

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Pathways of Neurodevelopmental Disorders (C8)

March 16-20, 2015 • Granlibakken Resort • Tahoe City, California, USA
Scientific Organizers: Randi J. Hagerman, Mustafa Sahin and Paul J. Hagerman
Supported by the Directors' Fund

Abstract & Scholarship Deadline: November 18, 2014 / Abstract Deadline: December 16, 2014 / Discounted Registration Deadline: January 15, 2015

MONDAY, MARCH 16

Registration

TUESDAY, MARCH 17

Keynote Address

Eric Klann, New York University, USA
Translating Translational Control: The Key to Multiple Neurodevelopmental Disorders

Targeted Treatments

Mustafa Sahin, Children's Hospital Boston, USA
Targeted Treatments for Tuberous Sclerosis
Walter Kaufmann, Boston Children's Hospital, USA
Targeted Treatments for Rett Syndrome
Randi J. Hagerman, University of California, Davis, USA
Targeted Treatments for Fragile X Syndrome
William C. Mobley, University of California, San Diego, USA
Targeted Treatments for Down Syndrome
Short Talk(s) Chosen from Abstracts

Emerging Targeted Treatments

Katherine A. Rauen, University of California, San Francisco, USA
Rasopathies: Emerging Targeted Treatments
Edwin J. Weeber, University of South Florida, USA
Targeted Treatment of Angelman Syndrome
Peter Scheiffele, Biozentrum, University Basel, Switzerland
Synaptic Pathophysiology and Treatment Strategies for ASD
Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, MARCH 18

RNA Toxicity and Mitochondrial Dysfunction Across Neurodevelopmental Disorders

Paul J. Hagerman, University of California, Davis, USA
RNA Toxicity in Fragile X Premutation Disorders in Development and Aging
Claes Wahlestedt, University of Miami, Miller School of Medicine, USA
Drugging the Epigenome
Douglas C. Wallace, Children's Hospital of Philadelphia, USA
Mitochondrial Dysfunction in Neurodevelopmental Disorders
Speaker to be Announced
Short Talk(s) Chosen from Abstracts

Neurobiological Consequences of Seizures

Samuel S.-H. Wang, Princeton University, USA
New Tools to Investigate Information Processing
Timothy A. Benke, University of Colorado Denver, USA
FMRP Depletion at the Tips of Dendrites with Seizures
Tallie Z. Baram, University of California, Irvine, USA
Epigenetic Mechanisms in Epilepsy: Basis for Targeted Interventions
Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, MARCH 19

Epigenetic Changes and Environmental Toxicity in Neurodevelopmental Disorders

Mriganka Sur, Massachusetts Institute of Technology, USA
Epigenetic Mechanisms Underlying Synapse Plasticity
Isaac Pessah, University of California, Davis, USA
Gene by Environment Epigenetic Changes Related to Toxins in Neurodevelopmental Disorders
Speakers to be Announced
Short Talk(s) Chosen from Abstracts

Emerging New Treatments and Biomarkers

Flora Tassone, University of California, Davis, USA
Biomarkers for Targeted Treatments in Neurodevelopmental Disorders
Ricardo E. Dolmetsch, Novartis Institutes for BioMedical Research, USA
iPSC Derived Neurons
Short Talk Chosen from Abstracts
Yehezkel Ben-Ari, INMED UMR901, France
GABAergic Excitation

FRIDAY, MARCH 20

Departure