POSTER KEY WORDS
Tuesday, December 6, 2016

Air Pollution
5. The impact of measurement error in epidemiologic studies on burden estimates
6. The Center for Research on Early Childhood Exposure and Development (CRECE)
16. Ambient PM2.5 exposure in pregnancy, maternal prenatal antioxidant intakes, and infant autonomic response
23. Prenatal Exposure to Particulate Air Pollution and Anthropometry in Urban Children: Sensitive Windows and Sex Difference
27. Developmental Neurotoxicity of Inhaled Ambient Ultrafine Particle Air Pollution: Parallels with Neuropathological and Behavioral Features of Autism and Other Neurodevelopmental Disorders
28. Air pollution and pulmonary health: Effects of short-term indoor air quality intervention with portable air purifier
40. Development of methods to connect exposure to wildland fire particulate emissions to health outcomes: A case study from San Diego County, 2007
51. Exposure and Toxicity Assessment of EPFRs in Brain
64. Aggravating Factors of Asthma in a Rural Environment (AFARE)
65. Preterm Birth and Potential Economic Benefits of Reduced Maternal Exposure to Fine Particulate Matter
79. Indoor Environmental and Air Quality Assessment in Schools in mid-Atlantic Region
87a. Metabolic Activation of Nitroarenes by Human Aldo-Keto Reductases (AKR1C1-AKR1C3)
87b. Evaluating Cancer Risks for Eastwick: Analysis of Air Toxics and the Clearview Landfill
99. Altered microRNA levels in circulating extracellular vesicles are associated with maternal air pollution exposure during pregnancy
106. Erectile Dysfunction and Exposure to Ambient Air Pollution in a Nationally Representative Cohort of Older Men

118. The Effects of Air Pollution on Severity of Pneumonia in a Metropolitan Area

**Asthma**

15. Whole Health Hula Hooping

55. Air Quality Outreach at Childcare Centers in Asthma Prevalent Philadelphia Neighborhoods

64. Aggravating Factors of Asthma in a Rural Environment (AFARE)

70. Community collaboration addressing cumulative impacts in port-adjacent communities

118. The Effects of Air Pollution on Severity of Pneumonia in a Metropolitan Area

146. A Personal Particulate Matter Exposure Monitor to Support Exposure and Health Studies for Sensitive Groups

**Autism**

27. Developmental Neurotoxicity of Inhaled Ambient Ultrafine Particle Air Pollution: Parallels with Neuropathological and Behavioral Features of Autism and Other Neurodevelopmental Disorders

53. Increased Expression of Fmr1 is a Possible Mechanism Underlying Cd-Mediated Perturbation of Behavior

76. Environment-Wide Association Study in Autism Spectrum Disorder

85. WGBS reveals autism-associated hypomethylation and differentially-methylated regions in umbilical cord blood samples from the prospective MARBLES study

88. Identification of chemicals that mimic transcriptomic signatures associated with autism and other brain disorders.

**Breast Cancer and Cancer Biology**

35. Coupling Stress Responses from Circadian Control Is Associated with Susceptibility to Mammary Carcinogenesis

39. Understanding the relationship between environmental inorganic arsenic and prostate cancer

58. A Novel Bayes Approach for Predicting Breast Cancer Risk Given Family History, with Application to the NIEHS Sister Study

84. Deletion of C/EBPβ in Oncogenic Ras Driven Tumors Results in Rapid p53 Dependent Tumor Regression
Highly fluorinated chemicals, phthalates, and zeranol effects on mammary gland development and pubertal timing in humans and a rodent model: rationale for chemical and dose selection

Effects of pubertal exposure to PFOA, BBP and zeranol on endocrine organs of rats

Reprogramming of long non-coding RNAs (IncRNA) in prostate cancer cells by bisphenol A and its analogues

Children and Prenatal Exposures

The Center for Research on Early Childhood Exposure and Development (CRECE)

Using mobile and digital technology to improve cohort management in the Duke NICHES cohort

Assessing PAH exposure with multiple approaches including silicone wristbands

What Do Child Care Providers Know about Their Role in Protecting Children’s Environmental Health?

