ISC Pre-Conference Symposium II: Stroke in the Lab World: Novel Approaches in Studying Brain Metabolism and Function

Tuesday, Feb 18
9:30 am – 5:25 pm

9:30  Welcome

9:40 am - 11:15 am
Lipid Metabolism and Function in Inflammation Resolution
Pro-resolving Lipid Mediators in the Resolution of Inflammation
Dysregulation of Resolution Pathway in Vascular Diseases
Lipid Mediators in Health and Diseases
Discussion

11:15 am – 11:30 am
Break

11:30 am – 1:05 pm
Epigenetics in Stroke Pathology and Recovery
Epitranscriptomic Alterations of mRNAs in Ischemic Brain Damage
Regulation of Inflammation in Stroke by Epigenetics
Epigenetic Regulation of White Matter Preconditioning
Discussion

1:05 pm – 2:00 pm
Lunch

2:00 pm – 3:35 pm
Neurometabolic and Neurovascular Coupling Across Spatiotemporal Scales
Optical Imaging Strategies for Activity of Individual Neurons
Two-photon Imaging of BOLD fMRI Physiology
Quantitative BOLD at 3 Tesla for Flow-metabolism Coupling
Discussion

3:35 pm – 3:50 pm
Break

3:50 pm – 5:20 pm
Multi-modal Imaging in CNS Disorders
High-field MRS Neurochemistry of Brain Disorders
Tissue Oxygen Tension Imaging at the Microscopic Scale
BBB Disruption in Neurodegeneration
Discussion

5:20  Closing Remarks

ISC Pre-Conference Symposium II: Stroke in the Lab World 2020 Faculty (as of Oct 23)
Katerina Akassoglou, PhD, San Francisco, CA
Thiruma Arumugam, PhD, Singapore
Craig Brown, PhD, Victoria, BC, Canada
Sunghee Cho, PhD, White Plains, NY
Anil Kiran Chokkalla, MS, Madison, WI
Fahmeed Hyder, PhD, New Haven, CT
Kazuto Masamoto, PhD, Tokyo, Japan
Nozomi Nishimura, PhD, Ithaca, NY
Bojana Stefanovic, PhD, Toronto, ON, Canada
Dandan Sun, MD, PhD, Pittsburgh, PA
Raghu Vemuganti, PhD, Madison, WI

For up-to-the-minute program information and speakers, please see the online ISC 2020 Program Planner at strokeconference.org.