

National Institute of Environmental Health Sciences

National Institutes of Health

U.S. Department of Health and Human Services

Environmental Contributors to Autism Spectrum Disorders

Grantee Meeting

December 5, 2016

Durham Convention Center

Meeting Room 3

AGENDA

Welcome and Introductions

8:30 – 8:45

Introductions

8:45 – 8:55

Welcome

Linda Birnbaum, Director, National Institute of Environmental Health Sciences, National Toxicology Program

8:55 – 9:05

Programmatic Introduction

Cindy Lawler; Chief of Genes, Environment, and Health Branch; NIEHS

- Vision for the program
- Meeting goals

PI Overviews and Discussion

- Full-length talks will be 15 minutes long with 5 minutes for questions
- **“Lightning” talks (by newest awardees) will be 5 minutes, including questions**

SESSION 1: *Animal Models of Environmental and Genetic Risk*

Moderator: Cindy Lawler

- 9:05– 9:10 **Maternal Obesity and Weight Change in Rhesus Monkey Neurobehavioral Development**
Cheryl Walker
- 9:10 – 9:15 **Prenatal Environmental Toxicants Induce Neuroinflammation Causing Autistic Behaviors**
David Lawrence
- 9:15 – 9:20 **Environmental Toxins and Microglia-Synapse Interactions in Autism**
Staci Bilbo
- 9:20– 9:40 **Developmental Exposures to Inhaled Air Pollution and the Autism Phenotype in Mice**
Deborah Cory-Slechta
- 9:40– 10:00 **Functional Outcomes of Interactions between an ASD-Relevant Gene and Air Pollution**
Jill Silverman
- 10:00 – 10:30 *Discussion on animal models and ASD*
- 10:30 – 10:50 **Break**

SESSION 2: *Epidemiological Studies*
Moderator: Amanda Garton

- 10:50 – 11:10 **Childhood Autism and Air Pollution - A Statewide Study**
Ondine Von Ehrenstein
- 11:10 -- 11:15 **Air Pollution and Autism in Israel: A Population-Wide Study**
Marc Weisskopf
- 11:15 – 11:35 **Prenatal Antimicrobial Agent Exposure, Fetal Androgens and ASD Risk**
Craig Newshaffer
- 11:35 – 11:55 **Prenatal Exposure to Phthalates in a High-Risk ASD Pregnancy Cohort**
Hyeong-Moo Shin
- 11:55 – 12:00 **Autism and Prenatal Endocrine Disruptors (A-PED)**
Abraham Reichenberg
- 12:00 – 12:30 *Discussion on epidemiology studies*

12:30—2:00

Lunch

SESSION 3: Genetic Susceptibility, Epigenetics, ‘Omics

Moderator: Astrid Haugen

2:00 – 2:20

Folic Acid Prevention Pathways for ASD in High Risk Families

Rebecca Jean Schmidt

2:20 – 2:25

Stem cell- based studies of gene-environment interactions in PTEN- associated autism

Harley Kornblum

2:25 – 2:45

Environmental Contribution to Neuronal-methylome Dynamics in Animal Models of Autism Spectrum Disorders

Margarita Behrens

2:45 – 2:50

Endocrine Disrupting Chemicals, Epigenetic Alterations, and Autism-Like Behaviors in the Highly Social California Mouse Model

Cheryl Rosenfeld

2:50 – 2:55

Prenatal Exposure to Metals and Risk for Autism Spectrum Disorder in MARBLES and EARLI

Dani Fallin

2:55– 3:15

Autism Metabolomics and Environment (AIME)

Beate Ritz

3:15 – 3:35

An Environment-wide Association Study in Autism Spectrum Disorders using Novel Bioinformatics Methods and Metabolomics via Mass Spectrometry

Sek Won Kong

3:35 – 4:05

Discussion on genetic susceptibility, epigenetics, ‘omics

4:05 – 4:35

***Summary and Opportunities for Collaboration**

4:35 – 4:40

Closing

Gwen Collman, Director of DERT, NIEHS

*Collaboration discussion might move to dinner conversation instead of taking place during the meeting.

Dinner will be at [Dos Perros](#). The reservation is under the name, Astrid Haugen, and is for 6:30 pm.

Information on location can be found [here](#) and [here](#).