Air Quality Outreach at Childcare Centers in Asthma Prevalent Philadelphia Neighborhoods

Elevated fetal cord blood cotinine levels associated with increased DNA methylation at the human metastable epiallele PAX8

The effects of perinatal exposure to phthalates and a high-fat diet on maternal behavior, indices of pup development, and periadolescent behavior

Prenatal Exposures to Bisphenol A and High Fat Diets are Associated with Increased Lipid Oxidation in Mice and Humans

Second Trimester Amniotic Fluid Bisphenol A Concentration is Associated with Decreased Birth Weight in Term Infants

Prenatal exposure to di-(2-ethylhexyl) phthalate alters fertility in female mice

Center for Children’s Health, the Environment, Microbiome, and Metabolomics (C-CHEM2)

Prenatal phthalate exposures in relation to child temperament at 12 and 24 months

Center for Children’s Health, the Environment, The Microbiome and Metabolomics (C-CHEM2): Engaging Stakeholders, Fostering Relationships, and Creating a Social Media Campaign

In Utero Exposure to Bisphenol A Induces Reprogramming of Mammary Development and Tumor risk in MMTV-erbB-2 Transgenic Mice

Citizen Science

Toxic Realities and their Ramifications for Community Engagement

Communities Actively Researching Exposure Study (CARES): An Academic-Community Research Partnership to address Manganese Exposure in Children
60. Using Hollywood to make protective policy on chemicals

81. Collaborative Research to Action: Empowering an exposed community

**Community Engagement**

9. Social determinants of risk and attitudes about asbestos in a Superfund Environmental Justice community

12. Using mobile and digital technology to improve cohort management in the Duke NICHES cohort

13. Expanding environmental health knowledge of health specialists to facilitate home visit education of clients

15. Whole Health Hula Hooping

19. NYU: Community engagement, communications and global environmental health

22. Private well arsenic-testing outreach-pilot targets children, unborn babies through health care providers

24. Toxic Realities and their Ramifications for Community Engagement

33. Communicating Environmental Risk: A Community Assessment Survey

37. What Do Child Care Providers Know about Their Role in Protecting Children’s Environmental Health?

38. Pathways to Health in Vulnerable Populations: CBPR as a Health Screening Intervention

41. The Superfund Process: a Shared Journey the Duwamish River Cleanup Coalition & UW Superfund Research Program’

42. Neighborhood characteristics and health outcomes: Evaluating the association between socioeconomic status, tobacco store density, and morbidity in Baltimore City

48. Strengthening Capacity of Public Health Professionals to Inform Residents about Environmental Health Hazards in Homes

49. Environmental Health high school curriculum, a collaboration between the University of Washington EDGE Center and ATHENA educators

52. Communities Actively Researching Exposure Study (CARES): An Academic-Community Research Partnership to address Manganese Exposure in Children

55. Air Quality Outreach at Childcare Centers in Asthma Prevalent Philadelphia Neighborhoods

67. MI-Environment: Promoting Climate-Related Health within Michigan’s Vulnerable Communities

70. Community collaboration addressing cumulative impacts in port-adjacent communities
71. Evaluating the capacity building outcomes of the HERCULES community grant program.

72. The Center for Research on Environmental and Social Stressors in Housing Across the Life Course

81. Collaborative Research to Action: Empowering an exposed community

89. Coping with risk and uncertainty: Household water and environmental health in the Ethiopian Rift Valley

93. Translating Arsenic Science Via Website Development Provides a Paradigm for Addressing Cutting Edge Science and Uncertainty

101. Community Action to Promote Healthy Environments

112. Community Engagement and Research Translation in Puerto Rico’s Northern Karst Region: The PROTECT Superfund Research Program

119. Center for Children’s Health, the Environment, The Microbiome and Metabolomics (C-CHEM2): Engaging Stakeholders, Fostering Relationships, and Creating a Social Media Campaign

124. Understanding how to communicate health information to adolescents in Northern Manhattan and the South Bronx

125. The Case for Universal Screening of Private Well Water Quality in the U.S.: Evidence from Arsenic

Data Science and “omics”

30. Bayesian non-parametric analysis of mixed-scale densities from epidemiologic studies

44. Redox proteomics and metabolomics of environmental metals, cadmium and manganese, and association with human health

47. Mechanism of rotenone mitotoxicity in *C. elegans*: role of the glyoxylate pathway

62. Universal Exposure Surveillance: The Million Metabolome for Exposome Research

111. Computational metabolomics: a framework for systematic study of the exposome

113. Metabolomics in Nonalcoholic Fatty Liver Disease: Pathway to Precision Medicine

Epidemiology

1. Dietary Exposure of Pregnant Women in Suriname to Pesticides

3. PCB Concentrations in Women Based on Breast Feeding History: NHANES 2001-2004

5. The impact of measurement error in epidemiologic studies on burden estimates

6. The Center for Research on Early Childhood Exposure and Development (CRECE)
7. Growth acceleration: Examining associations of in utero exposures to BPA and phthalates on dynamics of infant’s BMI growth

8. The Impact of Pesticides on Latino Farmworkers’ Functional Brain Networks

10. The Study of Asian Women, their Offspring’s Development and Environmental Exposures: The SAWASDEE Birth Cohort Study in Northern Thailand

