

**2013 Superfund Research Program Annual Meeting  
Baton Rouge, Louisiana  
October 15-17, 2013**

**Job Seeker Poster Session**

**1. Modeling Congener-Specific PCB Inhalation Exposure for Urban and Rural Cohorts in East Chicago, Indiana and Columbus Junction, Iowa**

Authors: Matthew Ampleman, Hu D, Schulz T, DeWall J, Hornbuckle K, Thorne P  
University of Iowa

**2. Application of RNA Sequencing to Detect Fusion Transcripts in Benzene-Exposed Workers**

Authors: Nicholas K. Akers, Lan Q, McHale CM, Zhang L, Thomas R, Smith M  
University of California, Berkeley  
Division of Cancer Epidemiology and Genetics, National Cancer Institute

**3. Mediated Formation of Chlorinated Dioxins and Furans from Combustion-Generated Nanoparticle Surrogates Based on NiO, CuO, and NiO-CuO Nanoparticles Supported on Silica**

Authors: Nuwan Balapitiya, Baltrusaitis J, Dellinger B, McCarley R  
Louisiana State University  
University of Iowa

**4. Ryanodine receptor activity influences polychlorinated biphenyl-induced dendritic arborization**

Authors: Christopher Barnhart, Truong K, Pessah I, Lein P  
University of California, Davis

**5. Development and Application of Species-Specific Third Generation Ah Receptor-Based CALUX cell Lines for High-Throughput Screening**

Authors: Jennifer Brennan, He G, Tsutsumi T, Zhao J, Magiatis P, Denison M  
University of California, Davis  
National Institute of Health Sciences, Tokyo, Japan  
University of Athens, Athens, Greece

**6. Co-Exposure to Low-Dose Model Testicular Toxicants Induces Gene Alterations**

Authors: Natasha Catlin, Huse S, Boekelheide K  
Brown University

**7. Effects of the Electrochemical Remediation on the Permeability of Contaminated Aquifer**

Authors: Ali Ciblak, Nazari R, Alshawabkeh A  
Northeastern University

**8. Analysis of Groundwater and Tap Water for Exposure Assessment of CVOCs and Phthalates**

Authors: Irmario Cotto, Padilla I, Torres P  
University of Puerto Rico

**9. Exposure to Trichloroethylene Metabolites Results Increased Rates of Recombination Repair in Yeast**

Authors: Vanessa De La Rosa, Asfaha J, Fasullo M, Vulpe C  
University of California, Berkeley  
University at Albany, SUNY



**LSU**

**Superfund Research Center**

**2013 Superfund Research Program Annual Meeting**  
**Baton Rouge, Louisiana**  
**October 15-17, 2013**

**10. Sulfate Conjugates Are Urinary Markers of Inhalation Exposure to 4-Chlorobiphenyl (PCB3)**

Authors: Kiran Dhakal, Adamcakova-Dodd A, Lehmler H, Thorne PS, Robertson LW  
University of Iowa

**11. The Association of Mixed Prenatal Metal Exposure on Child Birth Head Circumference and Weight in Bangladesh**

Authors: Nancy Diao, Christiani DC  
Harvard University

**12. Dietary intake and associations with cord blood Cd in two geographic areas in Bangladesh**

Authors: Christine Dobson, Rodrigues E, Kile M, Valeri L, Coull B, Christiani DC  
Harvard University

**13. A Semi-Automated Framework for Yeast Functional Profiling of Chemical Contaminants**

Authors: Brandon D. Gaytan, Proctor M, Vulpe CD  
University of California, Berkeley

**14. Simulating the Groundwater Conditions and Migration of Contaminant in the Vega Alta Karst Aquifer System Based on Historical Climate Data**

Authors: Reza Ghasemizadeh, Yu X, Butscher C, Hellweger F, Padilla, Alshawabkeh A  
Northeastern University

**15. High Affinity Interactions between Human Transthyretin and Polychlorinated Biphenyl Sulfates - Implications for Thyroid Hormone Disruption and the Inhibition of Transthyretin Amyloidosis**

