General Poster Session, Thursday 10/17, 8-10 am, Kress Building

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

Candace Bever, Majkova Z, Wang Y, Dechant J, Gee S Hammock B University of California, Davis Chinese Academy of Agricultural Sciences

2. Role of Sediment Iron Mineralogy in Regulating the Long-Term Remediation of Arsenic Contamination

Benjamin C. Bostick, Sun J, Mailloux B, Chillrud S Columbia University

3. The Concentration of Glutathione (GSH) in Human Erythrocytes is a Heritable Trait

Garry R. Buettner, van 't Erve TJ, Wagner BA, Ryckman KK, Raife TJ University of Iowa

4. Prenatal Exposure to Multiple Metals and Associations with Neurodevelopment

Birgit Claus Henn, Bellinger D, Coull B, Mazumdar M, Christiani D, Wright R Harvard University

5. Evaluating Bioavailability of Persistent Organic Compounds via a Trophic Transfer

Viet Dang, Kroll K, Supowit S, Halden R, Denslow N University of Florida Arizona State University

6. 6-OH-BDE-47 Affects Melanin Pigmentation and THRβ mRNA Expression in the Retina of Zebrafish Embryos

Wu Dong, Ferguson PL, Macaulay L, Kwok KWH, Hinton DE, Stapleton HM Duke University

7. Bacterial Quorum Sensing Molecules Modulate PCB-Induced Disruption of Intestinal Epithelial Integrity

Sung Yong Eum, Jaraki D, Andras I, Daunert S, Toborek M University of Miami

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

Shohreh F. Farzan, Chen Y, Murphy MA, Karagas MR Dartmouth University

9. University of Washington Superfund Research Program Community Organization Capacity Needs Assessment

Katie Frevert, Okitika T, Tsuchiya A, Burbacher T University of Washington

10. Investigating Non-Coplanar PCB Tolerance in Atlantic Killfish (Fundulus Heteroclitus) from New BEDF

Erika Fritsch, Stegeman J, Goldstone J, Nacci D, Connon R, Pessah I University of California, Davis Woods Hole Oceanographic Institution Environmental Protection Agency



11. Superfund pollutants, health, and the food we eat: University of Kentucky's Superfund Research Program's Community Engagement Core finds more evidence of their connection

Lisa Gaetke, Thurow A, Hofe C University of Kentucky

12. Measuring Bioavailability of PCBs and DDTs in Sediments

Jay Gan, Jia F, Lin K, Schlenk D RO1

13. Ultrasensitive immunoassays for detecting small toxins with a nanoparticle-assembled photonic crystal

Shirley J. Gee, Han JH, Sudheendra L, Hammock BD, Kennedy IM University of California Davis

14. Discovery of Xenobiotics Associated with Preterm Birth

Roger W. Giese, Shao G, MacNeil M, Wang P, Yao Y Northeastern University

15. Science-initiated Research Translation: An Integral Part of the Columbia University SRP

Meredith L. Golden, Chillrud S, Chai-Onn T, Braman S Columbia University

16. UNC SRP Scientists Connect with Diverse Audiences Using Decision Support Tools, Interactive Exhibits and Epigenetics Training

Kathleen Gray, Yelton S, Serre M, Haine D, Slaughter T University of North Carolina, Chapel Hill

17. Investigator-Led Research Translation at Geophysics Workshop for Groundwater Professionals and Students in Dhaka, Bangladesh

Elizabeth Guzy, Harvey C, Stahl M, Backus A, von Stackelberg K Harvard School of Public Health Massachusetts Institute of Technology

18. Urinary Creatinine: The Grand Enigma - Implications of Its Use as a Urine Dilution Adjustment Factor in Epidemiologic Studies

Megan N. Hall, Liu X, Harper K, Qu M, Graziano J, Gamble MV Columbia University

19. Trichloroethylene Effects in Pregnant Wistar Rats

Iman Hassan, Kumar A, Sun K, Bergin I, Loch-CarusoR University of Michigan

20. Particulate Matter Containing Environmentally Persistent Free Radicals Induce AhR-Dependent Cytokine and Reactive Oxygen Species Production in Human Bronchial Epithelial Cells