12. Using mobile and digital technology to improve cohort management in the Duke NICHES cohort

16. Ambient PM2.5 exposure in pregnancy, maternal prenatal antioxidant intakes, and infant autonomic response

23. Prenatal Exposure to Particulate Air Pollution and Anthropometry in Urban Children: Sensitive Windows and Sex Difference

30. Bayesian non-parametric analysis of mixed-scale densities from epidemiologic studies

31. Characterization of PBDE Exposure in Puerto Rican Pregnant Women: A Preliminary Analysis

32. Assessing PAH exposure with multiple approaches including silicone wristbands

36. Prenatal Arsenic Exposure in Relation to Maternal and Infant Cardiometabolic Outcomes: Findings from the New Hampshire Birth Cohort Study

42. Neighborhood characteristics and health outcomes: Evaluating the association between socioeconomic status, tobacco store density, and morbidity in Baltimore City

45. Fluoride bioaccumulation and enamel fluorosis from chronic exposure through drinking water

57. Serum 1,1-dichloro-2,2 bis(4-chlorophenyl)ethane (p,p'-DDE) concentrations in former farmworkers from the Lake Apopka region of Central Florida

63. Influence of in utero exposure to metal mixtures on the Human Placental Gene Network and Fetal Growth

64. Aggravating Factors of Asthma in a Rural Environment (AFARE)

65. Preterm Birth and Potential Economic Benefits of Reduced Maternal Exposure to Fine Particulate Matter

66. Determining Male Reproductive Toxicity of Bolus Versus Continuous Exposure to Trichloroethylene.

72. The Center for Research on Environmental and Social Stressors in Housing Across the Life Course

75. The Caribbean Consortium for Research in Environmental and Occupational Health: Examining the Impact of Neurotoxicant Exposures on Maternal and Child Health in Suriname
85. WGBS reveals autism-associated hypomethylation and differentially-methylated regions in umbilical cord blood samples from the prospective MARBLES study

91. A Sri Lanka Pilot Study of Cookstove Exposures and Respiratory Health Effects

92. Second Trimester Amniotic Fluid Bisphenol A Concentration is Associated with Decreased Birth Weight in Term Infants

96a. Low-level methylmercury exposure through rice ingestion in a cohort of pregnant mothers in rural China

96b. Maternal methylmercury exposure through rice ingestion and offspring neurodevelopment: A prospective cohort study

99. Altered microRNA levels in circulating extracellular vesicles are associated with maternal air pollution exposure during pregnancy

102. Early-life insecticide exposure and motor function infants

106. Erectile Dysfunction and Exposure to Ambient Air Pollution in a Nationally Representative Cohort of Older Men

114. Childhood polybrominated diphenyl ether (PBDE) exposure and neurobehavior in children at 8 years

115. Analyzing patterns of co-exposure

120. General Suspect Screening for Potential Novel Chemicals in Pregnant Women in Northern California

121. Arsenic Exposure and Impaired Glucose Homeostasis: The Role of Adequate vs Elevated Folate Intake

**Global**

1. Dietary Exposure of Pregnant Women in Suriname to Pesticides

10. The Study of Asian Women, their OffSpring’s Development and Environmental Exposures: The SAWASDEE Birth Cohort Study in Northern Thailand

19. NYU: Community engagement, communications and global environmental health

28. Air pollution and pulmonary health: Effects of short-term indoor air quality intervention with portable air purifier

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121. Arsenic Exposure and Impaired Glucose Homeostasis: The Role of Adequate vs Elevated Folate Intake

**Immunology and Inflammation**

2. \(\Omega\)-Hydroxylation Activity of Cytochrome P450 4A11 is Attenuated in the Presence of Hydrogen Peroxide: Potential Relevance to Hypertension

44. Redox proteomics and metabolomics of environmental metals, cadmium and manganese, and association with human health

50. Reduced Lung Function in Adult Mice after Exposure to Environmentally Persistent Free Radicals is Preceded by Vascular Injury

73. Immune Dysregulation and Autoimmune Responses in Tribal Communities Exposed to Mine Waste and Metal Contaminants

74. Aryl Hydrocarbon Receptor (AHR) Activation by 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Impairs Early Human B Lymphopoiesis

90. Inflammasome activation as a biological outcome of mitochondrial toxicants.

**Microbiome**

98. Center for Children’s Health, the Environment, Microbiome, and Metabolomics (C-CHEM2)

110. Effects of nicotine on the gut microbiome and its metabolic functions

119. Center for Children’s Health, the Environment, The Microbiome and Metabolomics (C-CHEM2): Engaging Stakeholders, Fostering Relationships, and Creating a Social Media Campaign

