# Vascular Biology 2025 October 19-23, 2025 – Hyport Conference Center

### Day 1 – Sunday, October 19

1:30-	Pre-conference Meeting for Trainees				
5:30pm	Organizers: Yu Jung Shin, University of Washington and Xiaochen Fan, Stanford University with				
	Alicen Whitaker-Hilbig, Medical College of Wisconsin and Liping Zhang, Brigham & Women's Hospital				
Grand II	My journey into vascular biology and why I remain excited about it				
	Anne Eichmann, Yale University School of Medicine				
	Helping Each Other Grow: Lessons from Brain Collateral Resilience				
	Stefania Nicoli, Yale University Cardiovascular Research Center				
7:00-	Opening Remarks				
9:00pm	Welcome				
	A. Wayne Orr, President of NAVBO				
Grand					
Ballroom	Judah Folkman Award in Vascular Biology Presentation and Lecture -				
	Transcriptional and Post-transcriptional Regulation of Cellular Functions within the Vascular System				
	Yajaira Suárez, Yale University School of Medicine				
	Earl P. Benditt Award Presentation and Lecture -				
	Harnessing Blood Vessels to Promote Brain Health				
	Anne Eichmann, Yale University School of Medicine				
9:00-	Welcome Reception – Ballroom Foyer				
10:00pm					

## Day 2 – Monday, October 20

7:00- 8:00am	Group Breakfast – Bass River Room	Networking 101 – Cape Cod Room	
	Grand I	Grand II	
8:00- 10:00am	Regenerative Medicine and Cardiovascular Repair Dynamic In vitro models of vascular growth and injury across scales Ying Zheng, University of Washington	Microvascular Dysfunction in Shock Extracellular vesicles in vascular inflammation and barrier dysfunction vascular permeability during sepsis Sarah Yuan, University of South Florida	
	Short talk: Transcriptional reprogramming of mitochondrial dynamics in iPSCs-derived endothelial cells Gwang-Bum Im, Boston Children's Hospital	Short talk: Distinct blood and lung proteins drive pulmonary capillary leak in invasively ventilated children Richard Pierce, Yale University	
	Short talk: Systematic discovery of collateral artery regulators via cross-species in vivo	Short talk: Fluid shear stress modulates the CD44/HA axis of the basal endothelial glycocalyx	

	Perturb-seq	Zoe Vittum, Worcester Polytechnic Institute
	Xiaochen Fan, Stanford University	
		Short talk: Characterization of the endothelial
	Short talk: Connexin 43 is required for smooth	ADAM10 sheddome identifies novel cleavage
	muscle cell driven neointimal hyperplasia	substrates during S. aureus Hla infection
	Mark Renton, Virginia Tech	Danielle Alfano, Washington University
	Short talk: Genetic mechanisms in natural	Short talk: STAT1 and STING are required for
	variation of coronary artery anatomy across	endothelial expression of interferon-stimulated genes
	diverse populations	in response to an endotoxin challenge
	Pamela Rios, Yale University	Nina Martino, Albany Medical College
	A novel angiogenic biomaterial for localized	Microvascular heterogeneity in endothelial cell
	protein delivery improves revascularization and	responses in sepsis
	ischemic wound healing	Audrey Cleuren, Oklahoma Medical Research
	Kareen Coulombe, Brown University	Foundation
10:30am-	Epigenetic and Post-Transcriptional Control of	Inflammation in Small Vessels
12:30pm	the Vasculature	Vascular permeability, cause and consequence
	Sex-specific epigenetic mechanisms in cerebrovascular injury	Lena Claesson-Welsh, Uppsala University
	Kahlilia Morris-Blanco, University of	Short talk: BET bromodomain proteins regulate an
	Pennsylvania	interferon-like proinflammatory response in the
		vasculature in Hutchinson-Gilford progeria syndrome
	Short talk: IL-12 upregulates SETD4 to	Jonathan D. Brown, Vanderbilt University Medical
	epigenetically activate atherogenic programs in	Center
	diabetic aortic endothelial cells	
	James Shadiow, University of Michigan	Short talk: Fxr1 loss in aging cerebrovascular endothelium impairs desmosome organization and
	Short talk: Endothelial cells retain inflammatory	increases nuclear strain
	memory through chromatin remodeling in a	Olivia Durham, UConn Health
	two-hit model of infection-induced	
	inflammation	Short talk: Discovering novel regulators of VE-Cadherin
	Ramon Bossardi Ramos, Albany Medical College	from stabilized endothelial adherens junctions using
		proximity labeling proteomics
	Short talk: Loss of the IncRNA DIO3OS promotes	Avishek Ghosh, Boston Children's
	caspase activation, mitochondrial dysfunction,	
	and endothelial apoptosis	Short talk: Novel vascular remodeling and endothelial
	Cristina Espinosa-Diez, Wayne State	activation in CADASIL-derived blood vessel organoids
	Short talk: <i>PKM2 signaling in HDAC7-mediated</i>	Kevin Emmerich, NIH
	lung endothelial barrier dysfunction	Tracking neutrophil infiltration into the ischemic brain
	Peter Biggs, Augusta University	reveals new targets for treating stroke
	2.005,	tern University
	Dynamic epigenetic signatures during vascular	<b>'</b>
	development	
	Angie Serrano, Boston University	
12:30-	Lunch and Learn for Trainees – Bass River	Lunch for all others – Bass River and Cape Cod Rooms
1:45pm	Room	
1:45-	Plenary Session: Mechanosensing and Mechano	
3:45pm	Flow-mediated endothelial cell signaling and vas	cular injiammation
	Julia Mack, University of California, Los Angeles	

