

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Neuropsychiatric and Neurodevelopmental Disorders: Harnessing Rare Variants (EK13)

February 11-11, 2021 • Virtual at your computer

Scientific Organizers: Jennifer G. Mulle, Audrey Thurm, Christa L. Martin and Carrie E. Bearden

Sponsored by Ultragenyx Pharmaceutical Inc.

### THURSDAY, FEBRUARY 11

#### Welcoming Remarks (8am Denver/Mountain Time Start)

\***Jennifer G. Mulle**, Emory University School of Medicine, USA  
*Session Chair*

#### Neuropsychiatric and Neurodevelopmental Disorders (8:10am Denver/Mountain Time Start)

\***Audrey Thurm**, NIMH, National Institutes of Health, USA  
*Session Chair*

\***Christa L. Martin**, Geisinger Health, USA  
*Session Chair*

**Elise Robinson**, Harvard T.H. Chan School of Public Health and Broad Institute, USA  
*Genetic Clues to Autism Heterogeneity*

**Jacob Vorstman**, University of Toronto, Canada  
*Genetics of Neuropsychiatric Disorders: Lessons Learned and Clinical Implications*

**Wendy K. Chung**, Columbia University, USA  
*Complexities of Genetic Conditions Associated with Autism Spectrum Disorders*

**John N. Constantino**, Washington University School of Medicine, USA  
*Reconciling Rare Variants, Inheritance, and Diagnosis in Autism: A "Grand Unified Theory" to Guide Biomarker Discovery and Higher-Impact Intervention*

**Stephan Sanders**, University of California, San Francisco, USA  
*Heterogeneity of Genotype-Phenotype Relationships in Neurodevelopmental Delay*

**Mustafa Sahin**, Boston Children's Hospital, USA  
*Mechanism-based Biomarker and Treatment Trials in the Neurology of TSC*

#### Panel Discussion (11:20am Denver/Mountain Time Start)

\***Carrie E. Bearden**, University of California Los Angeles, USA  
*Session Chair*

\***Jennifer G. Mulle**, Emory University School of Medicine, USA  
*Session Chair*

**John N. Constantino**, Washington University School of Medicine, USA

**Elise Robinson**, Harvard T.H. Chan School of Public Health and Broad Institute, USA

**Stephan Sanders**, University of California, San Francisco, USA

**Jacob Vorstman**, University of Toronto, Canada

**Wendy K. Chung**, Columbia University, USA

**Mustafa Sahin**, Boston Children's Hospital, USA

**Ricardo E. Dolmetsch**, uniQure, USA

**Bina Shah**, Commission on Neurodevelopmental CNVs, USA

#### Closing Remarks (12:05pm Denver/Mountain Time Start)

\***Carrie E. Bearden**, University of California Los Angeles, USA  
*Session Chair*

#### Networking Lounge (12:10pm Denver/Mountain Time Start)