. Wright; I. Sipes

Poster Board 524. Methyltetrahydrofuran (MTHF) brain concentrations following a single intravenous or gavage administration of MTHF to F344 rats and B6C3F1 mice. J.D. Johnson; S. Hong; S. Gibbs; J. Merrill; B. Burbach; S. Graves; V. Godfrey; C. Smith

Poster Board 525. Toxicokinetics of bis-(2-chloroethoxy) methane (CEM) after a single dermal application to F344 Rats and B6C3F1 Mice. V. Godfrey; S. Hong; S. Gibbs; J.D. Johnson; S.W. Graves; B. Burbach; J. Merrill; C. Smith

Poster Board 530. Single intravenous administration toxicokinetic study of bis(2-chloroethoxy)methane using Fischer 344 rats and B6C3F1 mice. S. Gibbs; V. Godfrey; S. Hong; J.D. Johnson; S.W. Graves; B. Burbach; J. Merrill; C. Smith

Poster Board 531. Analytical method development for the extraction and analysis of tris(chloropropyl)phosphate, mixture, 1-chloroacetone and N-acetyl-L-cysteine. P.J. Schebler; A.L. Warren; R.L. Mathias; S.P. Kerns; S.J. Bradford; L.A. Moody; L.L. Haney; R.K. Harris; J.W. Algaier; B. Jayaram; C.S. Smith

**9:48 AM, Room 308 (CC), Platform Session**  
**Advances in Animal and Alternative Models**

Screening of pesticide toxicity using a *C. elegans* high throughput growth assay. W.A. Boyd; M.V. Smith; J.R. Rice; J.H. Freedman

**9:57 AM, Room 308 (CC), Platform Session**  
**Metal-Induced Carcinogenesis**

Tumors and proliferative lesions in mice induced by transplacental inorganic arsenic combined with dimethylarsenic acid in adulthood. M.P. Waalkes; B.A. Diwan

**12:00 PM-1:20 PM, Room 309 (CC), Education-Career Development Session**  
**The Future of Environmental Health Science: Featuring NIEHS Funded Early Career Investigators**

The future of environmental health science: featuring NIEHS funded early career investigators. C. Shreffler; V.S. Vaidya

**12:00 PM-1:15 PM, Room 301 (CC), NIH Brown Bag Lunch**  
**Chairperson: Joel G. Pounds, Pacific Northwest National Laboratory**

Review and grant opportunities at NIEHS

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Bioinformatics and Prediction of Toxicity**

Poster Board 315. Independent validation of gene expression based hepatocarcinogenicity prediction models. S. Auerbach; D. Mav; R. Shah; M.K. Vallant; N.J. Walker; G.A. Boorman; R.D. Irwin

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Genotoxicity I**

Poster Board 226. Micronucleus frequencies and DNA damage in male rats administered methylphenidate HCl (Ritalin) for 28 Days. K.L. Witt; L. Recio; K. Shepard; A. Green; C. Baldetti; J. Winters; J. Davis; W. Caspary; C.A. Hobbs

Poster Board 239. Comparison of baseline and chemical-induced DNA damage in Wistar Han and Fischer 344/N rats. C.A. Hobbs; L. Recio; K. Shepard; C. Baldetti; J. Winters; A. Green; P. Allen; M. Streicker; W. Caspary; K. Witt

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**  
**Bioinformatics and Prediction of Toxicity**

Poster Board 325. Novel classification approach for biomarker identification and carcinogenicity prediction. R. Shah; D. Mav; S. Auerbach; R. Irwin

**1:30 PM-2:30 PM, Room 337 (CC), Exhibitor Hosted Session**  
**National Toxicology Program – Paul Foster, Ph.D. and Dori Germolec, Ph.D.**