7:00- 10:00pm	Poster Sessions – Ballroom Foyer and Osterville Room
5:00- 7:00pm	Dinner on your own
4:00- 5:00pm	Nano-talks – Grand Ballroom
	Flow-induced reprogramming of endothelial cells in atherogenesis Hanjoong Jo, Emory University
	Short talk: Endothelial Nucleoporin93 maintains Sun1 expression for proper flow-induced cellular alignment Julia Michalkiewicz, University of Illinois – Chicago
	Short talk: <i>Mechanosensitive BBB modeling reveals glycocalyx-driven neurovascular damage</i> Nicholas O'Hare, Northeastern University
	Short talk: Vascular smooth muscle LIM kinase inhibition attenuates tissue transglutaminase-dependent actin polymerization induced by mechanical stretching Olubodun Lateef, University of Missouri
Grand Ballroom	Short talk: Investigating a Mechanotransduction role for EHD2 Jasper Farrington, University of Denver

7:00-8:00am	Group Breakfast – Bass River Room	Science in Action: Advocating for Research and Discovery – Cape Cod Room
	Grand I	Grand II
8:00-10:00am	Advanced Molecular Mechanisms in Vascular Matrix Remodeling Systems approach to cardiovascular calcification Elena Aikawa, Brigham and Women's Hospital  Short talk: Functional profiling of SCAD-associated genes reveals disruption of ECM and cell morphology in human vascular cells Emily Bramel, Broad Institute of MIT  Short talk: Role of endothelial Nck1 in atherosclerosis Cyrine Ben Dhaou, LSUHS  Short talk: BMP1 coronary disease causality and mechanisms of disease risk Joao Monteiro, Stanford University  Short talk: CRK/CRKL regulate embryonic angiogenesis by maintaining formation of tip cells and modulating MAP4K4 signaling in mammals Lijie Shi, Albert Einstein College of Medicine  Mineralization in the matrix Cynthia St. Hilaire, University of Pittsburgh	Neuroinflammation  Mechanisms of cerebral microvascular dysfunction in AD/ADRD: role of cellular inflammatory mediators  Paulo Pires, University of Arizona  Short talk: Pde4b activity and vascular association correlate with immune-like oligodendrocytes in chronic stress  Miguel M Madeira, Stony Brook University  Short talk: Myeloid 62-adrenergic receptors mediate neuroimmune signaling to prime aortic stiffness  Tzung Hsiai, UCLA  Short talk: Microglia and neutrophils reciprocally mediate unique post-stroke spatial patterning independent of infarct topology  Laurel Schappell, Stony Brook  Short talk: A high-throughput human Blood-brain barrier (BBB)-on-a-chip model for drug discovery of anti-inflammatory and barrier restoring agents for neurological disorders  Nick Saites, Mimetas B.V.  Vascular contributions to neuroinflammation: novel roles for endothelial tissue-nonspecific alkaline phosphatase  Candice Brown, Indiana University School of Medicine
10:30am- 12:00pm	Blood Vascular Development  Higd1b is a unique and conserved gene marker for pericytes  Ke Yuan, Boston Children's Hospital	Vascular Extracellular Matrix Bioengineering Engineering human blood vessels for modeling and therapeutics Sharon Gerecht, Duke University
	Short talk: The metabolism-regulated transcription factor FOXO1 links nutrient deprivation to the establishment of artery identity Qingqing Yin, Stanford University  Short talk: Pioneer factor ETV2 safeguards endothelial cell specification by recruiting	Short talk: Biological sex influences long term remodeling outcomes of compliance matched vascular grafts Katarina Martinet, University of Pittsburg  Short talk: From human genetics to therapeutics: RNA nanomedicine for cardiovascular and metabolic disease

