

Poster Presentations

Poster Session 1

Monday, November 18th, from 5:00-7:00pm

Columbia A

#	Name	Organization	Title
1	Aarvig, Kathleen	Texas A&M University	Utilizing a Community-Based Approach to Investigate Lead-Contaminated Drinking Water within Houston Ship Channel Communities
2	Adachi-Mejia, Anna	Dartmouth College	New Hampshire Arsenic MCL Reduction: A Case Study in Risk Communication Planning for Contaminants of Emerging Concern
3	Agosto Arroyo, Luis Daniel	Northeastern University	Household pesticide use among PROTECT cohort participants during the Puerto Rico Zika epidemic in 2016
4	Aly, Noor	Texas A&M University	Temporal and Spatial Analysis of Poly/Perfluoroalkyl substances in Houston ship channel following firefighting foam deployment at the intercontinental terminal company
5	Ashrap, Pahriya	University of Michigan	Profile and Predictors of Urinary and Blood Metal Concentrations among Pregnant Women in Northern Puerto Rico
6	Baker, Tracie	Wayne State University	Novel method for assessing biological effects of volatile organic compound exposure in zebrafish
7	Bera, Gopal	Texas A&M University	Flume experiments to understand remobilization of contaminants from Houston Ship Channel sediments in post-storm scenarios
8	Beykal, Burcu	Texas A&M University	Classification of estrogenic compounds through image analysis using machine learning algorithms
9	Bhandari, Sharmila	Texas A&M University	HGBEnviroScreen: Enabling Community Action through Data Integration in the Houston-Galveston-Brazoria Region
10	Bittle, Maeve	University of Iowa	Evidence of modern and legacy sources of polychlorinated biphenyls (PCBs) in urban home air near a PCB-contaminated waterway pre- and post-dredging
11	Blevins, Lance	Michigan State University	Role of Programmed Cell Death Protein 1 in the Aryl Hydrocarbon Receptor-mediated Suppression of the IgM response in Human CD5+ Innate-like B cells

#	Name	Organization	Title
12	Brisolara, Kari	LSU Health Sciences Center - New Orleans	Implementation of Interprofessional Education Methods for Address Emerging Technologies in Occupational Health and Safety
13	Brown, Phil	Northeastern University	Chemical Class Consciousness: Scientific and Social Action on the PFAS Chemical Class
14	Buchanan, Nicholas	University of Arizona	Subsurface geochemistry dynamics investigated with specific and sequential extraction of solid phases during active phytostabilization of Iron King Mine Tailings
15	Campbell, Kyle	Northeastern University	Placental villous tissue for toxicology and epidemiology: Single-cell and sorted cell-type gene expression profiling
16	Cathey, Amber	University of Michigan	Phthalate mixtures and interactions are differentially associated with hormones during pregnancy
17	Cave, Matthew	University of Louisville	Volatile Organic Compound Exposures Are Positively Associated with Liver Apoptosis in a Residential Cohort
18	Ceballos, Diana	Harvard School of Public Health	Metal and Particulate Exposures from an E-Waste Mobile Shredding Truck
19	Chang, Yvonne	Oregon State University	Leveraging a weighted gene co-expression analysis to link co-regulated gene sets with PAH-related cancer risk in the 3D human bronchial epithelium
20	Chen, Zunwei	Texas A&M University	A compendium of human cell lines from different organs as an in vitro model for rapid grouping of superfund chemicals into classes
21	Chillrud, Steven	Columbia University	An update on research translation activities and collaborations on arsenic in private well water in New Jersey
22	Compton, Patrick	Northeastern University	Electrochemically-induced in situ oxidation of legacy munitions/insensitive high explosives
23	Crisalli, Alicia	University of Rhode Island	Investigation of Protein-PFAS Interactions and the Potential Interference of PFASs in Protein-DNA Interactions
24	Crittenden, Joshua	Duke University	Identification and Isolation of Polycyclic aromatic hydrocarbon (PAH) degrading bacteria in estuarine-influenced creosote contaminated sediment, Elizabeth River, VA
25	Dang, Audrey	University of Louisville	Developing a multi-channel gas chromatograph – mass spectrometer for mobile measurements of volatile organic compounds (VOCs) in ambient air
26	Dashner-Titus, Erica	University of New Mexico	RNA-Seq analysis reveals that uranium modifies the impact of arsenic on CD4+ T-cell activation

