The Collaborative Initiative on FASD: New Findings on Screening

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I have no conflict of interest to report and no financial relationship with any commercial interest
An international, multidisciplinary collaboration of both basic and clinical research projects

Established in 2003 with funding from NIAAA to enhance the definitive diagnoses of FASD at different stages of the lifespan based on biological, physical, and/or behavioral assessment and to improve outcomes in individuals with FASD.
CIFASD CONCEPTUAL FRAMEWORK

Alcohol Exposure During Gestation
- Dose
- Timing
- Pattern
  - Genetics
  - Age
  - Nutrition

Biomarkers

Embryonic and Fetal Development
- Face

Environment Genetics

Behavior

Life Span

Health

Interventions

Screening

Wider application of our research through ehealth/mhealth and public awareness
MANY THANK TO THE NIAAA AND THE FOLKS THERE

B. Dunty

D. Hereld

G. Koob
PART 1 - THE GENETICS OF FASD: CIFASD STUDIES IN FISH, MICE, AND HUMANS

- Genetic and Bioinformatic Approaches to Understanding Alcohol Teratogenesis
  - Johann Eberhart, PhD, Associate Professor, Molecular Biosciences, University of Texas at Austin, Austin, TX, USA

- Diving into Social Deficits with a Zebrafish Model
  - Yohaan Fernandes, PhD, Molecular Biosciences, University of Texas at Austin, Austin, TX, USA

- Genetic Modifiers of Susceptibility to PAE in Mice
  - Scott Parnell, PhD, Assistant Professor, Bowles Centre for Alcohol Studies, Department of Cell Biology and Physiology, University of North Carolina, Chapel Hill, NC, USA

- The Genetics of FASD: Accelerating Research Advances
  - Tatiana Foroud, PhD, Professor, Department of Medical and Molecular Genetics, School of Medicine, Indiana University, Indianapolis, IN, USA
PART 2 - BIOMARKERS OF EXPOSURE AND RISK: THE QUEST FOR EARLY DIAGNOSIS AND INTERVENTION

- Maternal Circulating MicroRNAs Control The Placental Response To PAE
  - Rajesh C. Miranda, PhD, Professor, Department of Neuroscience and Experimental Therapeutics, College of Medicine, Texas A&M University Health Science Center, Bryan, TX, USA

- Immune Dysregulation in FASD: Programming of Health and Neurobehavioral Outcomes
  - Joanne Weinberg, PhD, Professor and Distinguished University Scholar, Emerita, Department of Cellular & Physiological Sciences, University of British Columbia, Vancouver, BC, Canada

- A Growth Modeling Approach to Predicting Future Neurodevelopmental Performance in Preschool Children with PAE
  - Christina Chambers, PhD, MPH, Professor, Department of Pediatrics and Family Medicine and Public Health, School of Medicine; Co-Director, Center for Better Beginnings; University of California San Diego, La Jolla, CA, USA
**PART -3 -AUTOMATING THE DIAGNOSIS AND TREATMENT OF FAS**

- Development and Implementation of a Mobile Screening Tool for Identification of Children Affected by Prenatal Alcohol
  - Sarah Mattson, PhD, Professor, Department of Psychology, San Diego State University, San Diego, CA, USA
- 3D Facial Analysis for the Objective Identification of FASD Associated Facial Dysmorphism
  - Michael Suttie, PhD, Researcher, Medical Image Analysis, Nuffield Department of Women's Reproductive Health, University of Oxford, Oxford, UK
- Families Moving Forward – Connect: Developing a Mobile Health Intervention for Families Raising Children with FASD
  - Christie Petrenko, PhD, Clinical Psychologist and Researcher, Mt. Hope Family Center, University of Rochester, Rochester, NY, USA
  - Cristiano Tapparello, PhD, Research Associate, Department of Electrical and Computer Engineering, University of Rochester, Rochester, NY
THANK YOU

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