**Nano**

104. Nano-waste: Environmental health and safety (EHS) implications during thermal decomposition/incineration of nano-enabled products

126. A Quantitative CouNT Assay for Carbon Nanotube Detection

**Neurodevelopment/Neurodegeneration**

8. The Impact of Pesticides on Latino Farmworkers’ Functional Brain Networks
10. The Study of Asian Women, their OffSpring’s Development and Environmental Exposures: The SAWASDEE Birth Cohort Study in Northern Thailand

21. Mitochondrial Neurotoxic Pesticides Promote Epigenetic Dysregulation by Histone Hyperacetylation in Dopaminergic Neurons

27. Developmental Neurotoxicity of Inhaled Ambient Ultrafine Particle Air Pollution: Parallels with Neuropathological and Behavioral Features of Autism and Other Neurodevelopmental Disorders

34. Behavioral and sociodemographic predictors of exposure to multiple chemicals associated with ADHD-related behavior in a low income community

43. Low-level embryonic exposure to flame retardants and related compounds causes neurobehavioral impairment in zebrafish

51. Exposure and Toxicity Assessment of EPFRs in Brain

52. Communities Actively Researching Exposure Study (CARES): An Academic-Community Research Partnership to address Manganese Exposure in Children

68. Associations of Early Life Water and Dietary Arsenic Exposure with Subsequent Growth and Neurodevelopment

75. The Caribbean Consortium for Research in Environmental and Occupational Health: Examining the Impact of Neurotoxicant Exposures on Maternal and Child Health in Suriname

82. Paraoxonases are important in modulating metal-induced oxidative stress

83. Prenatal lead and stress effects on multiple neurotransmitters measured in several brain regions

96b. Maternal methylmercury exposure through rice ingestion and offspring neurodevelopment: A prospective cohort study

102. Early-life insecticide exposure and motor function infants

114. Childhood polybrominated diphenyl ether (PBDE) exposure and neurobehavior in children at 8 years

**Occupational Health**


26. Training Products on Biodisasters for Skilled Support Personnel

**Reproductive System**

18. Endometriosis and Environmental Endocrine Disrupting Chemical Exposure: Bisphenol AF potentiates the development of endometriosis in a mouse model

66. Determining Male Reproductive Toxicity of Bolus Versus Continuous Exposure to Trichloroethylene.
Sensors, technologies and Resources
77. Fluorescence Assays for Detection of Arsenic in Water and Foodstuff
78. Dual-biofilm reactive barriers: Field tests of passive destruction of chlorobenzenes in discharging groundwater and wetland sediment
86. hiPSCs-CM, new platform to study the effect of environmental toxins on cardiac fibrosis
108. A novel fluorescent protein based PIG-A mutation assay
117. Accurate quantification of specific biomarkers for mesothelioma

Toxicology
4. Modulating the Placental Transport of an Estrogenic Mycotoxin through Genetics and Lipid Raft Signaling
11. Enhanced bioaccumulation of arsenic in aquatic food webs of contaminated, weakly stratified lakes in the Puget Sound lowland
14. Coal combustion residual (CCR) uptake and oxidative stress profiles in fathead minnows following dietary exposure to biofilm and plankton collected from a CCR-impacted lake
17. Heavy Metal Analysis of Potable Water Sources: An Educational Activity to Introduce Undergraduate Students to Toxicology
43. Low-level embryonic exposure to flame retardants and related compounds causes neurobehavioral impairment in zebrafish
46. Is phytoremediation a good solution for remediation of asbestos contaminated sites?
54. In-Vitro Development of a Targeted Mass Spectrometry Protein Assay to Identify Early Stages of Pulmonary Response to Injury
87a. Metabolic Activation of Nitroarenes by Human Aldo-Keto Reductases (AKR1C1-AKR1C3)
87b. Evaluating Cancer Risks for Eastwick: Analysis of Air Toxics and the Clearview Landfill
104. Nano-waste: Environmental health and safety (EHS) implications during thermal decomposition/incineration of nano-enabled products
105. Toxicity Testing of Black Cohosh Extract, a Popular Botanical Product: from Tox21 qHTS Assays to Human Biomonitoring
108. A novel fluorescent protein based PIG-A mutation assay
111. Computational metabolomics: a framework for systematic study of the exposome
116. Exposure to Production-Related Contaminants in Bovine Milk and the Impact of Organic vs. Conventional Production Methods