#	Name	Organization	Title
27	Deng, Pan	University of Kentucky	Co-exposure to PCB 126 and PFOS increases risk factors for peripheral vascular disease and liver injury associated with disordered lipid metabolism in mice
28	deSouza, Beverly	Duke University	Toxicological Assays of PAH-Contaminated Sediment Undergoing Bacterial Bioremediation
29	DeVille, Nicole	Boston University	Prenatal Mixtures of Environmental Exposures and Associations with Subsequent Teen Births
30	Diaz Rivera, Jazmin M.	Northeastern University	The Impact of Hurricanes Irma and Maria on Maternal Health: Voices of PROTECT Participants
31	Dodds, James	Texas A&M University	Evaluating the performance of Ion Mobility Spectrometry - Mass Spectrometry for the characterization of per and polyfluoroalkyl substances (PFAS)
32	Dong, Shi	Northeastern University	Using Undersampling with Ensemble Learning to Identify Factors Contributing to Preterm Birth
33	El-Moghazy, Ahmed	University of California-Davis	Point-of-Care Nanobody-based-Electrochemical sensor via Nanofibers for Rapid Detection of 3-Phenoxybenzoic acid in Human Urine
34	Elkin, Elana R.	Northeastern University	Transcriptional Profiling of the Trichloroethylene Metabolite S-(1,2-Dichlorovinyl)-L-Cysteine Revealed Activation of the EIF2 α /ATF4 Integrated Stress Response in the HTR-8/SVneo Trophoblast Cell Line
35	Eti, Nazmin Akter	University of Iowa	Gestational and Developmental Toxicity of Polychlorinated Biphenyls (PCBs)
36	Ewald, Jessica	University of Iowa	Growth of Dehalococcoides and increased abundance of reductive dehalogenase genes in PCB contaminated sediment microcosms.
37	Federico, Anthony	Boston University	Regulatory Network Reconstruction and Comparison to Model Chemical Perturbations
38	Finch, Jordan	University of Louisville	What Do We Know? A Critical Review of Site Condition and Public Health Risk Assessments in EPA Five Year Reviews of the Lee's Lane Superfund Site in Louisville, KY
39	Foster, Stephanie	Oregon State University	Arsenic Drinking Water Violations Decreased Across the United States Following Revision of the Maximum Contaminant Level
40	Frazar, Molly	University of Kentucky	Development of Thermo-responsive Cationic Polymers for the Removal of PFAS from Contaminated Water Systems

#	Name	Organization	Title
41	Fung, Samantha	University of Washington	Vertical Flux of Arsenic from Lakebed Sediments: External Forcing Mechanisms and Mixing Patterns
42	Garcia, Whitney	Oregon State University	Identifying Specific P450 Enzymes Involved with PAH Metabolism Using Activity-Based Protein Profiling
43	Garrick, Jacqueline	University of Washington	Paraoxonase-2 (PON2) in the Dopaminergic System of the CNS
44	Geltman, Elizabeth	City University of New York (CUNY)	Superfund Science & Risk Assessment Communication for Policymakers: the Case of Indoor Air Pollutants
45	Gonzales, Melissa	University of New Mexico	Enrichment of Metals in Airborne Particulate Matter Originating from Mine Sites
46	Gonzalez-Estrella, Jorge	University of New Mexico	Mobility of uranium and co-occurring metal mixtures in mine wastes.
47	Gui, Jiang	Dartmouth College	An Integrated Gaussian Graphical Model to Evaluate the Impact of Exposures on Metabolic Networks
48	Guo, Helen	University of California-Berkeley	Benzene exposure associated immunosuppression and chronic inflammation in humans: A systematic review
49	Gutierrez, Angela	University of Kentucky	Core-Shell magnetic nanoparticles for water treatment: tuning reaction time for enhanced affinity
50	Halder, Sujoy	University of Louisville	A sensor array for detection of multiple volatile organic compounds in air
51	Harmon, Ashlyn	LSU Health Sciences Center - New Orleans	Exposure to Environmentally Persistent Free Radicals Derived from Thermally Processed Waste Results in Endothelial Dysfunction and Vascular Oxidative Stress
52	Hart, Joy	University of Louisville	Collaborative Initiatives with Urban Youth and Young Adults: The Heart of the Matter
53	Hawkey, Andrew	Duke University	Neurobehavioral Effects of Embryonic Diazinon Exposure across the Lifespan in Zebrafish.
54	Hayward Watts, Lisa	University of Washington	Contaminated fish in the Lower Duwamish Waterway Superfund Site: Implications for human and ecological health
55	He, Feng	University of California-San Diego	ATF4 protects stress-induced cell death and reduces liver tumorigenesis
56	Hearon, Sara	Texas A&M University	Strong Adsorption of Dieldrin by Charcoal and Clay-Based Sorbents

