



June 2<sup>nd</sup> and 3<sup>rd</sup> 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 Capillary Mechanosensation 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 H<sub>2</sub>O<sub>2</sub> in Cells to Assess the Variation in Amyloid- $\beta$  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

- 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  
*Breaking the Shackles: Addressing the Taxonomy of Medical Training to Achieve Health Equity*  
**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  
*Genetic Epidemiology to Bridge Basic and Population Science*  
**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**