

Day 2 – Monday, October 20		
7:00-8:00am	Group Breakfast	Networking 101
8:00-10:00am	<p>Regenerative Medicine and Cardiovascular Repair <i>Dynamic In vitro models of vascular growth and injury across scales</i> Ying Zheng, University of Washington</p> <p>Short talk: <i>Transcriptional reprogramming of mitochondrial dynamics in iPSCs-derived endothelial cells</i> Gwang-Bum Im, Boston Children's Hospital</p> <p>Short talk: <i>Systematic discovery of collateral artery regulators via cross-species in vivo Perturb-seq</i> Xiaochen Fan, Stanford University</p> <p>Short talk: <i>Connexin 43 is required for smooth muscle cell driven neointimal hyperplasia</i> Mark Renton, Virginia Tech</p> <p>Short talk: <i>Genetic mechanisms in natural variation of coronary artery anatomy across diverse populations</i> Pamela Rios, Yale University</p> <p><i>A novel angiogenic biomaterial for localized protein delivery improves revascularization and ischemic wound healing</i> Kareen Coulombe, Brown University</p>	<p>Microvascular Dysfunction in Shock <i>Extracellular vesicles in vascular inflammation and barrier dysfunction vascular permeability during sepsis</i> Sarah Yuan, University of South Florida</p> <p>Short talk: <i>Distinct blood and lung proteins drive pulmonary capillary leak in invasively ventilated children</i> Richard Pierce, Yale University</p> <p>Short talk: <i>Fluid shear stress modulates the CD44/HA axis of the basal endothelial glycocalyx</i> Zoe Vittum, Worcester Polytechnic Institute</p> <p>Short talk: <i>Characterization of the endothelial ADAM10 sheddome identifies novel cleavage substrates during S. aureus Hla infection</i> Danielle Alfano, Washington University</p> <p>Short talk: <i>STAT1 and STING are required for endothelial expression of interferon-stimulated genes in response to an endotoxin challenge</i> Nina Martino, Albany Medical College</p> <p><i>Microvascular heterogeneity in endothelial cell responses in sepsis</i> Audrey Cleuren, Oklahoma Medical Research Foundation</p>
10:30am-12:30pm	<p>Epigenetic and Post-Transcriptional Control of the Vasculature <i>Sex-specific epigenetic mechanisms in cerebrovascular injury</i> Kahlilia Morris-Blanco, University of Pennsylvania</p> <p>Short talk: <i>IL-12 upregulates SETD4 to epigenetically activate atherogenic programs in diabetic aortic endothelial cells</i> James Shadiow, University of Michigan</p> <p>Short talk: <i>Endothelial cells retain inflammatory memory through chromatin remodeling in a two-hit model of infection-induced inflammation</i> Ramon Bossardi Ramos, Albany Medical College</p> <p>Short talk: <i>Loss of the lncRNA DIO3OS promotes caspase activation, mitochondrial dysfunction, and endothelial apoptosis</i> Cristina Espinosa-Diez, Wayne State</p> <p>Short talk: <i>PKM2 signaling in HDAC7-mediated lung endothelial barrier dysfunction</i> Peter Biggs, Augusta University</p> <p><i>Dynamic epigenetic signatures during vascular development</i> Angie Serrano, Boston University</p>	<p>Inflammation in Small Vessels <i>Vascular permeability, cause and consequence</i> Lena Claesson-Welsh, Uppsala University</p> <p>Short talk: <i>BET bromodomain proteins regulate an interferon-like proinflammatory response in the vasculature in Hutchinson-Gilford progeria syndrome</i> Jonathan D. Brown, Vanderbilt University Medical Center</p> <p>Short talk: <i>Fxr1 loss in aging cerebrovascular endothelium impairs desmosome organization and increases nuclear strain</i> Olivia Durham, UConn Health</p> <p>Short talk: <i>Discovering novel regulators of VE-Cadherin from stabilized endothelial adherens junctions using proximity labeling proteomics</i> Avishek Ghosh, Boston Children's</p> <p>Short talk: <i>Novel vascular remodeling and endothelial activation in CADASIL-derived blood vessel organoids</i> Kevin Emmerich, NIH</p> <p><i>Tracking neutrophil infiltration into the ischemic brain reveals new targets for treating stroke</i> David Sullivan, Northwestern University</p>
12:30-1:45pm	Lunch and Learn for Trainees	Lunch for all others
1:45-3:45pm	<p>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</p> <p>Short talk: <i>Investigating a Mechanotransduction role for EHD2</i> Jasper Farrington, University of Denver</p> <p>Short talk: <i>Vascular smooth muscle LIM kinase inhibition attenuates tissue transglutaminase-dependent actin polymerization induced by mechanical stretching</i> Olubodun Lateef, University of Missouri</p> <p>Short talk: <i>Mechanosensitive BBB modeling reveals glycocalyx-driven neurovascular damage</i> Nicholas O'Hare, Northeastern University</p> <p>Short talk: <i>Endothelial Nucleoporin93 maintains Sun1 expression for proper flow-induced cellular alignment</i> Julia Michalkiewicz, University of Illinois – Chicago</p> <p><i>Flow-induced reprogramming of endothelial cells in atherogenesis</i> Hanjoong Jo, Emory University</p>	
4:00-5:00pm	Nano-talks	
5:00-7:00pm	Dinner on your own	
7:00-10:00pm	Poster Sessions	