#	Name	Organization	Title
57	Heberle, Lauren	University of Louisville	“Intentional Collaboration: Supporting Transdisciplinary Research at the University of Louisville Superfund Research Center”
58	Hejazi, Nima	University of California-Berkeley	Semiparametric estimation and robust empirical Bayes inference in high-dimensional biological studies
59	Heusinkveld, Dominika	University of Arizona	Risk Assessment: Lead exposure in children living near a active mine and copper smelter in Hayden-Winkelman, Arizona
60	Hojabri, Shayan	Northeastern University	Green in situ Electro-Generation of Hydrogen Peroxide and TCE Electroremediation - Theoretical Analysis
61	Hsieh, Nan-Hung	Texas A&M University	Concentration-response modeling of in vitro bioactivity data from complex mixtures of priority Superfund compounds
62	Hudson, Laurie	University of Tennessee	Thinking Zinc: A Study of Zinc Supplements on the Navajo Nation
63	Inman, Sarah	Columbia University	Spatial clustering of arsenic exposure of the HEALS cohort in Bangladesh remaining in 2018
64	Jennings, Sydney	Montana Technological University	Quantification and Bioavailability Determination of Metal Mixtures Present in the Soil and Dust of Households in Butte, MT
65	Jurglewicz, Amanda	Michigan State University	The Role of Transforming Growth Factor Signaling in TCDD-Induced Liver Injury
66	Kay, Jennifer	Massachusetts Institute of Technology	Analysis of Genetic Susceptibility Factors for N-nitrosamine-Induced Genomic Instability and Cancer
67	Keith, Rachel	University of Louisville	Effect of Volatile Organic Compound Exposure on Vascular Function
68	Kelly, Jamie	Massachusetts Institute of Technology	Atmospheric polycyclic aromatic hydrocarbons and the importance of gas-particle partitioning
69	Khan, D M Isha Olive	Michigan State University	Aryl Hydrocarbon Receptor (AHR) activation does not alter the percentage of lymphocyte-specific protein tyrosine kinase (LCK) expressing B cell progenitors
70	Koempel, Annie	University of Kentucky	Examining Environmental Health Literacy in Appalachia: Qualitative Findings from the Field

#	Name	Organization	Title
71	Koenigsmark, Faye	Duke University	Hair total mercury (THg) as an indicator of dietary methylmercury (MeHg) exposure in artisanal and small-scale gold mining areas in Madre de Dios, Peru
72	Kohale, Ishwar	Massachusetts Institute of Technology	Using systems biology to characterize cellular response to polycyclic aromatic hydrocarbons
73	Koike, Shinichiro	University of California-Davis	Soluble epoxide hydrolase deficiency and pharmacological inhibition attenuates beta-cell dysfunction and cell death
74	LaFrance, JoRee	University of Arizona	Contaminant behavior in the Indige-FEWSS nexus: A case study of food-energy-water interactions in the Little Bighorn River watershed, Crow Reservation, Southeastern MT, USA
75	Lan, Tuo	University of Iowa	Association of Dietary Intake and Serum Levels of PCBs in Urban and Rural Cohorts of Mother-Child Pairs
76	Larian, Nika	University of Kentucky	Exposure to Pseudomonas aeruginosa pyocyanin results in sexually dimorphic reductions in body weight and fat mass that are partially mediated by the adipocyte aryl hydrogen receptor
77	Laue, Hannah	Dartmouth College	Early postnatal gut microbiome and nutrient-toxic element mixtures in a United States longitudinal birth cohort
78	Levin, Edward	Duke University	Bridging Across Levels of Analysis to Advance Neurotoxic Risk Determination: Toxicology for the Second Fifth of the 21st Century
79	Li, Hui	Brown University	Testicular Toxicity of Sub-chronic Low-dose Methotrexate Exposure in Rat
80	Liu, Yina	Texas A&M University	Distribution of Per- and Polyfluorinated Alkyl Substances (PFAS) in Galveston Bay, TX
81	Liu, Deguang	University of California-Davis	Novel BAS-BLEIA based on Nanobody-Avidin fusion as binder and Biotinylated Ferritin-Nanoluciferase as reporter for Detection of Triclocarban in sewage sludge
82	Lohmann, Rainer	University of Rhode Island	Testing passive samplers for dissolved PFASs on Guam
83	Luo, Yu-Syuan	Texas A&M University	Quantitative in vitro-to-in vivo extrapolation for lipophilic environmental chemicals
84	Luukinen, Bryan	Duke University	The Duke Furniture Foam Testing Project: A Case Study in Citizen Science, Research Translation, and Science Communication

