June 2nd and 3rd 2022

* Indicates that the session will be livestreamed in addition to being in-person

June 2, 9:00 am - 3:00 pm EDT

9:00-9:20 **Welcoming Ceremonies** *
Co-Directors: Mary Cushman, MD MSc and Mark Nelson, PhD
Opening Remarks from dignitaries

9:20-10:40 **VCCBH Project Director Presentations** *
Moderator: Mary Cushman, MD MSc
Katharine Cheung, MD, PhD, Assistant Professor of Medicine
*Cognitive Impairment and Trajectory in Chronic Kidney Disease*
Osama Harraz, PhD, Assistant Professor of Pharmacology
*Brain CapillaryMechanosensation by Piezo1 Channels in Health and Disease*
Denise Peters, DPT PhD, Assistant Professor of Rehabilitation and Movement Science
*Clinical, Blood and Neuroimaging Biomarkers as Predictors of Independent Walking Post-stroke*
Masayo Koide, PhD, Assistant Professor of Pharmacology
*Crippled Cerebral Blood Flow Regulation in Chronic Hypertension*

10:40-11:20 **Connection Corner:** Join informal discussions with experts on career development themes:
Marilyn Cipolla, PhD, Professor of Neurological Sciences and Chair, Dept of Electrical and Biomedical Engineering
*Hiring, Training, and Maintaining Personnel*
Julie Dumas, PhD, Associate Professor of Psychiatry, Co-Director Clinical Neuroscience Research Unit
*Getting the Most out of Your Mentor*
Michael LaMantia, MD, MPH, Associate Professor of Medicine and Neurological Sciences; Director, Center on Aging, Chief of Geriatrics, UVM Medical Center
*Networking at National Meetings*
Gagan Deep Bajaj, PhD, Grant Proposal Developer, Larner College of Medicine
*Staying on Track for Writing your Next Grant*

11:20-12:00 **Pilot Grant Awardee Presentations** *
Moderator: Mark Nelson, PhD
David Punihaole, PhD, Assistant Professor of Chemistry
*Determining Fibril Structures Using Raman Spectroscopy*
Yangguang Ou, PhD, Assistant Professor of Chemistry
*Measuring H2O2 in Cells to Assess the Variation in Amyloid-β Cytotoxicity*

12:00-1:00 **Lunch Break**

1:00-2:00 **Science Keynote Address** *
Moderator: Osama Harraz, PhD
*What is Disease? Defining Pathobiology and Therapeutics in the Era of Big Data*
Joseph Loscalzo, MD, PhD, Hersey Professor of the Theory and Practice of Medicine, Harvard University; Chairman, Dept of Medicine and Physician-in-Chief, Brigham and Women’s Hospital [Website]

2:00-2:50 **Poster Session**

2:50-3:00 **Concluding Remarks and Announcements** *
Mary Cushman, MD MSc

5:30-7:30 **Reception**
Echo, Leahy Center for Lake Champlain, 1 College Street, Burlington, VT 05401
June 3, 9:00 am - 2:30 pm EDT

9:00-9:20  Welcome *  Mary Cushman, MD, MSc and Mark Nelson, PhD

9:20-10:25  Pipeline Investigator Flash Talks *  Moderators: Katharine Cheung, MD, PhD & Masayo Koide, PhD
  Nicholas Klug, PhD, Postdoctoral Fellow, Dept of Pharmacology  
  Capillary KATP Channels Regulate Cerebral Blood Flow
  Carole McBride, PhD, Faculty Scientist, Dept of Obstetrics, Gynecology and Reproductive Medicine  
  Cardiovascular Associations with White Matter Hyperintensities in Healthy Young Women
  Amreen Mughal, PhD, Assistant Professor, Dept of Pharmacology  
  Electro Calcium Signaling in the Brain Endothelium: An Interplay between Voltage and Calcium
  Dev Majumdar, PhD, Assistant Professor, Dept of Surgery  
  Designing an mRNA Therapy for Vascular Trauma
  Margaret Infeld, MD, MS, Clinical Cardiac Electrophysiology Fellow, Dept of Medicine  
  Personalized Accelerated Pacing in Patients with Heart Failure with Preserved Ejection Fraction Improves Heart Failure and Atrial Fibrillation - myPACE Trial
  Maria-Cristina Bravo, PhD, Faculty Scientist, Dept of Biochemistry  
  The Role of Microvesicles in the Peripartum Period
  Debora Kamin-Mukaz, PhD, Postdoctoral Associate, Dept of Medicine  
  D-dimer and the Risk of Incident Hypertension in a Biracial Cohort

10:25-10:45  Break

10:45-11:45  Meet some other Faculty! *  Moderator: Osama Harraz, PhD
  Diann Gaalema, PhD, Associate Professor of Psychiatry and Psychology  
  Smoking, Health-Related Behaviors, and Outcomes in Cardiovascular Disease
  Benedek Erdos, MD, PhD, Assistant Professor of Pharmacology  
  Hypertension and Cerebrovascular Dysfunction
  Nels Olsen, PhD, Assistant Professor of Pathology and Laboratory Medicine  
  Relationships of Peripheral Immune Cell Subsets with Vascular Disease and Dementia

11:45-12:40  Diversity and Inclusion Keynote Address *  Moderator: Julie Dumas, PhD
  Michelle Albert, MD, MPH, Walter A. Haas-Lucie Stern Endowed Chair in Cardiology & Professor of Medicine. Associate Dean for Admissions, University of California, San Francisco  
  President-Elect American Heart Association  Website

12:40-1:40  Lunch Break

1:40-2:20  Study Design and Molecular Epidemiology Core *  Moderator: Peter Durda, PhD
  Leslie Lange, PhD, Professor of Medicine - Bioinformatics, University of Colorado, Denver  Website

2:20-2:30  Closing Remarks *  Mary Cushman, MD, MSc and Mark Nelson, PhD

Thank you to the VCCBH External Advisory Board!
Manuel F. Navedo, PhD, Professor of Pharmacology, University of California, Davis
Suzanne Judd, PhD MPH, Professor of Biostatistics, Director: Lister Hill Center for Health Policy, University of Alabama, Birmingham
Scott Earley, PhD, Professor of Pharmacology, University of Nevada, Reno
Sharon Rounds, MD, Professor of Medicine, Professor of Pathology and Laboratory Medicine, Brown University

Thank you to the Organizing Committee!
Catherine Cate;  Katherine Cheung, MD, PhD;  Marilyn Cipolla, PhD;  Mary Cushman, MD, MSc;  Julie Dumas, PhD;  Osama Harraz, PhD;  Owen Nadeau, PhD;  Timothy Plante, MD, MHS;  Michael Previs, PhD