

Vascular Biology 2027 – Preliminary Program

Day 1 – Sunday, October 17		
2:00-6:00pm	Pre-conference Meeting for Trainees (<i>featured speaker, and program to be determined</i>) Organizers: Eric Ma (Oklahoma Medical Research Foundation), Shelby Hader (Medical College of Wisconsin)	
7:15-9:30pm	Keynote Lecture by Kathleen Martin, Yale University <i>Coronary artery development and regeneration</i> Earl P. Benditt Award Presentation and Lecture - To be determined	
9:30-10:30pm	Welcome Reception	
Day 2 – Monday, October 18		
7:30-8:30am	Group Breakfast	
8:30-10:00am	Malformations <i>Molecular mechanisms of inflammation and thrombosis in brain vascular malformations</i> Miguel Lopez Ramirez, University of California San Diego	Emerging Technologies <i>Cell-derived microfluidics for vascular biology</i> William Polacheck, University of North Carolina Chapel Hill <i>Scaling-up bioprinted vascular tissues</i> Mark A. Skylar-Scott, Stanford University
10:30am-12:00pm	Lymphatics in Development and Disease <i>Fishing for new insights into the development of the lymphatic system using the zebrafish</i> Brant Weinstein, NICHD	Atherosclerosis <i>Harnessing Specialized Pro-Resolving Mediators to Combat Cardiovascular Aging</i> Gabrielle Fredman, Albany Medical School <i>Shared pathways in rare and common vascular diseases: Insights from human genetics</i> Rajat Gupta, Brigham and Women's Hospital
12:00-1:30pm	Lunch and Learn for Trainees	Lunch for all others
1:30-3:30pm	MCS President's Symposium: Small Vessel Mechanisms in Cognitive Decline <i>Endothelial cell ORAI channels drive neurovascular coupling</i> Scott Earley, University of Rochester Medicine <i>Sex-specific effects of endothelial pannexin1 in cerebral vascular function</i> Miranda Good, Tufts University School of Medicine <i>The role of intermittent fasting in cerebrovascular aging and cognitive decline</i> Stefano Tarantini, University of Oklahoma Health Sciences Center <i>Notch3 and small vessel disease- insights from CADASIL</i> Rhian Touyz, McGill University	
3:45-4:30pm	MCS Landis Award Lecture - Recipient to be determined	
4:30-5:30pm	Nano-Talks <i>Presentations selected from abstracts</i>	
5:30-7:00pm	Dinner on your own	
7:00-10:00pm	Poster Sessions	
Day 3 – Tuesday, October 20		
7:30-8:30am	Group Breakfast	
8:30-10:00am	Perivascular Regulation of Vessel Development <i>New approach methodologies (NAMs) for studying perivascular regulation of vessel development</i> Shayne Peirce-Cottler, University of Virginia	Endothelial Inflammation <i>RNA biology and the development of RNA therapeutics in vascular disease</i> Yun Fang, University of Chicago <i>Endothelial mechanisms of shear stress mechanotransduction</i> Martin Schwartz, Yale School of Medicine
10:30am-12:00pm	Mechanotransduction - Extracellular to Intracellular <i>Mechanobiology-driven enhancements of stem cell therapeutics</i> Aaron Baker, University of Texas Austin	

	Smooth muscle cell mechanobiology in elastic fiber-associated disease Jessica Wagenseil, University of Utah	
12:00-1:30pm	Career Development Forum	Lunch for all others
1:30-3:00pm	Mechanisms of Vascular Resilience <i>Investigating vascular regeneration via longitudinal imaging of live mice</i> Chen Yuan Kam, UCLA <i>Lipid droplet accumulation impairs endothelial mechanoadaptation by disrupting microtubule remodeling</i> Boa Kim, UNC Chapel Hill	Small Vessel Mechanisms and Remodeling in Hypertension <i>Genetic and functional markers of human coronary resistance artery dysfunction</i> Kim Dora, University of Oxford <i>From channels to networks: decoding mechanisms of vascular reactivity in hypertension</i> Manuel Navedo, University of California Davis
3:15-4:15pm	Sponsored Showcase by Industry Partners	
4:15-7:00pm	Free time and dinner on your own	
7:00-10:00pm	Poster Sessions	
Day 4 – Wednesday, October 21		
7:30-8:30	Group Breakfast	
8:30-10:00am	Emerging Topics in Microcirculation <i>Presentations selected from abstracts</i>	Vasculature of Organs <i>Unique inflammatory pathways of the adipose endothelium</i> Joanna Kalucka, Aarhus University
10:30am-12:00pm	Heterotypic Regulation of Vascular Homeostasis <i>Signaling hotspots: how microdomains drive vascular health and disease</i> Swapnil Sonkusare, University of Virginia <i>Pulmonary capillary specification and maintenance</i> Lisandra Vila Ellis, Northwestern University	Matrix and Aging in the Vasculature <i>Extracellular matrix dynamics in vascular aging and smooth muscle cell senescence</i> Alison Herman, NIA/ NIH <i>Temporal evolution of matrix remodeling in arterial aging</i> Lakshmi Santhanam, Johns Hopkins School of Medicine
12:00-1:30pm	Career Development Forum	Group Lunch for all others
1:30-2:30pm	Metabolic Drivers of Health and Disease <i>Insights into vascular metabolism</i> Zoltan Arany, University of Pennsylvania <i>Endothelial sphingolipid metabolism as a driver of vascular and cardiometabolic disease</i> Annarita Di Lorenzo, Weill Cornell Medical College	
2:45-4:30pm	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 Folkman Award Presentation and Lecture	
5:00-7:00pm	Poster Sessions	
7:00-9:00pm	Farewell Reception and Closing Remarks	
Day 5 – Thursday, October 22		
7:30-8:30am	Group Breakfast	