Day 4 – Wednesday, October 21

7:30-8:30am	Group Breakfast	
8:30-10:00am	**Lymphatics: Aging and Function** *G protein-coupled receptors in lymphatic development and physiology* Kathleen Caron, UNC Chapel Hill Short Talk: *Characterization of novel lymphatic capillary mural cells (LCMCs)* Vishakha Vishwakarma, NICHD, NIH Short Talk: *Connexin 37-mediated late G1 state enables lymphatic valve morphogenesis* Madeline Jackson, University of Virginia *The role of lymphatic vessels in mesenteric inflammation* Sathish Srinivasan, Oklahoma Medical Research Foundation	**Metabolism and Epigenetics Intersection in Cardiovascular Disease** *RNA-mediated endothelial stress response in diabetes and complications* Zhen Chen, City of Hope Short Talk: *TGFß negatively regulates CPT1A-mediated fatty acid oxidation to impair cardiac lymphangiogenesis and exacerbate cardiac dysfunction following myocardial ischemia* Esteban Delgado, Temple University Short Talk: *Empagliflozin restores angiogenic gene regulatory pathways in the cardiac microvasculature in diabetes-induced heart failure with preserved ejection fraction* Cori Lau, University Health Network *Epigenetics and inflammation in cardiovascular disease* Katherine Gallagher, University of Michigan
10:30am-12:00pm	**New Trends in Vascular Biology** Short Talk: *Platelets unlock endothelial plasticity toward mesenchymal fates to promote aortic Aneurysm* Yogi Pratama, NYU Langone Health Short Talk: *The splicing factor SF3B1 is essential for safeguarding global splicing integrity and suppressing ferroptosis in endothelial cells to support angiogenesis* Ziqing Liu, Medical College of Wisconsin Short Talk: *Piezo2-Vegfr3 signaling axis regulates lymphangiogenesis in calcium dependent manner* Zuzanna Juskiewicz, University of Virginia Short Talk: *Type 1 Diabetes Abrogates Female Vascular Protection Through Renin-Angiotensin -Aldosterone System-Dependent Oxidative Stress Despite Preserved Endothelial Bioenergetics* Adam Salon, Augusta University Short Talk: *Elastin-Targeted Pentagalloyl Glucose Nanotherapy Attenuates Angiotensin II–Induced NETosis and Preserves Vascular Smooth Muscle Cell Phenotype During Abdominal Aortic Aneurysm Progression* David Madukwe, Clemson University Short Talk: *Engineering Lymphatic Vascular Tissues from Human Induced Pluripotent Stem Cells* Donny Hanjaya-Putra, University of Notre Dame	**Musculoskeletal Microcirculation** *Age-related microvascular dysfunction: The skeleton and beyond* Rhonda Prisby, University of Texas at Arlington Short Talk: *The histone modification H3K4me2 and the DNA demethylase TET2 coordinately regulate microvascular SMC recruitment and coverage during hindlimb ischemia-induced angiogenesis* Sanjana Basak, University of Pittsburgh Short Talk: *Impacts of Metabolic Disease and Aging on Synovial Microvasculature in Knee Osteoarthritis: Roles of Synovial Endothelial-to-Mesenchymal Transition* Qinli Guo, Western University *The relationship between microvascular health and neuromuscular function post-stroke* Matthew Durand, Medical College of Wisconsin
12:00-1:00pm	Community Building Workshop for International Scholars in the US	Group Lunch for all others

1:00-2:30pm	**Mechanisms of Vascular Disease and Resilience** *Smooth muscle pathobiology in vascular disease* Daniel Greif, Yale University *Endothelial cell nuclear mechanotransduction regulates vascular resilience* Victoria Bautch, UNC Chapel Hill *Role of endothelial cell cycle in fate specification* Karen Hirschi, University of Virginia School of Medicine
2:45-4:30pm	**NAVBO – Award Lectures and Presentations** Presentation of the Stephen Schwartz Award - Peter Libby, Harvard School of Medicine Presentation of the Florence Sabin Award - Sharon Gerecht, Duke University Springer Award Presentation and Lecture - *TGFβ-Mediated Metabolic Regulation of Cardiac Lymphatics After Myocardial Infarction* Xiaolei Liu, Temple University Folkman Award Presentation and Lecture - *From endothelial mechanobiology toward precision nanomedicine for vascular disease* Yun Fang, University of Chicago
5:00-7:00pm	**Poster Sessions**
7:00-9:00pm	**Farewell Dinner, Poster Award Presentations and Closing Remarks**