#	Name	Organization	Title
85	Magaña, Laura	University of California-Berkeley	A New Application of Colony-Forming Unit Assay to Culture Hematopoietic Stem and/or Progenitor Cells from Mouse Lung and Nose
86	Mallen, Melissa	University of Washington	Lead Exposure Persistently Perturbs the Gut Microbiome Associated with Different Susceptibility to Memory Deficit in a Humanized Mouse Model for Alzheimer's Disease
87	Malovichko, Marina	University of Louisville	Volatile Organic Compounds and Atherosclerosis
88	Reams, Margaret	Louisiana State University (LSU)	Navigating the NIEHS Translational Research Framework: Insights and Examples from the LSU Superfund Research Program
89	Velasco, Carmen	University of New Mexico	Influence of pH on the Precipitation of U(VI) and Natural Organic Matter in Laboratory Controlled Conditions
90	Schaider, Laurel	Silent Spring Institute	Legacy and Alternative PFAS Compounds in Private Wells on Cape Cod, Massachusetts, USA
91	Nigra, Anne	Columbia University	Mercury exposure assessment in the Cheyenne River Reservation and Strong Heart Family Study

Poster Session 2
Tuesday, November 19th, from 4:00-6:00pm
Columbia A

#	Name	Organization	Title
1	Mancini, Michael	Texas A&M University	A Highly Sensitive High Content Analysis Assay that Quickly and Reliably Classifies ER α Agonist and Antagonist Activity
2	McFall, Samantha	University of Louisville	Exposure to Volatile Organic Compounds Increases Circulating Endothelial Cells, Platelet, and Lung Microparticles
3	McGraw, Katlyn	University of Louisville	Toxic Release Inventory Sites are Clustered in Space in Jefferson County, Kentucky
4	McKenna, Anissa	University of Arizona	In Vitro Bioaccessibility of Arsenic in Mine Tailings Related Minerals
5	Mennillo, Elvira	University of California-San Diego	Intestinal NCoR1 Protects against Ulcerative Colitis
6	Middleton Manning, Beth Rose	University of California-Davis	Identifying and Assessing Harmful Contaminants on the Yurok Indian Reservation
7	Mobasser, Shariat	Wayne State University	Internet of Things-based Edge Computing (IoTEC) Sensor Network and Integrated Air Purifier for Rapid Response Vapor Intrusion Identification and Potential Mitigation
8	Morris, Andrew	University of Kentucky	High throughput UHPLC MS/MS measurement of Per and Poly Fluorinated Alkyl Substances (PFAS) in human serum
9	Neville, Amber	University of Rhode Island	Communicating private well water testing results and the human health implications of PFAS contamination through targeted messaging and tailored media
10	Nguyen, Vy	Harvard School of Public Health	Association of Lead Exposure on Cognitive Decline: The Role of Uric Acid
11	O'Leary, Brendan	Wayne State University and Henry Ford Health System	Airshed Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Preterm Births in Detroit.
12	Ojha, Sweta	University of Kentucky	Geospatial Analysis of Potential Drinking Water Exposure Risks Using GIS Tools
13	Oliveira, Ana	Brown University	3-D Finite Element Modeling Tools for Vapor Intrusion Mitigation Techniques