Valeria Y. Hebert, Cormier SA, Reed R, Backes W, Dugas TR Louisiana State University



21. Dirty Garden Soil: Best Management Practices for Safe Soil Use in Backyard, Community and Commerical Gardens

Wendy Heiger-Bernays, Barrett P, Kim B Boston University

22. The Fate of Inhaled 14C-labelled PCB11 and its Metabolites in Vivo

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

23. Preparing Disaster Science Responders

Joseph Hughes, Miller A, Remington J, Garantziotis S National Institute of Environmental Health Sciences Worker Education and Training Program

24. Exposure to Crude Oil Burn-Off Particulates Induces Pulmonary Inflammation and Alters Adaptive Immunity

Sridhar Jaligama, Chen Z, Gulle B, Cormier S
University of Tennessee
Louisiana State University
United States Environmental Protection Agency, National Risk Management Research Laboratory

25. Assessment of the Expression Levels of Genes Involved in Metal Detoxification in Killifish Inhabiting a Closed Copper Mine Superfund Site

Dawoon Jung, Cravero A, Lehman R, Cutting E, Jackson B, Stanton B Dartmouth University

26. A Prospective Cohort Study of the Association Between drinking Water Arsenic Exposure and Self-Repor

Molly L. Kile, Rodrigues E, Dobson C, Diao N, Mostofa G; Quamruzzaman Q Oregon State University Harvard University Dhaka Community Hospital

27. Sustainable Reductive Dehalogenation of Persistent Organic Pollutants Using Light

Marc R. Knecht, Zahran EM, Bedford NM, Nguyen MA, Naik RR, Bachas LG University of Miami

28. Preparing Graduate Students in the Sciences to be Communicators

Gretchen Kroeger, Thorsos E, Clark C Duke University

29. Characterization of Estrogen Receptor Alpha in Xenobiotic Response

Benson C. Lu, Li T, Evans RM Salk Institute for Biological Sciences and Howard Hughes Medical Institute



30. Proteomics Analysis of Biomarkers of Organophosphorus Exposures

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

31. Epigenetic Mechanisms Linking Environment to Developmental Outcomes

Carmen Marsit, Maccani J, Koestler D, Lesseur C, Houseman EA, Lester B, Kelsey K Dartmouth University Brown University University of Kansas Oregon State University Women and Infants Hospital of Rhode Island

32. Community Based Outreach: Promotora Designed Transferable Training Modules on Environmental Risk Assessment

Denise Moreno, Morales ML, Morales F, Vasquez S, Heriquez P, Wells N University of Arizona Sonora Environmental Research Institute, Inc.

33. Bioanalytical Research Technologies to Study Nutritional Modulation of Environmental Insults

Andrew J, Morris, Sunkara M, Petriello M, Hennig B University of Kentucky

34. Arsenic species differentially alter Pseudomonas induced immune response in bronchial epithelial cells

Emily Notch, Barnaby R, Coutermarsh B, Tayler V, Jackson B, Stanton B Dartmouth University

35. Arsenic species differentially impact Pseudomonas induced cytokine release in human macrophages.

Emily Notch, Barnaby R, Coutermarsh B, Nymon A, Ashares A, Taylor V, Jackson B, Stanton B Dartmouth University

