AGENDA

DAY 1 — MONDAY, JULY 16, 2012

8:30 A.M. REGISTRATION AND CONTINENTAL BREAKFAST

9:00 A.M. Overview of the National Institute of Child Health and Human Development (NICHD) Brain and Tissue Bank and this Workshop
H. Ronald Zielke, Ph.D. — The Eunice Kennedy Shriver NICHD Brain and Tissue Bank for Developmental Disorders, University of Maryland

Session I: Contributions of Post-Mortem Tissue to the Study of Human Developmental Changes and Diseases
Moderator: Joel Kleinman, M.D., Ph.D. — National Institute of Mental Health (NIMH), National Institutes of Health (NIH)

9:30 A.M. Evolution, Development and Disorders of Neural Circuits of the Human Cerebral Cortex
Nenad Sestan, Ph.D. — Yale University

10:00 A.M. Epigenome Mapping in Developing and Diseased Prefrontal Cortex. A Post-Mortem Study Across the Life Span of the Human Brain
Schahram Akbarian, M.D., Ph.D. — Mount Sinai School of Medicine

10:30 A.M. Human Brain Development and Risk for Schizophrenia
Joel Kleinman, M.D., Ph.D. — NIMH, NIH

11:00 A.M. Somatic Mutation and Genetic Diversity in the Human Cerebral Cortex
Christopher Walsh, M.D., Ph.D. — Children’s Hospital Boston

11:30 A.M. Roundtable I: Significance of Developmental Studies with Post-Mortem Tissue

12:00 NOON LUNCH (PROVIDED BY UNIVERSITY OF MARYLAND)

Session II: Defining Underlying Biological Alterations in Autism Spectrum Disorder (ASD) at the Cellular and Neurochemical Level
Moderator: Gene J. Blatt, Ph.D. — Boston University School of Medicine

1:00 P.M. The Importance of ASD Phenotyping in Post-Mortem Research
Audrey Thurm, Ph.D. — NIMH, NIH
1:30 P.M. Fragile X Mental Retardation Protein (FMRP) and Gamma-Amino Butyric Acid (GABA) Signaling in Autism  
S. Hossein Fatemi, M.D., Ph.D. — University of Minnesota

2:00 P.M. GABAergic Abnormalities in the Autism Brain: Emerging Ideas from Post-Mortem Studies  
Gene J. Blatt, Ph.D. — Boston University School of Medicine

2:30 P.M. BREAK

2:45 P.M. Developmental Cortical Patterning Abnormalities and Pathological Age-Related Changes in Autism  
Eric Courchesne, M.D. — Children’s Hospital Health Center

3:15 P.M. Results of Application of New Methods of Tissue Handling, Distribution, and Sharing for Research on Autism  
Jerzy Wegiel, V.M.D., Ph.D. — New York State Institute for Basic Research

3:45 P.M. Post-Mortem Brain Resources are Critical for Understanding the Gene-Environment-Epigenetic Interface in Autism-Spectrum Disorders  
Janine M. LaSalle, Ph.D. — University of California School of Medicine

4:15 P.M. Roundtable II: Autism – Integrating Results

5:15 P.M. ADJOURN
DAY 2 — TUESDAY, JULY 17, 2012

8:00 A.M. REGISTRATION AND CONTINENTAL BREAKFAST

8:30 A.M. Human Neurobiobank: A Platform for 21st Century Translational Research
A. Roger Little, Ph.D. — NIMH, NIH

Session III: The Contribution of Human Post-Mortem Tissue for the Study of Multiple Developmental Disorders
Moderator: P.J. Brooks, Ph.D. — National Institute on Alcohol Abuse and Alcoholism (NIAAA) and Office of Rare Diseases Research (ORDR), National Center for Advancing Translational Sciences (NCATS), NIH

8:40 A.M. Quantitative Trait Loci Mapping in the Human Brain
Bryan Traynor, M.D. — National Institute on Aging (NIA), NIH

9:05 A.M. Mitochondrial Disorders
Michio Hirano, M.D. — Columbia University Medical Center

9:30 A.M. X-linked Adrenoleukodystrophy: From Post-Mortem Tissue to Pathomechanism
Florian Eichler, M.D. — Massachusetts General Hospital

9:55 A.M. BREAK

Jonathan Pevsner, Ph.D. — Johns Hopkins Medicine

10:35 A.M. Studies of Neurologic Disease in Hereditary DNA Repair Disorders: Xeroderma Pigmentosum, Ataxia Telangiectasia, and Cockayne Syndrome
P.J. Brooks, Ph.D. — NIAAA, NIH

11:00 A.M. Mapping Gene Expression and Connections in the Central Nervous System (CNS): Tools and Data from the Allen Institute for Brain Science
Allan Jones, Ph.D. — Allen Institute for Brain Science


12:00 NOON Challenges for a Brain and Tissue Bank
H. Ronald Zielke, Ph.D. — NICHD Brain and Tissue Bank for Developmental Disorders, University of Maryland

12:10 P.M. CLOSING REMARKS

12:30 P.M. ADJOURN