#	Name	Organization	Title
14	Ossanna, Lia	University of Arizona	Identifying biogeochemical indicators to measure fertility island effects during mine waste revegetation
15	Pace, Clare	University of California-Berkeley	The human right to water in California: a drinking water vulnerability screening tool for domestic well communities
16	Park, Hae-Ryung	Harvard School of Public Health	Placental extracellular vesicles modulates the neurotoxic effects of arsenic on neural stem cell proliferation
17	Petriello, Michael	Wayne State University and University of Kentucky	Effect of lifestyle based lipid lowering interventions on the relationship between circulating levels of per and poly fluorinated chemicals and serum cholesterol
18	Phillips, Rachael	University of California-Berkeley	Benzene exposure in humans associates with hypermethylation of HOXA5 and NFIB
19	Ponce, Johny	Center for Research in Environmental Health, CREEH Peru	Soil testing for lead by high-school students in several Peruvian towns
20	Prossner, Kristen	Virginia Institute of Marine Science	Months to minutes: Shrinking turnaround time for seafood safety assessment after PAH contamination events
21	Rana, Imaan	University of California-Berkeley	Formaldehyde and brain disorders: A meta-analysis and bioinformatics approach
22	Ranville, James	Colorado School of Mines	Chemical and Biological Recovery of a Mountain Stream Following Acid Mine Drainage Remediation
23	Ranville, James	Colorado School of Mines	Improving Metal Mixture Risk Assessment at Mining-Impacted Sites Using Gene-Expression Studies with <i>Daphnia magna</i>
24	Rardin, Laurie	Dartmouth College	Creating Community for Government Partnerships: Two Case Studies of Research Translation
25	Reed, Eric	Boston University	K2 clustering: An R package to facilitate data driven molecular subtyping of toxicogenomic screens and other large-scale transcriptomic studies
26	Rice, Brittany	University of Kentucky	The impact of nuclear factor erythroid-2-related factor 2 genotype on the hepatic gene expression of mice exposed to polychlorinated biphenyl 126

#	Name	Organization	Title
27	Rivera, Brianna	Oregon State University	Evaluating Toxicity Associated with Inhalation Exposure to Unconventional Natural Gas Drilling
28	Roberts, Aakansha	Michigan State University	Characterization of a Novel Dioxygenase for the Degradation of Diphenylether
29	Rodd, April	Brown University	Characterizing the effects of embryonic perfluorooctanesulfonic acid (PFOS) exposure on microglial development using the zebrafish model
30	Rodriguez, Elienisse	Northeastern University	Dynamic Presence of Contaminant Mixtures in Karst Water Systems
31	Rodríguez-Chávez, Tania B.	University of Arizona	Outdoor/Indoor Transport of Contaminants in Mining Sites
32	Rohlman, Diana	Oregon State University	Developing Accessible and Available Scientific Information
33	Rolston, Hannah	Oregon State University	Experimental and modeling studies of aerobic cometabolism for the remediation of groundwater contaminated with 1,4-dioxane and chlorinated hydrocarbons
34	Roman, Carolyn	University of New Mexico	Abandoned uranium mine waste clean-up and risk assessment on the Navajo Nation.
35	Roman-Hubers, Alina	Texas A&M University	Passive dosing methods for in vitro testing of UVCB substances
36	Saad, Anthony	University of Kentucky	Reversible thermo-responsive adsorption of perfluoro-organics from water using poly-N-isopropylacrylamide hydrogels and pore functionalized membranes
37	Saktrakulkla, Panithi	University of Iowa	PCBs in Foods
38	Savage, Dustin	University of Kentucky	Progression Toward a Poly(N-Isopropylacrylamide)-Based Sensor for Perfluorooctane Sulfonate
39	Saxena, Roheeni	Columbia University	One-Carbon Metabolism Nutritional Factors and Arsenic Methylation among Adolescents Residing in Araihasar, Bangladesh
40	Shah, Rishabh	University of Kentucky	Development of covalent and non-covalent crosslinked temperature responsive polymers containing biphenyl functionalities for water treatment applications
41	Shankar, Prarthana	Oregon State University	Identification and functional characterization of the AHR2-dependent gene, wfikkn1, in zebrafish

