

Vascular Biology 2025 – Preliminary Program

Annual Meeting of the North American Vascular Biology Organization

Day 1 – Sunday, October 19

2:00-6:00pm	Pre-conference Meeting for Trainees Organizers: Yu Jung Shin, University of Washington and Xiaochen Fan, Stanford U
7:15-9:30pm	Judah Folkman Award in Vascular Biology Presentation and Lecture Yajaira Suárez, Yale University Earl P. Benditt Award Presentation and Lecture – Guidance of Vascular Patterning Anne Eichmann, Yale University
9:30-10:30pm	Welcome Reception

Day 2 – Monday, October 20

7:00-8:00am	Group Breakfast	Networking 101
8:00-10:00am	Regenerative Medicine and Cardiovascular Repair <i>Dynamic In vitro models of vascular growth and injury across scales</i> Ying Zheng, University of Washington <i>A novel angiogenic biomaterial for localized protein delivery improves revascularization and ischemic wound healing</i> Kareen Coulombe, Brown University	Microvascular Dysfunction in Shock <i>Extracellular vesicles in vascular inflammation and barrier dysfunction vascular permeability during sepsis</i> Sarah Yuan, University of South Florida <i>Microvascular heterogeneity in endothelial cell responses in sepsis</i> Audrey Cleuren, Oklahoma Medical Research Foundation
10:30am-12:30pm	Vascular Remodeling in the Uterus and Placenta <i>The impact of the regulation of uteroplacental perfusion on fetal growth: novel animal models and human studies</i> Ramon Lorca, University of Colorado <i>Mechanisms of placental & uterine vascular growth</i> Mark Kahn, University of Pennsylvania	Inflammation in Small Vessels <i>Vascular permeability, cause and consequence</i> Lena Claesson-Welsh, Uppsala University <i>Tracking neutrophil infiltration into the ischemic brain reveals new targets for treating stroke</i> David Sullivan, Northwestern University
12:00-1:45pm	Lunch and Learn for Trainees	Lunch for all others
1:45-3:45pm	Plenary Session: Mechanosensing and Mechanotransduction in the Vasculature <i>Flow-mediated endothelial cell signaling and vascular inflammation</i> Julia Mack, University of California, Los Angeles <i>Flow-induced reprogramming of endothelial cells in atherogenesis</i> Hanjoong Jo, Emory University	
4:00-5:00pm	Nano-talks	Technology Workshop To be determined
5:00-7:00pm	Dinner on your own	
7:00-10:00pm	Poster Sessions	

Day 3 – Tuesday, October 21

7:00-8:00am	Group Breakfast	Career Development Forum Breakfast
8:00-10:00am	Vascular Extracellular Matrix Bioengineering <i>Engineering human blood vessels for modeling and therapeutics</i> Sharon Gerecht, Duke University <i>Matrix-mediated regeneration of vasa vasorum as a treatment for aortic aneurysm</i> Julie Phillippi, University of Pittsburgh	Neuroinflammation <i>Mechanisms of cerebral microvascular dysfunction in AD/ADRD: role of cellular inflammatory mediators</i> Paulo Pires, University of Arizona <i>Vascular contributions to neuroinflammation: novel roles for endothelial tissue-nonspecific alkaline phosphatase</i> Candice Brown, Indiana University School of Medicine

10:30am-12:30pm	Advanced Molecular Mechanisms in Vascular Matrix Remodeling <i>Systems approach to cardiovascular calcification</i> Elena Aikawa, Brigham and Women's Hospital <i>Mineralization in the matrix</i> Cynthia St. Hilaire, University of Pittsburgh	Epigenetic and Post-Transcriptional Control of the Vasculature <i>Sex-specific epigenetic mechanisms in cerebrovascular injury</i> Kahlilia Morris-Blanco, University of Pennsylvania <i>Dynamic epigenetic signatures during vascular development</i> Angie Serrano, Boston University
12:30-1:30pm	Topical Panel Discussion with lunch	Group Lunch
1:30-3:30pm	MCS President's Symposium: Bone Marrow Niche <i>Clonal hematopoiesis: the emergent risk factor</i> Kenneth Walsh, University of Virginia <i>TBD</i> Miriam Cortese-Krott, Heinrich Heine University	
3:30-4:15pm	MCS Landis Award Lecture Recipient to be determined	
4:30-5:30pm	Emerging Topics in Microcirculation Presentations are chosen from abstracts	Blood Vascular Development <i>Higd1b is a unique and conserved gene marker for pericytes</i> Ke Yuan, Boston Children's Hospital <i>How do endothelial cells make adaptive decisions?</i> Katie Bentley, Francis Crick Institute
5:30-7:00pm	Dinner on your own	
7:00-10:00pm	Poster Sessions	
Day 4 – Wednesday, October 22		
7:00-8:00	Group Breakfast	Career Development Forum Breakfast
8:00-10:00am	Lymphatic Vascular Development <i>Chemokine signaling as a guiding cue regulating lymphatic development</i> Xiaolei Liu, Temple University <i>Mechanisms of lymphatic vessel and valve morphogenesis</i> Joshua Scallan, University of South Florida	Innovations in Vascular Tissue Engineering <i>Bioengineered perfused human brain microvasculature to model brain tumor and neurodegenerative diseases</i> Guohao Dai, Northeastern University <i>Delineating the role of vasculature in beta cell development and cell therapies for type 1 diabetes</i> Yasaman Aghazadeh, University of Montreal
10:30am-12:30pm	Health Disparities and the Microcirculation <i>Fission/fusion modulators of age-related coronary microvascular function</i> Amanda Jo Leblanc, University of Louisville <i>The role of pluripotency and innate immunity in sex differences in endothelial cells</i> Olga Cherepanova, Cleveland Clinic	Metabolism and Vascular Dysfunction <i>Immune metabolic reprogramming in vascular inflammation and salt-sensitive hypertension</i> Annet Kirabo, Vanderbilt University <i>Evolving landscape of atherosclerosis in the COVID-19 era</i> Chiara Giannarelli, New York University
12:30-2:00pm	Topical Panel Discussion with lunch	Group Lunch
2:00-3:00pm	Keynote Lecture <i>New roles for endothelial cells and mechanical forces revealed using human organ chips</i> Donald Ingber, Wyss Institute for Biologically Inspired Engineering at Harvard University	
3:00-4:00pm	NAVBO – Award Lectures and Presentations (recipients to be determined) Presentation of the Stephen Schwartz Award Presentation of the Florence Sabin Award Springer Award Presentation and Lecture	
4:15-5:15pm	Technology Workshop To be determined	
5:00-7:00pm	Dinner on your own	
7:00-10:00pm	Posters Sessions	

Day 5 – Thursday, October 23	
8:00-8:15am	Presentation of the Poster Awards
8:15-10:15pm	Plenary Session: Genetics in Vascular Inflammation <i>Impact of population structure on genetic findings and polygenic risk scores: lessons learned from the locus 9p21</i> Catherine Tcheandjieu, Gladstone Institutes <i>Gut microbiota-immune interactions modulating vascular inflammation in mice</i> Magali Noval Rivas, Cedars-Sinai Medical Center
10:45am-12:45pm	Plenary Session: Genetic Drivers of Vascular Malformations <i>Pathogenic variants that activate RAS-MAPK signaling drive lymphatic anomalies</i> Sarah Sheppard, National Institutes of Health <i>Drug development for arteriovenous malformation</i> Arin Greene, Boston Children's Hospital
12:45-1:00pm	Closing Remarks