122. Association of groundwater constituents with distance to unconventional gas wells and topography in NE Pennsylvania

126. A Quantitative Count Assay for Carbon Nanotube Detection

**Water Contaminants and Remediation**

29. THE EFFECTS OF MULTIPLE ENVIRONMENTAL FACTORS ON THE BIOACCUMULATION OF MERCURY IN AN ESTUARINE AMPHIPOD

41. The Superfund Process: a Shared Journey the Duwamish River Cleanup Coalition & UW Superfund Research Program

46. Is phytoremediation a good solution for remediation of asbestos contaminated sites?

78. Dual-biofilm reactive barriers: Field tests of passive destruction of chlorobenzenes in discharging groundwater and wetland sediment

95. Fate and transport of metals on Native American lands
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**Air Pollution**
142. Towards the Quantitative Apportionment of Personal Exposure to Strong Sources of Household Air Pollution
156. The environmental Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE)
193. Air Pollutant Quinones Impair Mitochondrial Function in Human Airway Epithelial Cells Using Seahorse Extracellular Flux Technology
210. Exposure to Particulate Matter Air Pollution and Risk of Multiple Sclerosis in Two Large Cohorts of US Nurses
240. China national ambient air quality standard and air quality improvement after Its Implementation

**Asthma**
146. A Personal Particulate Matter Exposure Monitor to Support Exposure and Health Studies for Sensitive Groups
156. The environmental Benefits Mapping and Analysis Program—Community Edition (BenMAP-CE)
179. Adjuvant Effects of Multi-walled Carbon Nanotube Sensitization with House Dust Mite Allergen Lead to an Exaggerated Asthmatic Phenotype in Mice
181. Radical containing combustion derived particulate matter activate aryl hydrocarbon receptor and enhance Th17 pulmonary inflammation
218. Mouse food as a source of PAH contamination
225. Task-Based Analysis of Black Carbon Exposure in Midwest Farmers during Harvest
230a. Estimating and Valuing Health Impacts of Formaldehyde Exposure to Improve Decision-Making
231. In Utero Epigenetic Programming and Asthma Pathogenesis

**Autism**
223. Temporal Trends and Variability of Phthalate Exposure among Pregnant Women in a High-Risk ASD Pregnancy Cohort
251. Placental DNA Methylation in Relation to Maternal Periconceptional Prenatal Vitamin Use and Child Outcomes in the MARBLES Prospective Autism Study
Breast Cancer and Cancer Biology
147. Assessing the impact of environmental toxicants on Kras-mediated lung cancer initiation and progression
151. Methods development for analysis of Ambler, PA death certificates to determine how asbestos related diseases may have been recorded over time
170. Long Noncoding RNA LincRNA-p21 is the Major Mediator of UVB-Induced and p53-Dependent Apoptosis in Keratinocytes
174. Exposure to Flame Retardant Chemicals in the Home and Increased Risk for Papillary Thyroid Cancer
197. Novel Bisphenol A-related biomarkers for endometrial cancer prognosis
203. Arsenite and cadmium promote the development of mammary tumors
205. HUWE1 interacts with PCNA to alleviate replication stress
207. The Temporal Relationship Between Application of Personal Care Products and Blood Serum Concentrations of 1,3,4,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-cyclopenta[g]benzopyran (HHCB)
213. Investigating the Relationship between Perfluorooctanoate and Body Mass Index in Young Girls in the Greater Cincinnati and San Francisco Bay Area
215. Nitrate Ingestion from Drinking Water and Diet and Pancreatic Cancer among Postmenopausal Women
222. An AHR-mediated Amplification Loop that Enforces Cell Migration in Triple Negative Human Breast Cancer Cells
242. Asbestos manufacturing locations and geographic clustering of mesothelioma among residents of Pennsylvania

Children and Prenatal Exposures
131. In utero pyrethroid pesticide exposure and child cognitive development from 6 to 36 months in the MARBLES longitudinal cohort
153. Associations of prenatal exposure to phthalates and bisphenol A with measures of cognitive function in 7.5-month-old infants participating in the Illinois Kids Development Study (I-KIDS)
155. Placental expression of IFNγ and TNF-superfamily receptors associated with maternal cadmium and selenium biomarkers
160. Effects of prenatal tobacco smoke exposure on attention regulation and language acquisition in early childhood
| 162. | Exposure to Disaster, Neighborhood Environmental Characteristics, and their Associations with Behavioral Difficulties in Children |
| 164. | Hepatic glutathione adduction and depletion by plant toxin biliatresone supports environmental etiologies of biliary atresia |
| 166. | Stunting is associated with blood lead concentration among Bangladeshi children aged 2-3 years |
| 169. | Developmental Cadmium Exposure Causes Delayed Zebrafish Otolith Formation |
| 173. | Translational Research at the Columbia Center for Children’s Environmental Health |
| 175. | Maternal Nutrition and Early Childhood Behavioral Outcomes in NEST |
| 183. | Prenatal phthalate exposure, childhood IQ, and working memory in the Mount Sinai Children’s Environmental Health Cohort |
| 202. | First trimester blood cadmium and lead levels are associated with cardiometabolic risk markers in children |
| 213. | Investigating the Relationship between Perfluorooctanoate and Body Mass Index in Young Girls in the Greater Cincinnati and San Francisco Bay Area |
| 229. | Time after Mother’s day flower harvest and children’s health: Potential short-term neurobehavioral alterations associated with pesticide exposures |
| 246. | Early life exposure to bisphenol A (BPA) results in dose-, generation-, and sex-specific adverse physiological outcomes in adulthood |