#	Name	Organization	Title
42	Sirish, Padmini	University of California-Davis	Cardiotoxic effects of diclofenac in mice and human pluripotent stem cell derived cardiomyocytes
43	Smith, Ted	University of Louisville	Translating Primary Research Directly to the Community: City on Science Community Journal Club Approach and Preliminary Results
44	Stroem, Jonathan	Brown University	Sorption Phenomena In Transient Vapor Intrusion Scenarios
45	Su, Anthony	Northeastern University	The trichloroethylene metabolite S-(1,2-dichlorovinyl)-L-cysteine stimulates metabolomic changes in human placental trophoblast BeWo cells undergoing syncytialization
46	Sun, Mohan	University of California-Berkeley	Identification of Re-type Synthase Genes from <i>Dehalococcoides mccartyi</i> 195 Using <i>Desulfovibrio vulgaris</i> Hildenborough as a Functional Host
47	Surolia/Antony, Ranu/Veena	University of Alabama at Birmingham	Arsenic induces airway remodeling through activation of Peptidyl arginine deiminases
48	Tao, Zhihan	Texas A&M University	Detoxifying Neighborhood Contaminants through Green Infrastructure Planning: A NIEHS Translational Research Framework Approach
49	Taylor, LeighAnne	Harvard School of Public Health	Educational Material Development for E-waste Recycling Workers and Facility Owners: Electronic Waste Containing PCBs Information and Safety
50	Taylor, Breandon	University of Louisville	Volatile Organic Compound Exposure Depletes Circulating Angiogenic Cells
51	Teimoori, Sadaf	Wayne State University	Characteristics and Health Implications of Detroit's Shallow Groundwater
52	Thatcher, Sean	University of Kentucky	Resveratrol inhibits PCB-77-induced reductions of glucose tolerance via the adipocyte aryl hydrocarbon receptor during weight loss of male obese C57BL/6J mice
53	van Geen, Alexander	Columbia University	Elevated soil-lead concentrations in New York City backyards: Sources and implications
54	Van Glubt, Sarah	University of Arizona	Retention and Transport of PFAS in Source Zones
55	Vandiver, Kathleen	Massachusetts Institute of Technology	CEC and RTC Community Highlights from MIT SRP YR2

#	Name	Organization	Title
56	Varner, Paige	Duke University	Investigating impact of ecological growth strategies on plasmid transfer and function to model and promote a precision bioremediation framework
57	Vesper, Dorothy	Northeastern University	Using cave sediments to evaluate the concentrations and types of organic carbon in aquifer sediments
58	Wan, Hongyi	University of Kentucky	Pd/Fe nanoparticle integrated PMAA-PVDF membranes for chloro-organic remediation from synthetic and site groundwater
59	Wang, Meichen	Texas A&M University	Broad-acting enterosorbents for mitigation of polychlorinated biphenyls and mixtures during emergencies and natural disasters
60	Wang, Hui	University of Iowa	Do Chronic Inhalation of Polychlorinated Biphenyls (PCBs) in School Provoke Adverse Effects to Children?
61	Wang, Chunyan	University of Kentucky	PFOS Modifies PCB 126 Induced Inflammation in Macrophages
62	Warczak, Todd	Dartmouth College	Arsenic Detoxification in Plant Roots: Identifying Arsenic Effluxers
63	Watkins, Deborah	Northeastern University	Environmental exposures among pregnant women in Puerto Rico in the aftermath of Hurricane Maria
64	Weber, Andre	University of California-San Diego	Triclosan (TCS) exposure in neonatal mice dysregulates lipid metabolism and leads to ER stress and inflammation in liver.
65	Wei, Linqing	University of California-Berkeley	Statistical Epigenome-wide Association Study of Formaldehyde Exposure in relation to Leukemia
66	Welton, Michael	Northeastern University	Impact of Hurricanes Irma and Maria on Pregnancy Outcomes in Puerto Rico
67	Wheeler, Jamar	University of Louisville	"Assessing Investigator and Community Participant Capacity for Community Engaged Research"
68	Wiley, Jackson	Oregon State University	Impact of sodium sulfate storage for accelerated solvent extraction: quantification of PAHs and developmental toxicity in blank extracts
69	Wise, James	University of Arizona	Arsenic-induced NRF2 Expression: A role for TRIM Family Proteins
70	Xie, Shuai	Brown University	Sorption Process of Trichloroethylene at Low Concentration on Various Building Materials

