

Day 3 – Tuesday, October 20

7:30-8:30am	Group Breakfast	
8:30-10:00am	Neurovascular Coupling and Patterning <i>Piezo1 integrates hemodynamic forces to tune neurovascular coupling</i> Osama Harraz, University of Vermont Short Talk: <i>A mitochondrial program encodes brain vascular reserve</i> Ivan Fan Xia, Yale University Short Talk: <i>Choline regulates angiogenesis and promotes remyelination in post stroke repair</i> Dibyanti Mukherjee, University of California, San Francisco <i>Understanding the role of endothelial calcium dynamics in cerebral microcirculation</i> Craig Brown, University of Victoria	Omics in Inflammatory CVD <i>Spatially mapping atherosclerosis: Connecting molecular architecture to clinical understanding</i> Gregory Payne, University of Alabama, Birmingham Short Talk: <i>Divergent Immune and Smooth Muscle Programs Define Sex-Specific Remodeling in Ascending Aortic Aneurysm</i> Elena Repges, Brigham and Women's Hospital Short Talk: Single-cell transcriptomics reveals endothelial and stromal remodeling linked to chronic venous obstruction following venous stenting Oscar Moreno, University of Michigan <i>Precision cardiovascular genomics: Decoding disease risk with stem cell models</i> Valentina Lo Sardo, University of Wisconsin-Madison
10:30am-12:00pm	Engineering Strategies for Vascularization and Disease Modeling <i>Engineering angiogenic biomaterials for brain repair</i> Tatiana Segura, Duke University Short Talk: <i>Blood perfusion drives microvessel maturation in engineered microvascular grafts</i> Angela Zhou, University Health Network Short Talk: <i>Circulating nanoplastics induce cardiotoxicity and vascular inflammation in a perfusable engineered human cardiovascular microtissue</i> Jules Allbritton-King, Harvard Medical School <i>Engineering the stem cell niche</i> Quinton Smith, University of California Irvine	
12:00-1:30pm	Career Development Lunch: Mock Interviews - Your First Faculty Position	Lunch for all others
1:30-3:30pm	Regeneration and Mechanobiology in Vascular Biology <i>Flow, KLF2, and endothelial mechanobiology</i> Guillermo Garcia-Cardena, Harvard Medical School <i>Mechanical and cellular heterogeneity in asymmetric aortic valve calcification</i> Joshua Hutcheson, Florida International University <i>Endothelial organotypic plasticity in pancreatic islet cell grafts</i> Sara Nunes Vasconcelos, University of Toronto <i>Non-canonical functions of telomerase in vascular rejuvenation</i> John Cooke, Houston Methodist Research Institute	Pulmonary Microcirculation in Pulmonary Hypertension <i>Rgs5 deficiency in pericytes promotes microvascular remodeling in pulmonary hypertension</i> Ke Yuan, Boston Children's Hospital Short Talk: <i>Extracellular matrix-related protein Cthrc1 is a potential target in pulmonary hypertension</i> Eunate Gallardo-Vara, Yale University Short Talk: <i>Restoring Endothelial TMEM100 Reverses the Pulmonary Arterial Hypertension Phenotype Resulting from TBX4 Deficiency</i> Mauro Lago Docampo, Stanford University Short Talk: <i>Targeting the ERG-EDNRB Axis in Lymphatic Endothelial Cells to Attenuate Bleomycin-Induced Pulmonary Fibrosis</i> Arun Narota, Boston University Short Talk: <i>ROR2 Signaling Regulates Pericyte Function and Microvascular Stability in Pulmonary Arterial Hypertension</i> Arpita Roy, Stanford University

		<i>Mitochondrial ASIC1a as a key regulator of pulmonary arterial smooth muscle cell apoptosis</i> Nikki L Jernigan, University of New Mexico School of Medicine
3:45-4:15pm	Tech Showcase: Live, Long-term Mitochondrial Respiration with Resipher Silke Grainger, VP Product Application Strategy	
5:00-6:00pm	Career Development: Preparing a Pre- or Postdoctoral Fellowship Application: Lessons from Study Sections	
6:00-7:00pm	Early-Stage Investigators Dinner	Group Dinner
7:00-10:00pm	Poster Sessions	