Authors: Fabian Grimm, Lehmler H, Robertson L, Duffel M  
University of Iowa

**16. Implementation of User-Friendly Features in BMEGUI version 3.0 to Model the Covariance of Superfund Surface Water Contaminants Using a River Metric**

Authors: Prahlad Jat, Akita Y, Serre ML  
University of North Carolina, Chapel Hill

**17. An Isotope Dilution Method to Study the Bioavailability of DDTs and PCBs in PV Shelf Superfund Site**

Authors: Fang Jia, Crago JP, Gully J, Schlenk D, Gan J  
University California, Riverside

**18. EPFR Yield Dependence on Metal Concentration**

Authors: Lucy W. Kiruri, Lomnicki S, Khachatryan L, Dellinger B  
Louisiana State University

**19. TCDD-Mediated Impairment of Human Hematopoietic Stem Cells to B Cell Lineage Commitment**

Authors: Jinpeng Li, Phadnis A, Crawford R, Kaminski N  
Michigan State University

**2013 Superfund Research Program Annual Meeting**  
**Baton Rouge, Louisiana**  
**October 15-17, 2013**

**20. Motor, Cognitive, and Mood Dysfunction in a Manganese Exposed Community in South Africa**

Authors: Jessica Lundin, Nelson G, Searles Nielsen S, Hershey T, Checkoway H, Racette B  
University of Washington  
University Witwatersrand  
Washington University St. Louis

**21. Human Pharmacodynamics Of An Environmentally Relevant Dosage of High Molecular Weight PAH Dibenzo (def,p) chrysene: A Biological Application For Liquid Sample Accelerator Mass Spectrometry**

Authors: Erin Madeen, McQuistan T, Ognibene T, Williams D  
Oregon State University

**22. Structure and Global Gene Expression of Dehalococcoides Mccartyi in a TCE Dechlorinating Community within a Completely Mixed Flow Reactor**

Authors: Xinwei Mao, Stenuit B, Polasko A, Alvarez-Cohen L  
University of California, Berkeley

**23. Association of Carcinogenic PAH Emissions with Lung Cancer Mortality Rates On a Global Scale**

Authors: Oleksii Motorykin, Matzke MM, Simonich SM  
Oregon State University

**24. Simultaneous Determination of Parent and Hydroxylated PAHS in Urine and PM2.5 Personal Air Samples C**

Authors: Oleksii Motorykin, Schrlau J, Simonich SM  
Oregon State University

**25. A New Role for Exercise: Examining the Effects of Physical Activity on Polychlorinated Biphenyl-Induced Cardiovascular Disease**

Authors: Margaret Murphy, Eske K, Petriello M, Newsome B, Hennig B, Morris A

**26. Gas phase Initiated Formation and Characterization of Environmentally Persistent Free Radicals(EPFRs) in Cation Exchanged Smectite Clays**

Authors: Ugwumsinachi Godwin Nwosu, Dela Cruz A, Dellinger B, Cook R  
Louisiana State University

**27. Linking Environmental Geochemistry with Bioaccessibility and Human Health Risks of Metals in Soils – A Combination of Spiked Soil, Field Soil and Column Methods**

Authors: Yongmei Shen, Shdo S, Estes E, Zota A  
Harvard University  
Woods Hole Oceanographic Institution

**28. Arsenic In-Situ Immobilization by Magnetite Formation within Contaminated Aquifer Sediments**

Authors: Jing Sun, Chillrud S, Mailloux B, Bostick B  
Columbia University

**29. Characterization of Recombinant PON1 Variants from an E. coli System**

Authors: Stephanie Suzuki, Vu Y, Stevens R, Cole T, Richter R, Furlong C  
University of Washington