NTP criteria for hazard identification in non-cancer studies

**2:08 PM, Room 308 (CC), Platform Session**  
**Advances in Disposition and Pharmacokinetics**

Toxicokinetics of ephedrine and caffeine following administration of ephedrine, caffeine, or Ma Huang. T. Fennell; N.L. Gaudette; B.L. Fletcher; S.D. Cooper; R. Fernando; J. Dunnick; B.J. Collins

**2:30 PM, Ballroom III (CC), Workshop Session**  
**Pesticides and Parkinson's Disease: Implications of New Epidemiology and Exposure Data to Risk Assessment**

Farming and Movement Evaluation Study (FAME): Parkinson's disease in pesticide applicators and their spouses. F. Kamel; C.M. Tanner

**3:21 PM, Room 308 (CC), Platform Session**  
**Advances in Disposition and Pharmacokinetics**

Toxicokinetics of the stereoisomer specific flame retardant Hexabromocyclododecane (HBCD) gamma: effect of dose, time, and repeated exposure. D. T. Szabo; J. J. Diliberto; J. Huwe; L. S. Birnbaum

**Wednesday, March 18, 2009**

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Hypersensitivity and Autoimmunity**

Poster Board 323. ICCVAM test method recommendations for the reduced LLNA (rLLNA): an alternative test method using fewer animals to assess the allergic contact dermatitis potential of chemicals and products. M. Wind; J. Matheson; A. Jacobs; R. Tice; W. Stokes

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Metals - *In Vivo***

Poster Board 412. Comparison of toxicogenomic responses to inorganic and organic mercury in *Caenorhabditis elegans*. M.K. McElwee; J.W. Chou; J.R. Rice; J.H. Freedman

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Risk Assessment Research**

Poster Board 229. Environmental predictors of US county mortality patterns on a national basis. M.P. Chan; R.S. Weinhold; R. Thomas; J.M. Gohlke; C.J. Portier

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Advances in Reproductive Toxicology**

Poster Board 202. Effects of fenvalerate on cell proliferation, apoptosis and collagen I production in human uterine leiomyoma cells and uterine smooth muscle cells. X. Gao; L. Yu; M. Klippel; L. Castro; T. Hermon; A.B. Moore; D. Dixon

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Genetic Polymorphisms**

Poster Board 109. Association of genetic variations in the alpha1-antitrypsin and matrix metalloproteinase genes with lung function decline in a group of firefighters. B. Yucesoy; M. Kurzius-Spencer; V.J. Johnson; K. Fluharty; D.R. Germolec; M.I. Luster; J.L. Burgess

Poster Board 110. Genetic variation in isogenic strains of laboratory mice alters the disposition after acute exposure to [<sup>14</sup>C] benzene. G. A. Knudsen; R. K. Kuester; M. L. Cunningham; I. G. Sipes

**9:00 AM-12:30 PM, Exhibit Hall, Poster Session**  
**Advances in Reproductive Toxicology**

Poster Board 146. An alternate design for the extended one generation reproduction study. P.M. Foster

Poster Board 147. Testing the uterotrophic activity of perfluorooctanoic acid (PFOA) in the immature CD-1 mouse. E.P. Hines; E.A. Gibbs-Flournoy; J.P. Stanko; R. Newbold; W. Jefferson; S.E. Fenton

Poster Board 148. Comparison of the effects of genistein and ethinyl estradiol (EE2) in Sprague Dawley (SD) rats in multigenerational reproductive and chronic toxicity studies. K. Delclos; C.C. Weis; G.R. Olson; T.J. Bucci; P.W. Mellick; J.R. Latendresse; N. Sadovova; B. Thorn; R.R. Newbold

Poster Board 211. Genistein and ethinyl estradiol dietary exposure in multigenerational and chronic studies induce similar proliferative lesions in the mammary gland of male Sprague-Dawley rats. J.R. Latendresse; G.R. Olson; T.J. Bucci; P.W. Mellick; B. Thorn; C.C. Weis; R.R. Newbold; B.K. Delclos

