New Directions in Neurodevelopmental Disorders
Symposium
November 21, 2016

8:00 am    Registration & Continental Breakfast

8:30 am    Welcoming Remarks and Introduction of Morning Speakers
Jordan Smoller, MD, ScD
MGH Trustees Endowed Chair in Psychiatric Neuroscience
Professor of Psychiatry, Harvard Medical School
Director, Psychiatric and Neurodevelopmental Genetics Unit,
Massachusetts General Hospital

8:45 am    Case Presentation: Multidisciplinary Perspectives on Neurodevelopmental Disorders
Moderated by Jordan Smoller

Michael E. Talkowski, Ph.D.
Desmond and Ann Heathwood Research Scholar
Associate Professor of Neurology, Harvard Medical School
Departments of Neurology, Psychiatry, and Pathology
Center for Human Genetic Research, Massachusetts General Hospital
Co-Director, Broad Structural Variation and Assembly Group
Broad Institute of MIT and Harvard

Helen Tager Flusberg, PhD
Professor, Department of Psychological & Brain Sciences, Boston University
Professor, Department of Anatomy & Neurobiology, Boston University
Director, Center for Autism Research Excellence

Sarah Spence, MD, PhD
Co-Director, Autism Spectrum Center, Boston Children’s Hospital
Assistant Professor of Neurology, Harvard Medical School

9:45 am    New Frontiers in the Genetics of Neurodevelopmental Disorders

Interplay of common and rare variation in psychiatric disease
Mark J. Daly, PhD
Chief, Analytic and Translational Genetics Unit, Massachusetts General Hospital
Associate Professor of Medicine, Harvard Medical School, Massachusetts General Hospital
Institute Member, Co-Director, Program in Medical and Population Genetics, Broad Institute of Harvard and MIT
Autism, brain development, and human evolution
Christopher Walsh, MD, PhD
Professor of Pediatrics and Neurology, Harvard Medical School
Chief, Division of Genetics and Genomics, Boston Children’s Hospital
Investigator, Howard Hughes Medical Institute

10:45
Break

11:00 am Developmental Considerations and Early Detection

Correcting trajectories of brain development
Takao Hensch, PhD
Professor of Neurology, Harvard Medical School at Boston Children’s Hospital
Professor of Molecular and Cellular Biology, Center for Brain Science at Harvard University

Reduced GABAergic Action in the Autistic Brain: Neuroimaging and Behavioral Evidence
Caroline Robertson, PhD
Junior Fellow, Harvard Society of Fellows
Harvard University

Immune Mechanisms of Synapse Loss in Neurodevelopmental Disorders
Beth Stevens, PhD
Assistant Professor of Neurology,
FM Kirby Neurobiology Program
Boston Children’s Hospital
Harvard Medical School

12:30 pm
Box lunch
Poster session

1:30 pm Introduction of Afternoon Speakers

Mriganka Sur, PhD
Paul E. Newton Professor of Neuroscience
The Picower Institute for Learning and Memory
Simons Center for the Social Brain, Director
Department of Brain and Cognitive Sciences
Massachusetts Institute of Technology

1:45 pm New Approaches to the Neurobiology of Neurodevelopmental Disorders

Dissecting synaptic and circuitry mechanisms of autism
Guoping Feng, PhD
Poitras Professor of Neuroscience, McGovern Institute for Brain Research and Cognitive Sciences, Massachusetts Institute of Technology
Director, Model Systems and Neurobiology, Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard
Applications and opportunities for genome editing in treating neurodevelopment disorders

Sourav R. Choudhury, PhD
Postdoctoral associate
Laboratory of Feng Zhang
Broad Institute of Harvard and MIT
McGovern Institute for Brain Research and Cognitive Sciences, Massachusetts Institute of Technology

A cognitive neuroscience approach to the early identification of autism

Charles A. Nelson III, PhD
Professor of Pediatrics and Neuroscience, Harvard Medical School
Professor of Education, Harvard University
Richard David Scott Chair in Pediatric Developmental Medicine Research, Boston Children’s Hospital

3:15 pm  Break

3:30 pm  Current Clinical Controversies in Neurodevelopmental Disorders
          Moderated by Lisa Prock, MD, MPH

Jean Frazier, MD
Executive Director, Eunice Kennedy Shriver Center
Robert M. and Shirley S. Siff Endowed Chair in Autism
Professor of Psychiatry and Pediatrics
Vice Chair, Department of Psychiatry
Director, Division of Child and Adolescent Psychiatry

Ann Neumeyer, MD
Medical Director, Lurie Center, Massachusetts General Hospital for Children
Assistant Professor of Neurology, Harvard Medical School

4:30 pm  Closing Remarks
Mustafa Sahin, MD, PhD
Director, Translational Neuroscience Center
Boston Children’s Hospital

4:45 pm  Adjourn