

Thursday July 31, 2025

7:30-8:00a		Registration and Coffee with Light Breakfast
8:00-8:30a	Welcome and Opening Remarks	Vincent Tutino, Introduction Allison Brashear, Welcome
8:30-10:00a	Session 1: Stroke Biology and Genetics	Chairs: Marc Halterman, Vincent Tutino, Christopher Kellner
8:30a	<i>Hemorrhagic Infarct Before Thrombectomy on MRI is Associated with Worse Outcome After Treatment: A Multicenter Bayesian Analysis</i>	Robert Regenhardt University of Texas at Houston
8:45a	<i>Lung-Brain Coupling in Post-Ischemic Cerebral Reperfusion Injury</i>	Marc Halterman University at Buffalo
9:00a	<i>Multi-Omic Characterization of Thrombectomy-Retrieved Clots Identifies Signatures of Ischemic Stroke Etiology in the INSIGHT Registry</i>	Christopher Kellner Mt. Sinai Health System
9:15a	<i>Intra-Arterial Thrombolytics After Successful Recanalization in Endovascular Thrombectomy for LVO Acute Ischemic Stroke: A Comprehensive Meta-Analysis of Randomized Controlled Trials</i>	Lee Wei Jun Boston Medical Center
9:30a	<i>Immunologically Muted TICI 3 Emboli: Proteomic and Functional Insights into Stroke Reperfusion</i>	Santiago Mendoza-Ayus University of Rochester
9:45a	<i>The Single Cell Immune Landscape of Human Clots</i>	Charles Matouk Yale University
10:00-10:15a		Coffee and Snack Break
10:15-11:45a	Session 2: New Advancements in ICAD	Chairs: Sepideh Amin-Hanjani, Nandor Pinter, Sricharan Veeturi
10:15a	<i>ICAD Imaging Biomarker Development Using Real World Data – Introducing the Buffalo ICAD Database</i>	Nandor Pinter University at Buffalo
10:30a	<i>Flow Measurements as a Biomarker of Stroke in Intracranial Stenosis</i>	Ali Alaraj University of Illinois Chicago
10:45a	<i>Oral Dysbiosis and Impaired Immune Response is Associated with Aneurysmal Disease</i>	Josh Geiger University of Rochester
11:00a	<i>Imaging Biomarkers for Stroke Risk in ICAD</i>	Sepideh Amin-Hanjani University Hospitals Cleveland Medical Center
11:15a	<i>Theranostics in Intracranial Atherosclerosis – Leveraging Diagnostics for Therapeutics</i>	David Leibskind UCLA
11:30a	<i>Hemodynamic Evaluation of Plaque Phenotypes in Patients with Intracranial Atherosclerotic Disease</i>	Sricharan Veeturi University at Buffalo

11:45a-12:35p Lunch and Poster Session		
12:35-2:25p	Session 3: <i>Innovations in Understanding and Treating ICH</i>	Chairs: Jason Davies, Dan Hanley, Daniel Woo
12:35-1:05p	Keynote Session 1: ICH Gaps in knowledge about Minimally Invasive Surgery	Dan Hanley Johns Hopkins University
1:05p	<i>RNA Sequencing Acutely After ICH</i>	Stacie Demel University of Cincinnati
1:20p	<i>Continuous Irrigation with the IRRFlow System for Intraventricular Hemorrhage: A Single-Center Pilot Study</i>	Christopher Kellner Mt. Sinai Health System
1:35p	<i>Longitudinal Differential Tractography After ICH</i>	Daniel Woo University at Buffalo
1:50p	<i>Minimally Invasive Evacuation of Intracranial Hemorrhages Using the Aurora Surgiscope System: Preliminary Experience</i>	Vinay Jaikumar University at Buffalo
2:05-2:25p	Keynote Session 2: REASSESS Trial Results	Wendy Ziai Johns Hopkins University
2:25-2:40p Coffee and Snack Break		
2:40-4:10p	Session 4: <i>Hemorrhagic Stroke</i>	Chairs: Devin McBride, Robert Regenhardt, David Hasan
2:40p	<i>Intraarterial Encephalography from an Acutely Implanted Aneurysm Embolization Device in Awake Humans</i>	David Hasan Duke University
2:55p	<i>Late-Onset Vasospasm in Aneurysmal Subarachnoid Hemorrhage</i>	Alvin Das (R. Regenhardt) Beth Israel Deaconess Medical Center
3:10p	<i>Thromboinflammation Causes Delayed Cerebral Ischemia after SAH</i>	Devin McBride University of Texas at Houston
3:25p	<i>Widespread Neuroinflammation in the Cerebral Cortex Following Subarachnoid Hemorrhage</i>	Hiroki Yamada Mihara Memorial Hospital
3:40p	<i>Adropin-Mediated Neurovascular Protection Following Subarachnoid Hemorrhage</i>	Koji Hosaka University of Florida
4:10p	Close of Day 1	Vincent Tutino
6:00-9:00p	Dinner at the VUE Rooftop Bar and Restaurant	