**9:57 AM, Room 309 (CC), Platform Session**  
**Hot Topics in Metal-Induced Neurodegeneration**

Persisting effects of developmental copper exposure in wildtype and metallothionein knockout mice. A. Petro; N. Pollard; H. Sexton; C. Miranda; A. Rastogi; J. Freedman; E.D. Levin

**10:15 AM, Room 316 (CC), Symposium Session**  
**Interactomes and Their Application in Toxicology**

Identification of new biological pathways affected by transition metals. J.H. Freedman

**10:45 AM, Room 316 (CC), Symposium Session**  
**Interactomes and Their Application in Toxicology**

Identifying molecular pathways that modulate environmental and genetic components of complex diseases. J.M. Gohlke; R. Thomas; Y. Zhang; M.C. Rosenstein; A.P. Davis; C. Murphy; C.J. Mattingly; K.G. Becker; C.J. Portier

**12:00 PM-1:20 PM, Room 316 (CC), Featured Session**  
**Chairperson: Michael P. Holsapple, ILSI Health and Environmental Sciences Institute**

Meet the Director of NIEHS, Linda Birnbaum, Ph.D., D.A.B.T, A.T.S

**12:00 PM-1:20 PM, Room 339 (CC), Meeting/Luncheon**  
**Occupational & Public Health Specialty Section (OPHSS)**

Presentation of the OPHSS 2009 Award for Best Manuscript. Recipient Michele LeMerrill sponsored by Linda Birnbaum

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Alternate Tests and Models II**

Poster Board 354. Establishing a historical database for a multi-phased international validation study of a stably transfected estrogen receptor (ER) transcriptional activation (TA) test method. R. Tice; F. Deal; P. Ceger; D. Allen; J. Gordon; J. de Lange; S. Bremer; M. Nakamura; H. Kojima; A. Ono; W. Stokes

Poster Board 415. Evaluating the consistency of the medium throughput *C. elegans* growth assay for toxicity. M. Smith; W.A. Boyd; J.R. Rice; J.H. Freedman; C.J. Portier

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Immunotoxicology**

Poster Board 238. Potential immunotoxicity by 2, 3 butanedione in BALB/C mice. R.P. Frawley; J. Painter; W.G. Lieuallen; T. Masinde; Y. Reboloso; G. Hurlburt; N. Clayton; K.L. White; W. Auttachoat; D.L. Morgan; D.R. Germolec

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Metals - *In Vitro***

Poster Board 311. Arsenic predisposes skin keratinocytes to UV-induced oxidative DNA damage yet enhances their survival. Y. Sun; C. Kojima; C. Chignell; R. Mason; M.P. Waalkes

Poster Board 345. Arsenic biomethylation is obligatory for oxidative DNA damage but not for malignant transformation. C. Kojima; E. Tokar; D. Ramirez; Z. Drobná; M. Styblo; R. Mason; M. Waalkes

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Chemical Carcinogenesis**

Poster Board 109. Impact of life stage and duration of exposure on arsenic-induced proliferative lesions, neoplasia, and gene expression in male C3H mice. G. Nelson; G. Ahlborn; D. Delker; H. Ren; K. Kitchin; C. Corton; M. Waalkes; B. Diwan; J. Allen

Poster Board 112. Human skin carcinomas - analysis of gene mutation differences. X. Li; I. A. Lea; S. Bailey; M. Jackson; J. K. Dunnick

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Immunotoxicology**

Poster Board 229. Independent evaluation of critical windows in immune system development may be necessary to accurately predict developmental immunotoxicity (DIT). K.L. White; D.M. Roesh; T.L. Guo; W. Auttachoat; D.R. Germolec

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Chemical Carcinogenesis**

Poster Board 112. Human skin carcinomas - analysis of gene mutation differences. X. Li; I.A. Lea; S. Bailey; M. Jackson; J.K. Dunnick

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Metals - *In Vitro***

Poster Board 347. The role of PKC consensus sites in MTF-1 transcriptional activation. E.K. Braithwaite

