



FETAL ALCOHOL SPECTRUM DISORDERS STUDY GROUP

June 22, 2024
Minneapolis, MN

Understanding the Genetic Landscape: Using clinical and preclinical data to understand risk

Jonathan L. Brigman, Ph.D., *President*; Scott Parnell, Ph.D., *Vice-President*;
R. Colin Carter, M.D., *Treasurer*; Johann Eberhart, Ph.D., *Secretary*

- 7:15-8:00 **Registration and Coffee**
- 8:00-8:10 **Welcome, Jonathan L. Brigman, Ph.D.**, President of FASDSG
- 8:10-9:05 **Keynote Presentation 1: Genetic and Functional Dissection of Rare Neurodevelopmental Disease: Erica Davis, PhD**, Professor of Pediatrics and Cell and Developmental Biology, Northwestern University Feinberg School of Medicine; Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago
- 9:05-9:45 **FASt Data Presentation Session I** (a series of 5-minute, two-slide presentations on late-breaking results in the field)
- Binge-like ethanol exposure during the mouse equivalent to the third trimester of human pregnancy damages subicular interneurons. Katalina Lopez, B.S.* University of New Mexico **(Travel Awardee)**
- Fetal alcohol spectrum disorders and co-occurring trauma-and stressor-related disorders: differences in externalizing and internalizing symptomatology. Madeline Rockhold, M.A.* University of Rochester **(Travel Awardee)**
- One-hour isolation stress alters corticolimbic mRNA expression of stress, clock, and proinflammatory immune factors in PAE female adolescent mice. Annette Fernandez-Oropeza, B.S.* University of New Mexico **(Travel Awardee)**
- Prenatal alcohol exposure alters choline metabolism across the maternal fetal dyad. Hannah Petry, B.S.* University of North Carolina **(Travel Awardee)**
- Transcriptional programs are altered in brain microvascular endothelial cells as a result of prenatal alcohol exposure. Marissa Westenskow, B.S.* University of New Mexico **(Travel Awardee)**
- 9:45-10:05 **Ken Warren Merit Award: Carson Kautz-Turnbull, M.A.** University of Rochester. *Results from initial pilot trial testing of the FMF Connect Teacher Companion website, an FASD-informed resource for teachers.*
- 10:05-10:20 **Coffee Break**
- 10:20-10:40 **Timothy A. Cudd Award: Rayna Mazumdar, B.A.**, University of Texas, Austin. *Embryonic ethanol exposure perturbs genetic landscape of nnt mutants.*

- 10:40-11:00 **Breaking News: Brief Updates on New Tools and Approaches**
Available Data from the Collaborative Initiative on Fetal Alcohol Spectrum Disorders (CIFASD).
Leah Wetherill, PhD, Indiana University
A Novel Telehealth Hub and Spoke Approach to Neurodevelopmental Disorders in the US Military Health System with Emphasis on Fetal Alcohol Spectrum Disorders.
Eric Flake, MD, USUHS
- 11:00-11:40 **Dose and Pattern of Prenatal Alcohol Exposure Associated with Adverse Effects on Cognitive Function: Joseph Jacobson, PhD**, Wayne State University
- 11:40-11:50 **Business Meeting and New Officer Announcement**
- 11:50-1:00 **Lunch at Sonora Mexican Kitchen** (pre-purchased ticket required)
- 1:00-1:30 **Federal and Community Agency Updates**
- **Bill Dunty, Ph.D.**, National Institute on Alcohol Abuse & Alcoholism
 - **Tatiana Balachova, Ph.D.**, Interagency Coordinating Committee on FASD
 - **Clark Denny, Ph.D.**, Centers for Disease Control and Prevention
 - **Tom Donaldson**, FASD United
- 1:30:2:25 **Keynote Presentation 2: *The Role of Genetics in Complex Diseases***
Giuseppe Tosto, MD, PhD, Assistant Professor, Department of Neurology, Columbia University Irving Medical Center
- 2:25-2:55 **Coffee Break & Poster Session (Exhibit Hall)**
- 2:55-3:35 **FASt Data Presentation Session II**
Prenatal Alcohol Exposure impairs cognitive control and alters the function of the posterior parietal cortex of mice. **Brooke Dunn, B.S.** University of New Mexico (**Travel Awardee**)
Ethanol modulates the response of cranial neural crest-derived cells to Pdgf signaling. **Shuge Sun, M.S.** University of Texas (**Travel Awardee**)
Prenatal alcohol exposure interacts with morphine through NLRP3 inflammasome-dependent mechanisms, leading to heightened neuroimmune activity and paradoxically inducing prolonged allodynia. **Andrea Pasmay, B.S.** University of New Mexico (**Travel Awardee**)
Daily consumption of a quarter of a drink during development disrupts neuronal plasticity and orientation selectivity in the visual cortex of ferrets. **Molly Pruitt, B.S.** University of Maryland (**Travel Awardee**)
Prenatal alcohol exposure (PAE) and mild adolescent stress induce vulnerability to anxiety disorders in mice. **Justine Zimmerly, B.S.** University of New Mexico (**Travel Awardee**)
- 3:35-3:45 **Introduction of Rosett Award Winner**
- 3:45-4:30 **Rosett Award Talk**
- 4:30 **Closing**

We ask that all Awardees please stay after the closing for pictures with the officers.