#	Name	Organization	Title
71	Yamamoto, Gen	University of California-San Diego	IL-17 Signaling in Steatotic Hepatocytes and Macrophages Promotes Alcoholic Liver Disease-induced Hepatocellular Carcinoma
72	Young, Thomas	University of California-Davis	Identifying Toxicologically Significant Compounds in Urban Wildfire Ash using in Vitro Bioassays and High Resolution Mass Spectrometry
73	Young, Jamie	University of Louisville	The Effects of Whole Life, Low Dose Cadmium Exposure on High Fat Diet-Induced Metabolic Disease and Its Modulation by Zinc
74	Yu, Qi	University of California-San Diego	New insights from microRNA screening as a functional genomics approach to uncover heavy metal tolerance and accumulation mechanisms
75	Yu, Qi	University of California-San Diego	Identification of new components in cadmium-specific signaling networks
76	Yuan, Kevin	Dartmouth College	Patterns of inorganic and organic co-contaminants in marine fish and shellfish
77	Zeff, Harrison	Texas A&M University	The joint impacts of flooding and contaminated sediment deposition on private property owners in the wake of a storm surge event
78	Zhang, Mengke	Brown University	Vapor pressure of nine perfluoroalkyl substances (PFASs) determined using the Knudsen Effusion Method
79	Zhang, Duo	University of Iowa	Development of a Broadly Applicable Method for Identification and Analysis of Polychlorinated Biphenyl Sulfates in Human Serum
80	Zhang, Angela	University of Washington	Exposure to cadmium modulates the composition of short chain fatty acid-producing microbiota in an Alzheimer's disease mouse model
81	Zhao, Yuwei	Northeastern University	Electrogeneration of H ₂ O ₂ on a PTFE-O ₂ diffusion electrode with a PDMS dampproof coating in a flow-through reactor
82	Zhao, Yun	University of California-Berkeley	Formaldehyde Inhalation Induces Hematopoietic Stem and Progenitor Cell Toxicity in Exposed Mice
83	Zhao, Cunyi	University of California-Davis	Design and fabrication of highly sensitive colorimetric biosensors by applying ELISA on nanofibrous membranes

#	Name	Organization	Title
84	Zhu, Rui	Texas A&M University	Resilience through Regeneration: Counteracting the effects of Urban Decline and Flood Events using the NIEHS Translational Research Framework
85	James, Katherine	Harvard School of Public Health	The Association between Exposure to Naturally Occurring Metals and Acute Kidney Injury and Chronic Kidney Disease in Rural Colorado
86	Gonsalves, Summer	Brown University	A Novel Approach to Native American Health and Wellness: Of the Earth Harvest Boxes
87	Guzy, Elizabeth	University of Washington	Building a Community of Practice for Community Managers in Science: Reflections on the 2019 Center for Scientific Collaboration and Community Engagement Fellowship

SRP Data Science Supplement External Use Case “Show and Tell”

Monday, November 18th- Tuesday, November 19th from 8am-7pm

Columbia Pre-function

Name	Organization
Arsenic Epigenetics META: towards a Meta-analysis of Epigenome Data on Arsenic	Columbia University, UC Berkeley
Arsenic Mass Balance: Integrating Environmental and Biomarker Data across Diverse Populations	Columbia University, UC Berkeley, University of New Mexico
Data Harmonization across SRP pregnancy and birth cohorts	Northeastern University, University of New Mexico, Dartmouth College
Data Interoperability for Investigating Biogeochemical Controls on Metal Mixture Toxicity Using Stable Isotopes and Gene Expression	University of Arizona, Colorado School of Mines (RO1)
Deciphering intra- and cross-kingdom microbial interactions for bioremediation of Superfund pollutants: a collaboration between the University of Iowa and Duke University for management, sharing, interoperability and reuse of microbiome data across SRP centers	Duke University, University of Iowa
Developing a Spatial Approach for Toxic Transferal from Industrial and Vacant Land Uses to Green Infrastructure	Texas A&M University, Brown, UC-San Diego
Development of Interoperable Data Platforms to Define Best Practices and Data Sharing for Flow Cytometry	University of New Mexico, University of Louisville
Improvement of small molecule biosensor probe development and biomedical applications through the integration & reuse of SRC data sets	UC- San Diego, UC- Davis
Improvement, Harmonization, and Merging of Data Streams related to DNA Damage	University of New Mexico, MIT
Improving Synchrotron-Based Data Access, Analysis and Workflows Measuring the Concentration, Speciation and Distribution of Contaminants in Environmental and Biomedical Matrices	Columbia University, University of Arizona, Dartmouth College, University of New Mexico
Improving the Robustness and Toxicological Significance of Nontarget Chemical Identification in High Resolution Mass Spectrometric Data	Duke University, UC-Davis
Integrating and Creating Broad Access for Transcriptomic, Proteomic, Microbiome and Physicochemical Datasets of Phytoremediator/ Phytostabilizer Plants	University of Arizona, UC- San Diego

