



2018 NIEHS/EPA Children's Environmental Health Centers Annual Meeting

October 22-23, 2018

NIEHS Building 101, Rodbell Auditorium • Research Triangle Park, N.C.

NIEHS/EPA Children's Environmental Health Centers: Raising the Visibility of the Science

Day One – Monday, October 22

8:00 a.m. **Registration** (*Building 101 Lobby*)

9:00 a.m. **Welcome and Introductions** (*Rodbell Auditorium*)
Kimberly Gray, Ph.D., National Institute of Environmental Health Sciences (NIEHS)
Michael Slimak, Ph.D., Environmental Protection Agency (EPA)
Linda Birnbaum, Ph.D., D.A.B.T, A.T.S., Director, NIEHS and National Toxicology Program

Session One – Respiratory/Obesity/Growth and Development (*Rodbell Auditorium*)

Moderator: Kimberly Gray, Ph.D., NIEHS

9:15 a.m. **Obesity and Diet As Susceptibility Factors for Pollutant Effects in Childhood Asthma**
Meredith McCormack, M.D., and Nadia Hansel, M.D., Center for Childhood Asthma in the Urban Environment (CCAUE), Johns Hopkins University

9:40 a.m. **Does Air Pollution Cause Obesity and Metabolic Disease?**
Rob McConnell, M.D., Southern California Children's Environmental Health Center, University of Southern California

10:05 a.m. **Translational Research in the San Joaquin Valley of California**
Betsey Noth, Ph.D., Children's Health and Air Pollutions Study (CHAPS), University of California, Berkeley

10:30 a.m. **Early Stage Investigators (ESI) Poster Discussion I**
Five Early Stage Investigators will present their work
(Five-minute presentations with 10 minutes of discussion in three rotations)

Early Childhood Lead Exposure in Relation to Adolescent Sleep Duration: A Longitudinal Investigation (*Rodbell A*)
Jonggyu Baek, Ph.D., University of Massachusetts

The Early Life Exposome: Associations with Child Lipid Profile (*Rodbell B*)
Lida Chatzi, M.D., Ph.D., University of Southern California

Serum Accumulation of Polybrominated Diphenyl Ethers Alters Steroid Metabolism in Pregnant African American Women (*Rodbell C*)
Jolyn Fernandes, Ph.D., Emory University

Prenatal and Postnatal Tobacco Smoke Residue Exposure Disrupts Immune Development in a Mouse Model of Childhood Acute Lymphoblastic Leukemia (Lobby)
Briana Fitch, University of California, San Francisco

An Examination of Non-Nutritive Suck in Relation to Prenatal Environmental Exposures in a Puerto Rican Cohort (Lake View Conference Room)
Emily Zimmerman, Ph.D., Northeastern University

11:30 a.m. Lunch (Cafeteria)

Early Stage Investigators picture with Linda Birnbaum (Rodbell B)

Noon Poster Session (Lobby)

Session Two – Growth and Development (Rodbell Auditorium)

Moderator: Cynthia Nolt-Helms, EPA

12:45 p.m. Impact of Low-Level Arsenic Exposure on Children's Health
Margaret Karagas, Ph.D., Children's Environmental Health and Disease Prevention Research, Dartmouth College

1:10 p.m. Translational Research on Air Pollution and Pesticides and Children's Health
Frederica Perera, DrPH, Ph.D., Columbia Center for Children's Environmental Health, Columbia University Health Sciences

1:35 p.m. Lifecourse Exposures and Diet: Epigenetics, Maturation, and Metabolic Syndrome
Karen Peterson, D.Sc., University of Michigan Children's Environmental Health and Disease Protection Center, University of Michigan, Ann Arbor

2:00 p.m. ESI Poster Discussion II
Five Early Stage Investigators will present their work (Five-minute presentations with 10 minutes of discussion in three rotations)

Omega-3 and Omega-6 Fatty Acid Intake Modifies Response to Indoor Air Pollution in Children with Asthma (Rodbell A)
Emily Brigham, M.D., Johns Hopkins University

Influences of Early-Life Exposures on the Infant Gut Microbiome in the New Hampshire Birth Cohort Study (Rodbell B)
Anne Hoen, Ph.D., Dartmouth College