Friday August 1, 2025

7:30-8:00a	Registration and Coffee with Light Breakfast	
8:00-8:30a	Keynote Session 3: Sharing the Voice of the Impacted, and How We Can Make a Difference Together	Christine Buckley Brain Aneurysm Foundation
8:30-10:00a	Session 5: Intracranial Aneurysm Biomechanics	Chairs: Yongho Bae, John Kolega, Anne Robertson
8:30a	<i>High Wall Shear Stress and Cyclic Stretch Synergize to Trigger Intracranial Aneurysm Induction</i>	Tomohiro Aoki Jilei University
8:45a	<i>Protect Finns: An Ongoing Study to Develop Personalized Medicine for Persons with Intracranial Aneurysms</i>	Juhana Frösén Tampere University
9:00a	<i>The Role of Vasa Vasorum in Cerebral Arteries and Aneurysms – Friend and/or Foe?</i>	Anne Robertson University of Pittsburgh
9:15a	<i>CFD-Based Assessment of Hemodynamics in Intracranial Aneurysms Following the Virtual Deployment of the Contour Neurovascular System</i>	Gabor Janiga Otto Von Guericke University
9:30a	<i>Investigation of Vasa Vasorum and Hypoxia in Human Intracranial Aneurysms</i>	Yasataka Tobe University of Pittsburgh
9:45a	<i>The Role of Survivin in Vascular and Cerebrovascular Mechanobiology and Pathology</i>	Yongho Bae University at Buffalo
10:00-10:15a	Coffee and Snack Break	
10:15-11:30a	Session 6: Intracranial Aneurysm Natural History and Biology	Chairs: Tomohiro Aoki, Juhana Frösén, Kerry Poppenberg
10:15a	<i>The Specific Molecular Mechanisms Regulating the Rupture of Intracranial Aneurysm Distinct from the Initiation or the Growth</i>	Masahiko Itani Kyoto University
10:30a	<i>Pharmacological Clearance of Senescent Cells Prevents Intracranial Aneurysm Rupture in Aged Mice</i>	Hiroki Sato Barrow Neurological Institute
10:45a	<i>Lymphatic Vessels in the Intracranial Aneurysm Wall: A Novel Component in Aneurysm Pathobiology</i>	Nora Firster Kuopio University Hospital
11:00a	<i>Fibrin Accumulation after Flow Diversion: Aneurysm and Jailed Branches</i>	Juan Cebal George Mason University
11:15a	<i>Analysis of Symptomatic Brain Aneurysm Presentation with Three-Dimensional Aneurysm Wall Enhancement</i>	Edgar Samaniego University of Iowa
11:30a-12:00p	Keynote Session 4: The Innovation Ecosystem	Adnan Siddiqui University at Buffalo

12:00-1:00p	Lunch and Startup Roundtable/Innovation Panel	Moderators: Smitha James, Norma Nowak, Olga Petrova, Per Stromhaug CBLIS, University at Buffalo
1:00-2:35p	<i>Session 7: Advancements in IA Treatment and Devices</i>	Chairs: Nicole Cancelliere, Adam Dmytriw, Robert Regenhardt
1:00-1:20p	Keynote Session 5: Emerging Tech, Novel Stroke Devices, and FDA Regulation – A Roadmap to Getting Devices to the US Marketplace	Carlos Pena The Jacobs Institute
1:20p	<i>The Association between Low Fractional Flow (FF) and Revascularization Efficacy in Symptomatic Intracranial Atherosclerotic Stenosis</i>	Jianping Xiang ArteryFlow Technology Co.
1:35p	<i>Enhanced Super Large Bore Aspiration Catheter Navigability in Complex Neurovascular Anatomy</i>	Naoki Kaneko University of California, Los Angeles
1:50p	<i>Development of a First Coil Prediction Model for Unruptured Cerebral Aneurysms Using Surgeon-Oriented Morphological Features and Machine Learning</i>	Takuto Furukawa Tokyo University of Science
2:05p	<i>International Study of Intracranial Aneurysm Embolization using the Woven EndoBridge (WEB) Device: Synopsis of the WorldWideWEB Consortium</i>	Adam Dmytriw Oxford University
2:20p	<i>An update on Robotics in NeuroIR: Are We Ready for Remote?</i>	Nicole Cancelliere Unity Health Toronto
2:35-2:50p	Coffee and Snack Break	
2:50-4:05p	<i>Session 8: Flow in Cerebrovascular Disease and Aneurysm</i>	Chairs: Ali Alaraj, Juan Cebal, Gabor Janiga
2:50p	<i>Quantifying the Harmful Oscillatory Shear Index Threshold for Endothelial Cells: A Preliminary Assessment</i>	Makoto Ohta Tohoku University
3:05p	<i>Cerebral Flow Dynamics Assessment with 4D Flow MRI</i>	Vitaliy Rayz Purdue University
3:20p	<i>The Forgotten Culprit, the Role of Hemodynamic Stresses in Draining Veins of AVMs</i>	Ali Alaraj University of Illinois Chicago
3:35p	<i>Role of Flow Stagnation and Vasa-Vasorum in Aneurysm Growth</i>	Juan Cebal George Mason University
3:50p	<i>Modelling Point-Spread Functions in Microcirculation: A Proof-of-Concept Study Based on Fick's Law and 1D Navier-Stokes Simulations of Arterial Aneurysm</i>	Maryam Samavaki Tampere University
4:05p	Close of Day 2	Vincent Tutino
5:00-8:00p	Optional Excursion to Niagara Falls (Attendees responsible for own dinner arrangements)	