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Inflammation**

Poster Board 530. Cx3cr1 contributes to ozone-induced pulmonary inflammation in the mouse. M. High; H. Cho; R. Wilson; S. Kleeberger; D. Cook

**1:00 PM-4:30 PM, Exhibit Hall, Poster Session**

**Genotoxicity II**

Poster Board 537. Increased formation of glycidamide (GA)-HGB and GA-DNA adducts in diet-induced obese male C57Bl/6J mice. B.I. Ghanayem; M.I. Churchwell; K.A. Woodling; R. Bai; D.R. Doerge; U. Hofferl

**1:30 PM, Room 310 (CC), Platform Session**  
**Signal Transduction and Metal-Induced Toxicity**

The effect of cadmium exposure on calcium homeostasis and signaling pathways. B. Tvermoes; G.S. Bird; W.A. Boyd; J.H. Freedman

**1:30 PM, Room 307 (CC), Platform Session**  
**Bioinformatics and Computational Toxicology**

Physiological and toxicological transcriptome changes in HEPG2 Cells exposed to copper. M. Song; J. Li; J.H. Freedman

**2:08 PM, Room 307 (CC), Platform Session**  
**Bioinformatics and Computational Toxicology**

Incorporation of biochemical interaction network information helps in identification of biologically-relevant pathways and improves the toxicity classification of chemicals. R. Thomas; J. Gohlke; F. Parham; C. Portier

**3:05 PM, Ballroom IV (CC), Symposium Session**  
**Pulmonary Effects of *In Utero* and Early Postnatal Exposure to Arsenic**

Fetal arsenic exposure and adult lung cancer in mice; implications and potential mechanisms. J. Liu

**3:39 PM, Room 310 (CC), Platform Session**  
**Signal Transduction and Metal-Induced Toxicity**

Disrupted polyamine synthesis and cobalamin transport contributes to aberrant methyl metabolism during chronic arsenic exposure. J. Coppin; M.P. Waalkes

**Thursday, March 19, 2009**

**8:30 AM-12:00 PM, Ballroom I (CC), Poster Session**  
**Persistent Organic Compounds**

Poster Board 117. Serum levels of dioxin and dioxin-like compounds in women living in a highly industrialized area of West Virginia. J. J. Diliberto; J. Becker; D. Jude; L. Sirinek; D. G. Patterson; W. Turner; R. Landy; T. Hughes; D. Staats; L. S. Birnbaum

Poster Board 128. Screening-level assessment of risk associated with exposure to PBDEs in vehicles. D. Staskal; L. Birnbaum

Poster Board 129. Results of a new survey show increasing levels of PBDEs in US food. A. J. Schecter; J. A. Colacino; K. Kurunthachalam; S. Yun; O. Pöpke; L. Birnbaum

**8:30 AM-12:00 PM, Ballroom I (CC), Poster Session**  
**Regulations and Policy Implications in Toxicology**

Poster Board 139. ICCVAM/NICEATM/ECVAM/JaCVAM scientific workshop on acute chemical safety. J. Strickland; M. Paris; D. Allen; R. Tice; H. Kojima; M. Wind; P. Prieto; W. Stokes

Poster Board 144. ICCVAM performance standards for the murine Local Lymph Node Assay (LLNA). J. Matheson; M. Wind; A. Jacobs; D. Allen; T. Burns; E. Salicru; J. Strickland; R. Tice; W. Stokes

**8:30 AM-12:00 PM, Ballroom I (CC), Poster Session**  
**Toxicology of Carbon Nanotubes**

Poster Board 357. Inhaled multi-walled carbon nanotubes stimulate a pleural inflammatory response in the lungs of mice. J.C. Bonner; J.P. Ryman-Rasmussen; M.F. Cesta; A.R. Brody; J.K. Shipley-Phillips; J. Everitt; E.W. Tewksbury; O.R. Moss; B.A. Wong; D.E. Dodd; M.E. Andersen