**Community Engagement**

| 129. | UC Davis Environmental Health Science Center Community Outreach & Engagement: Dimensions of Engaged Research |
| 132. | Examining the Feasibility of Engaging Community Navigators to Promote Residential Radon Testing and Follow-up among African American and Latino Women attending a Women’s Health Awareness Program in North Carolina |
| 139. | Integrating a Tailored CBPR Curriculum to Address Environmental Health Science Literacy and Disparities in Marginalized Communities |
| 150. | SafetyNEST: Transforming Prenatal Care for Healthier Babies |
| 154. | Community Outreach and Translation Initiatives from the Columbia Center for Children’s Environmental Health |
| 158a. | The Teen Research and Education in Environmental Science (TREES) summer program for high school students |
158b. Short Term Educational Experiences for Research (STEER) program for undergraduate students

159. Translational Science in the Latin American and Caribbean Region: PAHO Foundation Approach to Addressing Environmental Health Disparities in the Region

168. Building Capacity for Impacted Communities to Understand and Respond to Well Water Contamination in North Carolina

182. Communicating Research with Infographics

191. The Dangers Behind The Label

194. Using the Mental Models Approach for Arsenic Risk Communication: Creation of an Expert Model

195. Communicating Cumulative Health Risks to the Community in Chester, PA

201. Engaging Community Gardeners in Reducing Soil Contamination and Pesticide Exposures in North Carolina

204. Increasing environmental health literacy via A Story of Health multimedia eBook and continuing education course

241. Translating CIRCLE Research to the Public using an Interactive Infographic Web Page

249. Evaluating product labels and ingredient composition of nail polishes to inform safer alternatives

252. Bending the Curve: Educating pregnant women, their families, and medical trainees regarding environmental impacts on reproduction

Data Science and “omics”

136. Gentamicin Resistance in Campylobacter from Conventionally-Grown Turkeys in Eastern North Carolina

138. miRNAs as Common Regulators of the Transforming Growth Factor (TGF)-β Pathway in the Preeclamptic Placenta and Cadmium-treated Trophoblasts: Links between the Environment, the Epigenome and Preeclampsia

157. Integration of Multi-Omics Data Reveal Dynamic Oxidative Stress Responses to Manganese in Human SH-SY5Y Neuroblastoma Cells

171. Metabolomic Responses to Phthalate Treatment in a Placental Cell Model (BeWo): Preliminary Analysis and Future Directions

189. Survival analysis with measurement error in a cumulative exposure variable: radon progeny in relation to lung cancer mortality

211. Functional genomics of heavy metal resistances in the foodborne pathogen Listeria monocytogenes.

212. The PhenX Toolkit: Standard Phenotype and eXposure measures for pregnancy research

233. Chromatographic Performance with High Resolution Metabolomics in Human Exposome Research

243. Genetic contribution to variation in DNA methylation at maternal smoking-sensitive loci in exposed neonates

**Epidemiology**

127. The Puerto Rico Testsite for Exploring Contamination Threats (PROTECT) Program

131. In utero pyrethroid pesticide exposure and child cognitive development from 6 to 36 months in the MARBLES longitudinal cohort

134. Pediatric Phthalate and Phenol Exposure Profile and Potential Impacts on Pubertal Timing in Chilean Girls

143. Prenatal PBDE exposure and child neurodevelopment in the HOME Study

155. Placental expression of IFNγ and TNF-superfamily receptors associated with maternal cadmium and selenium biomarkers

160. Effects of prenatal tobacco smoke exposure on attention regulation and language acquisition in early childhood

166. Stunting is associated with blood lead concentration among Bangladeshi children aged 2-3 years

167. Low-dose arsenic disrupts innate immune signaling in human primary bronchial epithelial cells

172. The impacts of short-term temperature exposures on risk of sudden cardiac death in women

180. The impact of essential trace elements in follicular fluid and urine on IVF outcomes; a pilot study

183. Prenatal phthalate exposure, childhood IQ, and working memory in the Mount Sinai Children’s Environmental Health Cohort