Saturday August 2, 2025

7:30-8:00a Registration and Coffee with Light Breakfast		
8:00-8:30a	Keynote Session 6: The Role of Biobanking in Facilitating Research Cerebrovascular Research	John Tomaszewski University at Buffalo
8:30-10:00a	Session 9: AI, Big Data, and Predictive Analytics	Chairs: Philippe Bijlenga, Tatsat Patel, John Tomaszewski
8:30a	<i>Topologically Accurate Circle of Willis Modeling from TOF-MRA and CTA Data</i>	Norman Juchler University of Zurich
8:45a	<i>Intervention Planning using Functional Atlases, fMRI, TMS, DTI, Planning Tools and Intra-Operative Mixed Reality</i>	Philippe Bijlenga University of Geneva
9:00a	<i>The Florida Familial Brain Aneurysm Study</i>	Montserrat Lara-Velazquez Baptist Health
9:15a	<i>Disruptive AI Interventions Along the Entire Acute Stroke Care Pathway</i>	Sunil Sheth University Texas at Houston
9:30a	<i>A Machine Learning Approach to Predicting Device Size in Endovascular Treatment of Intracranial Aneurysms for Logistics Optimization</i>	Soichiro Fujimura Tokyo University of Science
9:45a	<i>Management Model Based on the Patient's Initial Condition and the Factors of an Incidentally Discovered Solitary Saccular Aneurysm</i>	Abiram Sandralegar University of Geneva
10:00-10:15a Coffee and Snack Break		
10:15-11:45a	Session 10: Imaging Biomarkers and Radiomics	Chairs: Mahmud Mossa-Basha, Edgar Samaniego, Ciprian Ionita
10:15a	<i>Quantitative MRA in Complications of Aneurysmal Subarachnoid Hemorrhage</i>	Mahmud Mossa-Basha University of Washington
10:30a	<i>Imaging-Guided Precision Thrombectomy: Predicting Optimal Device Choice Using Clot Radiomics and Vascular Morphometrics for AIS Patients</i>	Tatsat Patel University at Buffalo
10:45a	<i>3D Volumetric Analysis for Detecting Subtle Growth in Unruptured Intracranial Aneurysms</i>	Edgar Samaniego University of Iowa
11:00a	<i>Differences in Aneurysm Wall Enhancement on Vessel-Wall MRI using Standard and Advanced Flow Suppression Modules</i>	Owais Khan Toronto Metropolitan University
11:15a	<i>Next-Generation Imaging: 1000 fps High-Speed X-ray Angiography for Real-Time Blood Flow Assessment in Endovascular Diagnosis and Treatment of Aneurysms</i>	Swetadri Vasan Setlur Nagesh University at Buffalo
11:30a	<i>Real-Time Prognosis for Aneurysm Occlusion: Clinical Translation of the QAS.AI Decision-Support System</i>	Ciprian Ionita University at Buffalo

11:45a-12:35p	Lunch and Poster Session	
12:35-2:25p	Session 11: Venous Disease and Glymphatics	Chairs: Jason Davies, Rashad Hussain, Josh Geiger
12:35-1:05p	Keynote Session 7: Post-TBI Pathophysiological Changes in Vasculature and Glymphatic impairment	Rashad Hussain University of Rochester
1:05p	<i>Insights into Venous Congestive Disorders from High-Fidelity CFD</i>	Gurnish Sidora University of Toronto
1:20p	<i>In-silico Investigation of Hemodynamic Fluctuations in Transverse Sinus Stenosis: Pitfalls in Computational Modeling</i>	Gabor Janiga Otto Von Guericke University
1:35p	<i>Who Gets Better? Predictors of Symptom Improvement Following Venous Sinus Stenting in Idiopathic Intracranial Hypertension</i>	Jason Davies University at Buffalo
1:50p	<i>Endovascular and Surgical Treatment of CSF Leak Types 1, 2, and 3</i>	Matthew Bender University of Rochester
2:05-2:25p	Closing Session – Summary	Vincent Tutino, Ciprian Ionita, Daniel Woo Conference Co-Hosts
2:25-3:30p	Free Time for Attendees	
3:30-5:00p	Albright Knox Art Gallery Cocktail Hour and Tour (Optional)	
6:00-9:00p	Dinner at the Terrace at Hoyt Lake	