Sunday, October 9th

4:30pm  Opening Reception  Top of the Park
6:00pm  Dinner  Top of the Park
7:30pm  Session 1 – Oligodendrocyte Development and Myelination: Molecular Mechanisms in Health and Disease  Grandview I

*Chair: Pablo Paez, University of Buffalo*

**Leandro Marziali, University of Buffalo**  
*A Novel Stress-Activated Inhibitor of Myelination*

**Yannick Poitelon, Albany Medical College**  
*Role of YAP and TAZ in Oligodendrocytes*

**Yungki Park, University of Buffalo**  
*Regulatory Mechanism Governing Plp1 Expression for Central Nervous System Myelination*

**Pablo Paez, University of Buffalo**  
*Modulation of Oligodendrocyte Development and Myelination by Voltage-Gated Calcium Channels*
Monday, October 10th

8:00am  Breakfast  Top of the Park

8:45am  Keynote Presentation  Grandview I

   Keith Murai, McGill University

   Astrocyte Heterogeneity and Nanoarchitecture in the CNS

9:45am  Break

10:00am  Session 2 – Astrocyte Heterogeneity in Health and Disease  Grandview I

   Co-Chairs:  Keith Murai, McGill University
               Doug Feinstein, University of Illinois – Chicago

   Zila Martinez, The Children's Hospital of Philadelphia
   Generation of Astrocyte Diversity: Lessons from Transcriptional Regulation of the
   Glutamate Transporter 1 (GLT1)

   José Otero, The Ohio State University College of Medicine
   Brainstem Astrocytes and Their Regulation of Autonomic Homeostasis

   Ryan Gilbert, Rensselaer Polytechnic Institute
   Biomaterial Approaches to Augment Astrocyte Reactivity

   Isobel Scarisbrick, Mayo Clinic
   Modulating Astrocyte Metabolism to Promote CNS Regeneration

Noon  Free time

3:30pm  Poster Session  Grandview II

4:30pm  Session 3 – Microglia in Health and Disease  Grandview I

   Chair:  Tyler Ulland, University of Wisconsin – Madison

   Kathryn Lenz, The Ohio State University
   Prenatal Allergic Inflammation, Mast Cell-Microglia Interactions, and Sex-Specific
   Programming of Motivated Behavior

   Tyler Ulland, University of Wisconsin – Madison
   Inhibition of the Nlrp3 Inflammasome by 6-Hydroxybutyrate Decreases Alzheimer’s
   Disease Pathology

   Sebastian Werneburg, University of Michigan
   Microglia and the Elimination and Recovery of Synapses in Demyelinating Disease

   Subhash Pandey, University of Illinois – Chicago
   Neuroinflammation Signatures in the Pathophysiology of Alcohol Use Disorder

7:00pm  Dinner  Top of the Park

8:30pm  Posters and Refreshments  Grandview II
Tuesday, October 11th

7:30am   Breakfast                      Top of the Park
8:15am   Keynote Presentation          Grandview I
          R. Douglas Fields, NICHD
          Regulation of Myelin and Conduction Velocity by Action Potentials
9:15am   Break
9:30am   Session 4 – The Contribution of Glia-Associated Mechanisms to Pathological Endophenotypes of Complex Behaviors
          Chair:  Sinead O’Donovan, The University of Toledo
          Sarah Elzinga, University of Michigan
          Metabolism and Obesity Effects on Microglia
          Marissa Smail, The University of Toledo
          Animal Model Characterizing the Consequences of Microglial Loss
          Sinead O’Donovan, The University of Toledo
          Effects of Psychotropic Medications on Astrocytes Using a Bioinformatics Approach
          Hayley McLoughlin, University of Michigan
          Non-neuronal Contributions to Neurodegeneration: A Role for Oligodendrocytes in Spinocerebellar Ataxia
11:30am  Lunch Break Out
12:00pm  Session 5 – Glial Responses to Disease and Therapy in Demyelinating Conditions
          Chair:  Ernesto Bongarzone, University Illinois – Chicago
          Sarah Lutz, University Illinois – Chicago
          Glial Response to Respiratory SARS-CoV-2 Infection is Modified by Age
          Stephen Crocker, University of Connecticut
          Impact of Cellular Aging on Glial Responses and CNS Remyelination
          Anne Boullerne, University Illinois – Chicago
          Rediscovery of Pio del Rio Hortega Myelinic Channel System using Fluorescent Markers
          Ernesto Bongarzone, University Illinois – Chicago
          Adult-Onset Focal Demyelination after Neonatal AAV-Gene Therapy in Leukodystrophies
2:00pm   End of Meeting