**Superfund Research Center**

**2013 Superfund Research Program Annual Meeting**  
**Baton Rouge, Louisiana**  
**October 15-17, 2013**

Merck Research Laboratories Boston

**30. Hypoxia Perturbs Ah Receptor Signaling and CYP1A1 Expression Induced by PCB 126 in Human Cells**

Authors: Sabine U. Vorrink, Severson PL, Futscher BW, Domann FE

The University of Iowa

The University of Arizona

**31. Effects of Cadmium on Olfactory Mediated Behaviors and Molecular Biomarkers in Coho Salmon**

Authors: Chase Williams, Gallagher E

University of Washington

**32. Selenoprotein P regulates 1-(4-Chlorophenyl)-benzo-2,5-Quinone Induced Oxidative Stress and Toxicity**

Authors: Xiao Wusheng, Yueming Z, Prabhat G

The University of Iowa

**33. Preventing cadmium Accumulation in Rice Grains: Investigating Strategies for Food Safety**

Authors: Qingqing Xie; Andrew Copper; Timothy O. Jobe; Julian Schroeder

University of California, San Diego

**34. Polychlorinated biphenyl toxicity is mediated through the cross-talk of Caveolin-1 and Nrf2**

Authors: Michael C. Petriello, Han SG, Newsome BJ, Hennig B

University of Kentucky

**35. Assessing Arsenic Exposure in the Community Surrounding the Iron King Superfund Site**

Authors: Anastasia Sugeng, Beamer P, Klimecki W, Lothrop N, Cox M, Wilkinson S, Loh M

University of Arizona

**36. Immunoanalytical Method for the Sensitive and Specific Detection of BDE-47**

Authors: Candace Bever, Majkova Z, Wang Y, Dechant J, Gee S Hammock B

University of California, Davis

Chinese Academy of Agricultural Sciences

**37. Evaluating Bioavailability of Persistent Organic Compounds via a Trophic Transfer**

Authors: Viet Dang, Kroll K, Supowit S, Halden R, Denslow N

University of Florida

Arizona State University

**38. Prenatal Arsenic Exposure and Blood Pressure in a US Pregnancy Cohort**

Authors: Shohreh F. Farzan, Chen Y, Murphy MA, Karagas MR

Dartmouth University

**39. Environmentally Persistent Free Radicals (EPFRs) In PM<sub>2.5</sub>: Their Contribution to Hydroxyl Radical Formation and Atmospheric Transformation**

Authors: William M Gehling, Jr., Khachatryan L, Dellinger B

Louisiana State University

**2013 Superfund Research Program Annual Meeting**  
**Baton Rouge, Louisiana**  
**October 15-17, 2013**

**40. The Fate of Inhaled <sup>14</sup>C-labelled PCB11 and its Metabolites in Vivo**

Authors: Xin Hu, Adamcakova-Dodd A, Thorne PS  
The University of Iowa

**41. Proteomics Analysis of Biomarkers of Organophosphorus Exposures**

Authors: Judit Marsillach, Hsieh EJ, Richter RJ, MacCoss MJ, Hoofnagle AN, Furlong CE  
University of Washington

**42. Transport Modeling of PCB Emissions from Indiana Harbor and Ship Canal into the Local Atmosphere**

Authors: Andres Martinez, Petrich N, Spak S, Hu D, Carmichael G, Hornbuckle K  
The University of Iowa

**43. Fluorescent Quenching Method for the Detection of Hexa-Valent Chromium**

Authors: Michael D. Scott, Hoang Nguyen K, Trogler WC

**44. Using a Novel Toxicogenetic Screen in Human Haploid Cells to Identify Genes that Modify Susceptibility to Chemical Exposure**

Authors: Hue Shen, Smith MT, Zhang L  
University of California, Berkeley

**45. Variations of the Spatiotemporal Patterns of CVOCs Concentrations in Northern Karst of Puerto Rico**

Authors: Xue Yu, Ghasemizadeh R, Padilla I, Irizarry C, Yegen C; Alshawabkeh A  
Northeastern University

**46. The Incomplete Wood-Ljungdahl Pathway of Dehalococcoides Mccartyi Impacts the Long-Term Growth**

Authors: Wei-Qin Zhuang, Yi S, Bill M, Tang Y, Conrad ME, Alvarez-Cohen L  
University of California, Berkeley  
Washington University in St. Louis  
Lawrence Berkeley National Laboratory

**47. Functionalized Magnetic Nanoparticles for On/Off Binding of Persistent Organic Pollutants from Water Sources**

Authors: Bradley J. Newsome, Gutiérrez A, Hennig B, Hilt JZ, Dziubla T  
University of Kentucky  
(Non-biomedical)