190. Adverse birth outcomes associated with exposure to informal e-waste recycling metal mixture exposure

200. A cross-disciplinary evaluation of evidence for multipollutant effects on cardiovascular disease

202. First trimester blood cadmium and lead levels are associated with cardiometabolic risk markers in children

210. Exposure to Particulate Matter Air Pollution and Risk of Multiple Sclerosis in Two Large Cohorts of US Nurses
217. Serum Pesticide Levels and Cognitive Function in Elderly Individuals Differ by Race/Ethnicity: Potential Role in Health Disparities in Alzheimer Disease

219. Inorganic arsenic levels in rice are correlated with urinary arsenic: A pilot study quantifying aggregate arsenic exposure in the Health Effects of Arsenic Longitudinal Study (HEALS)

221. Independent and Interactive Effects of Prenatal Cotinine Exposure and Maternal Depression on Birthweight

250. Bayesian Belief Networks in Environmental Health Risk Assessment: Advancing Dose-Response Methodology

Global

134. Pediatric Phthalate and Phenol Exposure Profile and Potential Impacts on Pubertal Timing in Chilean Girls

140. Impact of ferromanganese alloy plants on household dust exposures: characterizing manganese and additional metals of concern

186. Global Environmental Health and NIEHS

229. Time after Mother’s day flower harvest and children’s health: Potential short-term neurobehavioral alterations associated with pesticide exposures

244. The Contribution of Mercury Exposure and Diet to Child Immune Status in Communities Impacted by Regional Gold Mining in Madre de Dios, Peru

Microbiome

133. Cadmium exposure perturbs the gut microbiome and its metabolic profile in mice

145. Arsenic exposure increases pathogenicity of gut bacteria

161. Metagenomics Analysis Reveals Compound-Specific Impacts of Organophosphate Malathion and Carbamate Aldicarb on Gut Microbiome and its Functional Capacity

Neurodevelopment/Neurodegeneration

143. Prenatal PBDE exposure and child neurodevelopment in the HOME Study

148. Sensation of Ultraviolet Radiation in C. elegans

153. Associations of prenatal exposure to phthalates and bisphenol A with measures of cognitive function in 7.5-month-old infants participating in the Illinois Kids Development Study (I-KIDS)

196. Disposition of Chiral Polychlorinated Biphenyls in Lactating Mice and Their Offspring: Implications for PCB Developmental Neurotoxicity

214. Design of the Agricultural Health Study of Memory in Aging
217. Serum Pesticide Levels and Cognitive Function in Elderly Individuals Differ by Race/Ethnicity: Potential Role in Health Disparities in Alzheimer Disease

220. Manganese Promotes α-Synuclein Protein Misfolding, Exosome-Mediated Release of Protein Aggregates and Neuroinflammation: Relevance to Translational Research in Environmental Metal Neurotoxicology

229. Time after Mother’s day flower harvest and children’s health: Potential short-term neurobehavioral alterations associated with pesticide exposures

Nano
152. STAT1 Regulates Pulmonary Fibrosis in Mice after Exposure to Multi-Walled Carbon Nanotubes through Suppression of TGF-β1 Production and Signaling

179. Adjuvant Effects of Multi-walled Carbon Nanotube Sensitization with House Dust Mite Allergen Lead to an Exaggerated Asthmatic Phenotype in Mice

208. Dynamics and Aggregation of Asbestos in Water

247. Differential Genetic Susceptibility to Lung Inflammatory and Toxicity Changes in Carbon Nanotube Exposures and the Associated Gene Networks

Immunology and Inflammation
137. Ozone exposure modeled across primary cell donors reveals the role of MAPK signaling in governing response heterogeneity and inflammatory adaptation

149. Pathophysiologic Mechanisms Underlying Cardiorespiratory Effects of Ozone in Healthy Adults

167. Low-dose arsenic disrupts innate immune signaling in human primary bronchial epithelial cells

181. Radical containing combustion derived particulate matter activate aryl hydrocarbon receptor and enhance Th17 pulmonary inflammation

220. Manganese Promotes α-Synuclein Protein Misfolding, Exosome-Mediated Release of Protein Aggregates and Neuroinflammation: Relevance to Translational Research in Environmental Metal Neurotoxicology

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247. Differential Genetic Susceptibility to Lung Inflammatory and Toxicity Changes in Carbon Nanotube Exposures and the Associated Gene Networks

Occupational Health
192. Expanding Knowledge of OEH in the Gulf Coast Region

206. A Diverse NIEHS Worker Training Program and Evaluating its Effectiveness
225. Task-Based Analysis of Black Carbon Exposure in Midwest Farmers during Harvest
236. Nonlinear Manganese Accumulation in the Brain Tissue of Welders
237. Training Research Responders for Emergency Operations (TREO)