36. Polychlorinated Biphenyls: From Single RyR1 Channels to Muscle Dysfunction

Isaac N. Pessah, Niknam Y, Lehmler HJ University of California, Davis

37. Partnerships for Environmental Public Health (PEPH) Evaluation Tools

Kristi Pettibone, Drew C National Institute of Environmental Health Sciences

38. The Influence of Electrodes Sequence on Electrochemical Degradation of Trichloroethylene

Ljiljana Rajic, Fallahpour N, Ciblak A, Alshawabkeh A Northeastern University

39. Environmentally Persistent Free Radicals Inhibit Cytochrome P450 Enzymes

James R. Reed; Cawley GF, Ardoin TG, Backes WL



40. Thermodynamic Study of Anthracene + Phenanthrene Solid Mixtures

James Rice, Sandstrom E, Fu J, Suuberg E Brown University

41. Exposure to Metals and Reproductive Hormone Levels in Pregnant Women Living in Northern Puerto Rico

Luis O Rivera-González, Cantonwine DE, Ferguson KK, Jiménez-Vélez B, Crespo-Hernández N, Anzalota Del Toro LV, Alshawabkeh AN, Cordero JF, Meeker JD University of Michigan University of Puerto Rico Northeastern University

42. Evolution of a Robust Tribal-University Research Partnership to Investigate Tribal Exposures and Build Scientific Capacity

Diana Rohlman, Harper B, Harding A, Harris S, Kile M, Anderson K, Simonich S Oregon State University Confederated Tribes of the Umatilla Indian Reservation

43. Research Translation: From the Bench to Benchmarks and Beyond

Madeleine Scammell, Ames J, Miller A, Basra K, Heiger-Bernays W, Ozonoff D Boston University

44. Combined Effects of Dietarily Derived Exposures of Legacy Compounds (DDTs) from Palos Verdes Sediment and Aqueous Exposures of Emerging Contaminants (Bifenthrin) on Steroidogenesis in Male Hornyhead Turbot

Daniel Schlenk, Crago J, Jia F, Gan J University of California, Riverside

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

Michael D. Scott, Hoang Nguyen K, Trogler WC

46. Non-homologous End Joining Plays a Predominant Role in Oxidative Stress Induced Mutagenesis

Vyom Sharma, Collins L, Sun W, Swenberg JA, Nakamura J University of North Carolina, Chapel Hill

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

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

48. PCB Distributions in Marine Coastal Systems and Their Impact on Environmental Microbiomes

Helena Solo-Gabriele, Klaus J, Kourafalou V University of Miami

49. Building an Academic-Community Partnership with a Tribal Government

Authors: Marcella R. Thompson, Spears D, Hoover E, Vanderslice RR Brown University



50. REV1 is Dispensable in O6-Methylguanine-Initiated Mutations, but Essential for Base Excision Repair Intermediate-Mediated Mutagenesis

Authors: Xu Tian, Swenberg JA, Nakamura J University of North Carolina, Chapel Hill

51. TLR4 Signaling is Involved in Brain Vascular Toxicity of PCB153 Bound to Nanoparticles

Authors: Michal Toborek, Zhang B, Choi JJ, Eum SY, Daunert S

University of Miami

52. Exercise Attenuates Changes in the Gut Microbiome Induced by Polychlorinated Biphenyls

Authors: Michal Toborek, Choi JJ, Eum SY, Rampersaud E, Daunert S, Abreu MT

University of Miami

53. A Real-Time Antibody-Based Field Assay to Predict PAH bioaccumulation in Oysters Exposed to Contaminated Sediments

Authors: Michael Unger, Kaattari S, Vogelbein W, Rieger J

Virginia Institute of Marine Science

The Elizabeth River Project

54. Metal Mixtures Exposure and Child Neurodevelopment-Evidence from Rural Bangladesh

Authors: Linda Valeri, Claus Henn B, Quamruzzaman Q, Bellinger D, Christiani D, Mazumdar M

Harvard University

55. A Floating Collaboration: Bringing Superfund Research onto a Learning Barge

Authors: Savannah Volkoff, Kroeger G, Clark C

Duke University

56. The University of Arizona Superfund Research Program: Research Translation in Action at the Iron King Mine and Humboldt Smelter Superfund Site

Authors: Sarah T. Wilkinson, Loh M, Lothrop N, Brusseau ML, Maier RM

University of Arizona

57. 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

58. 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