Prenatal vs. Postnatal Smoke Exposure: Identifying Predictors of School Age ADHD Symptoms (Rodbell C)
Julia Schechter, Ph.D., Duke University

Urinary Concentrations of Phthalate Metabolites among Pregnant African American Women Residing in the Metropolitan Atlanta Area (Lobby)
Melissa Smarr, Ph.D., Emory University

Untargeted Adductomics of Newborn Dried Blood Spots to Identify Cys34 Modifications to Human Serum Albumin Associated with Childhood Leukemia
Yukiko Yano, University of California, Berkeley (Lake View Conference Room)

Session Three – Perinatal Exposures/Neuro/Immune/Epigenetics (Rodbell Auditorium)

Moderator: Cindy Lawler, Ph.D., NIEHS

3:00 p.m. Our Illinois Translation Story

Susan Schantz, Ph.D., University of Illinois Children's Environmental Health Research Center, University of Illinois, Urbana-Champaign

3:25 p.m. Translational Story of an ASD Clinical Biomarker

Judy Van de Water, Ph.D., Center for Children's Environmental Health and Disease Prevention, University of California, Davis

3:50 p.m. How CIRCLE Crosses Translational Bridges

Catherine Metayer, M.D., Ph.D., and Todd Whitehead, PhD., Center for Integrative Research on Childhood Leukemia and the Environment (CIRCLE), University of California, Berkeley

4:15 p.m. 20 Years in the Field: the CHAMACOS's Community University Partnership

Asa Bradman, Ph.D., Center for the Health Assessment of Mothers and Children of Salinas (CHAMACOS), University of California, Berkeley

5:00 p.m. Adjourn

6:30 p.m. Walking Tour of Durham

Durham Bull Statue, 201 Corcoran Street, Durham

Day Two – Tuesday, October 23

Session Four – Pregnancy Cohorts (Rodbell Auditorium)

Moderator: Nica Louie, EPA

**9:00 a.m. Tobacco Smoke Exposure During Pregnancy:
epigenetic and Functional Impacts – From Rats to Humans**

Susan Murphy, Ph.D., Neurodevelopment and Improving Children's Health Following Environmental Tobacco Smoke Exposure (NICHES), Duke University

9:25 a.m. Making the Environment Matter in Health Care

Tracey Woodruff, Ph.D., Pregnancy Exposures to Environmental Chemicals (PEEC) Children's Center, University of California, San Francisco

9:50 a.m. Perspectives From a New Center: Moving Transdisciplinary Research Teams Along the Translational Framework Continuum

Linda McCauley, Ph.D., Center for Children's Health, the Environment, the Microbiome, and Metabolomics (C-CHEM2), Emory University

10:15 a.m. Center for Research on Early Childhood Exposure and Development in Puerto Rico

Jose Cordero, M.D., Center for Research on Early Childhood Exposure and Development in Puerto Rico (CRECE), Northeastern University

10:40 a.m. Pediatric Environmental Health Specialty Units (PEHSU) Panel *(Rodbell Auditorium)*

Moderators: Liam O'Fallon, NIEHS and Martha Berger, U.S. EPA Office of Children's Health

This panel will be with PEHSU representatives to discuss approaches to raise the visibility of the science and research results and where new opportunities exist.

- Nick Newman, D.O., University of Cincinnati
- Sheela Sathyanarayana, M.D., University of Washington
- Carolyn Murray, M.D., Dartmouth College
- Victoria Leonard, Ph.D., University of California, San Francisco
- Mike Hatcher, DrPH, Agency for Toxic Substances and Disease Registry
- Jose Cordero, M.D., University of Georgia

11:45 a.m. Eyes to the Future: Summary and Next Steps

12:00 p.m. Meeting Adjourn

Social Media Workshop *(Rodbell Auditorium)*

Come learn more about how to incorporate social media, an increasingly important outreach tool in public health, into your community outreach and translation work. An expert panel will present on the use of social media for public health outreach followed by interactive training for all levels of users, from beginners to advanced.

- 1:30 p.m. Welcome**
- 1:40 p.m. Panel**
- 2:40 p.m. Break**
- 2:55 p.m. Workshop Session One**
- 3:55 p.m. Break** *(rotate workshops)*
- 4:05 p.m. Workshop Session Two**
- 5:05 p.m. Conclusion and Final Remarks**
- 5:15 p.m. Adjourn**