	the repressor REST to restrict alternative lineage commitment	Yun Fang, University of Chicago
	Danyang Chen, Boston Children's	Matrix-mediated regeneration of vasa vasorum as a treatment for aortic aneurysm
	Short talk: Artery formation is mediated by Esm1+ endothelial cells	Julie Phillippi, University of Pittsburgh
	Ralf Adams, MPI for Molecular Bioscience	
	Short talk: Endothelial Ovol1 regulates angiogenesis via Slug Kapil Thapa, Tulane University	
12:00-1:30pm	Group Lunch – Bass River Room	Career Development: Mock Interviews - Cape Cod Room
1:30-3:00pm	MCS President's Symposium: Bone Marrow	Niche
	Clonal hematopoiesis: the emergent risk fact	tor
Grand I	Kenneth Walsh, University of Virginia	
	The role of the nitric oxide / soluble guanylyl	cyclase nathway in erythronoiesis
	Miriam Cortese-Krott, Heinrich Heine Univer	
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	Endothelial cell responses to hyperlipidemia	distinguish the bone marrow and splenic
	hematopoietic niches	
	Adil Rasheed, Augusta University	
3:00-3:45pm	MCS Landis Award Lecture	
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Grand I	The Architecture of Resistance: Three Decad	•
	Donald Welsh, Robarts Research Institute, U	niversity of Western Ontario
	Donald Welsh, Robarts Research Institute, U  Emerging Topics in Microcirculation	niversity of Western Ontario  Vascular Remodeling in the Uterus and Placenta
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	Short talk: Understanding the process and signaling of coronary collateral growth in adult heart by single-cell RNA sequencing Jian Shi, NE Ohio  Short talk: Poor lysosome acidification blunts BKCa channel activity in the cerebral vasculature of male 5x-FAD mice Paige E. Martin, University of Arizona
5:30-7:00pm	Dinner on your own
7:00-10:00pm	Poster Sessions – Ballroom Foyer and Osterville Room

Day 4 – Wednesday, October 22			
7:00-8:00	Group Breakfast – Bass River Room		
	Grand I	Grand II	
8:00-10:00am	Lymphatic Vascular Development Chemokine signaling as a guiding cue regulating lymphatic development Xiaolei Liu, Temple University Short talk: Adm and Ackr3 regulates cardiac	Innovations in Vascular Tissue Engineering Bioengineered perfused human brain microvas to model brain tumor and neurodegenerative of Guohao Dai, Northeastern University  Short talk: Kidney organoid vascularization usin	

lymphatic vessel formation during zebrafish heart development and regeneration Xidi Feng, USC

Short talk: Erg deletion in lymphatic endothelium protects against bleomycininduced lung fibrosis Arun Narota, Boston University

Short talk: A novel role for second heart field Christina Vyzas, Rutgers University

Short talk: Metabolic mechanisms regulating lymphatic vascular development Pengchun Yu, OMRF

Lymphatic valve and cell junction morphogenesis Joshua Scallan, University of South Florida asculature diseases

sina inducible endothelial cells from human pluripotent stem cells

Yonglin Zhu, Boston Children's Hospital

Short talk: Hemodynamic cues promote hierarchical vascular remodeling and maturation in in vitro model of perfusable vascular organoids Yu Jung Shin, Massachusetts Institute of Technology

Short talk: *Organ-on-Chip model of the* progenitors in lymphovenous valve formation microcirculation in AAA recapitulates aspects of disease

Philipp Hauger, Amsterdam UMC

Short talk: Reconstructing native soluble cues to enhance endothelial cell maturation in bioengineered whole lung vascular model Yifan Yuan, University of Maryland

Delineating the role of vasculature in beta cell development and cell therapies for type 1 diabetes Yasaman Aghazadeh, University of Montreal

#### 10:30am-12:30pm

Health Disparities and the Microcirculation Fission/fusion modulators of age-related coronary microvascular function Amanda Jo Leblanc, University of Louisville

Short talk: Endothelial-derived Neuregulin 1 modulates pericytes function in heart failure with preserved ejection fraction Leah Rebecca Vanicek - Goethe University Frankfurt

Short talk: FoxO1 protects female endothelial accumulation in atherosclerotic plaques cells from mitochondrial dysfunction, DNA damage and oxidative stress Alexanda Pislaru - York University

