

*National Institute of Environmental Health Sciences*

*National Institutes of Health*

*U.S. Department of Health and Human Services*

## Environmental Contributors to Autism Spectrum Disorders

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### ***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](#).