



University of Illinois at Chicago

Molecular Biology Research Building (MBRB)

900 S. Ashland (enter on Marshfield Avenue)

Thursday, February 13th 2020

8:00 AM Registration and Poster Setup

8:45 AM Introduction and Opening Comments

9:00 AM Neurovascular Fundamentals

- Sepideh Amin-Hanjani, MD, UIC. *"Vertebrobasilar Flow Evaluation and Risk of Transient Ischemic Attack and Stroke (VERITAS) Study"*
- Henar Cuervo, PhD, UIC. *"Notch signaling in pericytes"*
- Joseph Geraghty, UIC. *"Hemin-induced activation of microglial phagocytosis and therapeutic targeting using the TLR4 antagonist TAK-242"*
- Quinn Lee, UIC. *"N-cadherin adhesion induces the assembly of occludin tight junctions to maintain the BBB"*

10:30 AM Coffee break

11:00 AM Neurovascular Inflammation

- Martin Hsu, University of Wisconsin Madison. *"Neuroinflammation dynamically regulates CNS lymphatic vasculature"*
- Kelly Langert, PhD, Loyola University. *"Targeted Drug Delivery to the Inflamed Peripheral Nerve Endothelium"*
- Sarah Lutz, PhD, UIC. *"Transcellular & paracellular BBB permeability in multiple sclerosis"*
- Ayush Batra, MD, Northwestern University. *"Intravital high resolution imaging of neuroinflammation in acute stroke"*

12:35 PM Lunch and Poster Competition

2:00 PM Neurovascular Degeneration

- Melissa Lamar, PhD, Rush University. *"Cerebrovascular disease phenotypes and associated cognition profiles: A clinical-neuropathological study"*
- Leon Tai, PhD, UIC. *"The role of APOE genotype in modulating cerebrovascular function"*
- Kejia Cai, PhD, UIC. *"The Development of Advanced Neurovascular MRI for Preclinical Research"*
- Rachel Knopp, UIC. *"Nonselective calpain-cathepsin inhibition preserves BBB-dysfunction in an oxidative-stress based TBI model"*

3:30 PM Coffee break

4:00 PM Current Topics

- Kari Bonner, Advanced Cell Diagnostics. *"Confirmation and spatial mapping of diverse gene signatures by incorporation of multiplex in situ hybridization technology into single cell RNA sequencing workflows"*
- Qanber Raza, UIC. *"Notch signaling based screen identifies axon guidance receptor Unc5b as a genetic modulator of endothelial cell migration and cell-cell adhesion"*
- Joseph Leasure, UIC. *"Vascularization of human iPSC-derived Cerebral Organoids"*
- Aashutosh Shetti, UIC. *"Depletion of Caveolin-1 in Type-2 Diabetes Model Induces Alzheimer's disease Pathology"*

5:00 PM Closing Comments