Name	Organization
Integrating population genomic data to understand mechanisms of chemical susceptibility and resistance	Boston University, Duke University
Integration and Analysis of SRC-Generated Cardiometabolic Syndrome Data Streams from Animal Models	Michigan State University, University of Louisville, Kentucky
Integration and Sharing of Xenobiotics-Associated Assays across Species, Phenotypes, and Sites	Boston University, Oregon State University
Linking Data from Laboratory and Field Investigations of Mercury Transformation, Bioaccumulation, and Remediation	Dartmouth College, University of Maryland-Baltimore County (R01), Duke University (R01)
Making Fish Contaminant Data FAIR to Improve Fish Consumption Advisories	Dartmouth College, Boston University
Refining species-conserved adverse outcome pathways (AOPs) of AhR-mediated adverse effects through integration and re-use of Superfund Research datasets	Michigan State University, University of Iowa
Validate and Develop Visualization and Reproducibility Documentation for Source-Receptor Relationships for Toxicants	MIT, University of Rhode Island

RTC/CEC Display Tables & Posters

Monday, November 18th, from 8am-7pm

Columbia Foyer

#	Name	Organization
1	Chillrud, Steven	Columbia University
2	Cohen, Sam	Duke University
3	Engelward, Bevin	MIT
4	Estrella, Rocio	University of Arizona
5	Gonsalves, Summer	Brown University
6	Gonzales, Melissa	University of New Mexico
7	Harper, Stacey	Oregon State University
8	Hayward, Lisa	University of Washington
9	Heiger-Bernays, Wendy	Boston University
10	Janssen, Brandi	University of Iowa
11	McHale, Cliona	University of California Berkeley
12	Middleton, Beth Rose	UC Davis
13	Neville, Amber	University of Rhode Island
14	Ormsbee, Lindell	University of Kentucky
15	Pezzoli, Keith	University of California San Diego
16	Rardin, Laurie	Dartmouth University
17	Rohde, Arlean	Texas A&M University
18	Upham, Brad	Michigan State University

SRP in 3D: Devices, Demos, and Displays

Tuesday, November 19th, from 8am-7pm

Columbia Foyer

#	Name	Organization	Title
1	Boehme, Lindsay	PowerTech Water, LLC	Targeted Lead (Pb) Removal for Drinking Water Purification Using INCION
2	Boxley, Chett	GlycoSurf	Novel Rhamnolipid Surfactants for Recovery of Critical Elements and Remediation of Metal Contaminated Waste Streams
3	Campagna, Shawn	Microbial Insights, Inc.	Expanding the Tool Box: Environmental Metabolomics Improves Decision Making and Management of Contaminated (Superfund) Sites
4	Cassou, Frank	CycloPure	Remediation of Perfluorinated Chemicals in Water Using Novel High-Affinity Polymer Adsorbents
5	Chen, Long	Northeastern University	PROTECT's Tools for Water Testing, Treatment, and Report Back
6	Landes, Franziska	Columbia University	A New Field Kit to Screen Soil for Hazardous Lead
7	Schaider, Laurel	Silent Spring Institute	Digital Exposure Report-Back Interface (DERBI) - An Interactive Web-Based Tool for Personalized Exposure and Biomonitoring Results
8	Spak, Scott	University of Iowa	Research translation through interactive web-based data sharing and visualization
9	Unger, Michael	Virginia Institute of Marine Science	A monoclonal antibody-based biosensor for rapid assessment of PAH distribution, fate and toxicity at contaminated sites
10	Vandiver, Kathleen	MIT	Learn Essential Exposure Biology with Massachusetts Institute of Technology (MIT) Teaching Models