#### Metabolism and Vascular Dysfunction

Immune metabolic reprogramming in vascular inflammation and salt-sensitive hypertension Annet Kirabo, Vanderbilt University

Short talk: HIV Nef extracellular vesicles impair macrophage efferocytosis via epigenetic regulation of Btk-NFĸB-MerTK to promote atherosclerosis Sarvesh Chelvanambi, Brigham & Women's Hospital

Short talk: Resolvin D2 limits senescent cell Ignacia A Salfate del Rio, Albany Medical College

Short talk: Extracellular matrix-related genes, such as Cthrc1, are potential targets in pulmonary hypertension

7:00- 10:00pm	Posters Sessions – Ballroom Foyer and Osterv	ille Room	
5:00-7:00pm	Dinner on your own		
	Springer Award Presentation and Lecture: An epigenetic link between metabolism and smooth muscle cell differentiation Callie Kwartler, University of Texas Health Science Center at Houston		
Ballroom	Presentation of the Florence Sabin Award Mahdi Garalnabi, University of Massachusetts Lowell		
<b>3:00-4:00pm</b> Grand	NAVBO – Award Lectures and Presentations Presentation of the Stephen Schwartz Award Klaus Ley, Medical College of Georgia, Augusta University		
<b>2:00-3:00pm</b> Grand Ballroom			
12:30- 2:00pm	Group Lunch – Bass River Room	Publish or Perish? Disseminating Science in an Uncertain Age – Cape Cod Room	
	renal fibrosis  Kyoungmi Bak, McGill University  The role of pluripotency and innate immunity in sex differences in endothelial cells  Olga Cherepanova, Cleveland Clinic	Evolving landscape of atherosclerosis in the COVID-19 era Chiara Giannarelli, New York University	
	Short talk: Iron regulates endothelial NO signaling via endothelial a-globin Luke S Dunaway, University of Virginia Short talk: Matrix Gla protein expression in pericytes and myofibroblasts contributes to	Eunate Gallardo-Vara, Yale University  Short talk: Putrescine synthesis drives smooth muscle cell differentiation in a myocardin-dependent manner Louise Frausto, LSU	

	Day 5 – Thursday, October 23
7:00-8:00am	Group Breakfast – Bass River Room
<b>8:00-8:15am</b> Grand Ballroom	Presentation of the Poster Awards
8:15-10:15am Grand Ballroom	Plenary Session: Genetics in Vascular Inflammation  Gut microbiota-immune interactions modulating vascular inflammation in mice  Magali Noval Rivas, Cedars-Sinai Medical Center
Grand Banroom	Short talk: The tryptophan metabolite indoxyl sulfate promotes vascular dysfunction by impairing anti-atherogenic macrophage functions in chronic kidney disease Prabhash Jha, Brigham & Women's Hospital
	Short talk: TMEM16F regulates multiple aspects of the endothelial cell response to inflammation Allison Gabbert, Beth Israel Deaconess Medical Center
	Short talk: Interleukin-1 receptor-activated Kinase-1 in disturbed flow-induced vascular remodeling and atherosclerosis progression  Mabruka Alfaidi, University of Nebraska
10:45am-12:45pm	Plenary Session: Genetic Drivers of Vascular Malformations Genomics informs precision medicine for individuals with lymphatic anomalies
Grand Ballroom	Sarah Sheppard, National Institutes of Health  Short talk: Signaling changes in LOH cells contribute to loss of vessel integrity in Hereditary Hemorrhagic Telangiectasia  Adella Guidroz, Tulane University
	Short talk: Loss of TBX4 alters smooth muscle contractility and induces endothelial dysfunction in pulmonary arterial hypertension Mauro Lago Docampo, Stanford University
	Molecular mechanisms of pulmonary arteriovenous malformations in single ventricle congenital heart disease Andrew Spearman, Medical College of Wisconsin
	Short talk: MYC-induced hypertranscription contributes to brain arteriovenous malformation.  Negar Khosraviani, University of Toronto
	Short talk: MEK signaling represents a viable therapeutic vulnerability of KRAS-driven somatic brain arteriovenous malformations Gabrielle Largoza, University of Virginia
	Short talk: Endothelial Notch4 and Notch1 in retinal angiogenesis Christie Kang, University of Illinois Short talk: An endothelial SOX18-mevalonate pathway axis enables novel targeted therapies for vascular anomalies Annegret Holm, Boston Children's Hospital
12:45-1:00pm	Closing Remarks