Reproductive System
135. TCDD Alters Sex Ratio Determining Gene Expression in Mouse Testis
138. miRNAs as Common Regulators of the Transforming Growth Factor (TGF)-β Pathway in the Preeclamptic Placenta and Cadmium-treated Trophoblasts: Links between the Environment, the Epigenome and Preeclampsia
197. Novel Bisphenol A-related biomarkers for endometrial cancer prognosis
224. Interaction between mono-(2-ethylhexyl) phthalate and all-trans retinoic acid in rat fetal testis in vitro

Sensors, Technologies and Resources
130. Evaluating the performance of gas sensors over a 1 year period in Oakland, CA
141. NextGenSS - Putting next generation sensors and scientists in practice to reduce wood smoke in a highly impacted, multicultural rural setting
142. Towards the Quantitative Apportionment of Personal Exposure to Strong Sources of Household Air Pollution
146. A Personal Particulate Matter Exposure Monitor to Support Exposure and Health Studies for Sensitive Groups
165. Economic Analysis Resources for Environmental Health Researchers
176. Diffusive Gradient in Thin-Film Passive Samplers as Indicators of Mercury Bioavailability and Methylation Potential in Sediments
184. Characterizing the Adipogenic Potential of Indoor Contaminants and Household Dust Using 3T3-L1 Cells
187. NIEHS Institutional Training Program Outcomes and Impacts
226. Oceans and Human Health: Harmful algal bloom dynamics and mechanisms of toxin action
227. Sub-slab depressurization systems for vapor intrusion mitigation - some aspects of design
238. Identification of Environmental Chemicals that Elevate 7-Dehydrocholesterol Levels Utilizing Predictive Modeling
245. Measuring the external organic chemical exposome using non-selective passive sampling devices and high-resolution chemical analysis

**Toxicology**

144. Patterns of mercury and organic co-contaminants in marine and freshwater fish

167. Low-dose arsenic disrupts innate immune signaling in human primary bronchial epithelial cells

193. Air Pollutant Quinones Impair Mitochondrial Function in Human Airway Epithelial Cells Using Seahorse Extracellular Flux Technology

220. Manganese Promotes α-Synuclein Protein Misfolding, Exosome-Mediated Release of Protein Aggregates and Neuroinflammation: Relevance to Translational Research in Environmental Metal Neurotoxicology

**Translational**

154. Community Outreach and Translation Initiatives from the Columbia Center for Children’s Environmental Health

159. Translational Science in the Latin American and Caribbean Region: PAHO Foundation Approach to Addressing Environmental Health Disparities in the Region

173. Translational Research at the Columbia Center for Children’s Environmental Health

216. Translational Science: The Spectrum of Participation and the Role of the Stakeholder in Theory and Practice

220. Manganese Promotes α-Synuclein Protein Misfolding, Exosome-Mediated Release of Protein Aggregates and Neuroinflammation: Relevance to Translational Research in Environmental Metal Neurotoxicology

241. Translating CIRCLE Research to the Public using an Interactive Infographic Web Page

**Water Contaminants and Remediation**

127. The Puerto Rico Testsite for Exploring Contamination Threats (PROTECT) Program

128. Fish from the New Bedford Harbor Superfund Site exhibit resistance to both ortho- and non-ortho-substituted PCBs

163. Effect of Source Material on PAH Bioavailability to Humans and Ecological Receptors

181. Radical containing combustion derived particulate matter activate aryl hydrocarbon receptor and enhance Th17 pulmonary inflammation

188. Metagenomic analysis of mobile elements and phage in trichloroethene (TCE) dechlorinating communities
| 201. | Engaging Community Gardeners in Reducing Soil Contamination and Pesticide Exposures in North Carolina |
| 209. | Assessment of Links Between Contamination in Karst Groundwater and Water Quality in Drinking Water Systems |
| 228. | Impact of Hospital Waste on Drinking Water Quality: Disinfection Byproduct Formation Implications from Anthropogenic Contributions |
| 232. | Mercury in suspended particulates from the Penobscot Estuary in Maine |
| 234. | Using reverse-isotopic labeling of Lymnaea stagnalis to understand Cu bioavailability |
| 235. | Development of Urinary Biomarkers for Human Exposure to Petrogenic Polycyclic Aromatic Hydrocarbons (PAHs) Resulting from the Deepwater Horizon Oil Spill |
| 248. | Aquifer Redox Geochemistry Determines Corrinoid Pools that Affect Activity of Corrinoid-auxotrophic, Organohalide-Respiring Bacteria |