

Great Lakes Glia 2022

PARK PLACE HOTEL & CONFERENCE CENTER

Traverse City, MI

<https://greatlakesglia.org>

Schedule

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 <i>Chair: Pablo Paez, University of Buffalo</i> Leandro Marziali, University of Buffalo <i>A Novel Stress-Activated Inhibitor of Myelination</i> Yannick Poitelon, Albany Medical College <i>Role of YAP and TAZ in Oligodendrocytes</i> Yungki Park, University of Buffalo <i>Regulatory Mechanism Governing Plp1 Expression for Central Nervous System Myelination</i> Pablo Paez, University of Buffalo <i>Modulation of Oligodendrocyte Development and Myelination by Voltage-Gated Calcium Channels</i>	Grandview I

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Schedule

Monday, October 10th

8:00am	Breakfast	Top of the Park
8:45am	Keynote Presentation Keith Murai, McGill University <i>Astrocyte Heterogeneity and Nanoarchitecture in the CNS</i>	Grandview I
9:45am	Break	
10:00am	Session 2 – Astrocyte Heterogeneity in Health and Disease Co-Chairs: Keith Murai, McGill University Doug Feinstein, University of Illinois – Chicago Zila Martinez, The Children’s Hospital of Philadelphia <i>Generation of Astrocyte Diversity: Lessons from Transcriptional Regulation of the Glutamate Transporter 1 (GLT1)</i> José Otero, The Ohio State University College of Medicine <i>Brainstem Astrocytes and Their Regulation of Autonomic Homeostasis</i> Ryan Gilbert, Rensselaer Polytechnic Institute <i>Biomaterial Approaches to Augment Astrocyte Reactivity</i> Isobel Scarisbrick, Mayo Clinic <i>Modulating Astrocyte Metabolism to Promote CNS Regeneration</i>	Grandview I
Noon	Free time	
3:30pm	Poster Session	Grandview II
4:30pm	Session 3 – Microglia in Health and Disease Chair: Tyler Ulland, University of Wisconsin – Madison Kathryn Lenz, The Ohio State University <i>Prenatal Allergic Inflammation, Mast Cell-Microglia Interactions, and Sex-Specific Programming of Motivated Behavior</i> Tyler Ulland, University of Wisconsin – Madison <i>Inhibition of the Nlrp3 Inflammasome by 6-Hydroxybutyrate Decreases Alzheimer’s Disease Pathology</i> Sebastian Werneburg, University of Michigan <i>Microglia and the Elimination and Recovery of Synapses in Demyelinating Disease</i> Subhash Pandey, University of Illinois – Chicago <i>Neuroinflammation Signatures in the Pathophysiology of Alcohol Use Disorder</i>	Grandview I
7:00pm	Dinner	Top of the Park
8:30pm	Posters and Refreshments	Grandview II

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Schedule

Tuesday, October 11th

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