



The above image depicts a word art graphic featuring the text "Vermont Center For Cardiovascular & Brain Health" alongside the VCCBH logo, which depicts a heart and brain partially blended with scattered pixels. Below a blue banner states "symposium".

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 am- 9:20 am **Welcoming Ceremonies \*** Co-Directors: Mary Cushman, MD MSc and Mark Nelson, PhD  
Opening Remarks from dignitaries
- 9:20 am- 10:40 am **VCCBH Project Director Presentations \*** Moderator: Mary Cushman, MD MSc  
**Katharine Cheung, MD, PhD**, Assistant Professor of Medicine  
 Presentation Title: *Cognitive Impairment and Trajectory in Chronic Kidney Disease*  
**Osama Harraz, PhD**, Assistant Professor of Pharmacology  
 Presentation Title: *Brain Capillary Mechanosensation by Piezo1 Channels in Health and Disease*  
**Denise Peters, DPT PhD**, Assistant Professor of Rehabilitation and Movement Science  
 Presentation Title: *Clinical, Blood and Neuroimaging Biomarkers as Predictors of Independent Walking Post-stroke*  
**Masayo Koide, PhD**, Assistant Professor of Pharmacology  
 Presentation Title: *Crippled Cerebral Blood Flow Regulation in Chronic Hypertension*
- 10:40 am- 11:20 am **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  
 Presentation Title: *Hiring, Training, and Maintaining Personnel*  
**Julie Dumas, PhD**, Associate Professor of Psychiatry, Co-Director Clinical Neuroscience Research Unit  
 Presentation Title: *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  
 Presentation Title: *Networking at National Meetings*  
**Gagan Deep Bajaj, PhD**, Grant Proposal Developer, Larner College of Medicine  
 Presentation Title: *Staying on Track for Writing your Next Grant*
- 11:20 am- 12:00 pm **Pilot Grant Awardee Presentations \*** Moderator: Mark Nelson, PhD  
**David Punihaole, PhD**, Assistant Professor of Chemistry  
 Presentation Title: *Determining Fibril Structures Using Raman Spectroscopy*  
**Yanguang Ou, PhD**, Assistant Professor of Chemistry  
 Presentation Title: *Measuring H<sub>2</sub>O<sub>2</sub> in Cells to Assess the Variation in Amyloid- $\beta$  Cytotoxicity*
- 12:00 pm-1:00 pm **Lunch Break**
- 1:00 pm-2:00 pm **Science Keynote Address \*** Moderator: Osama Harraz, PhD  
**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](#)  
 Presentation Title: *What is Disease? Defining Pathobiology and Therapeutics in the Era of Big Data*
- 2:00 pm-2:50 pm **Poster Session**
- 2:50 pm-3:00 pm **Concluding Remarks and Announcements \*** Mary Cushman, MD MSc
- 5:30 pm-7:30 pm **Reception**  
 Echo, Leahy Center for Lake Champlain, 1 College Street, Burlington, VT 05401

- 9:00 am-9:20 am **Welcome\*** Mary Cushman, MD, MSc and Mark Nelson, PhD
- 9:20 am-10:25 am **Pipeline Investigator Flash Talks \*** Moderators: Katharine Cheung, MD, PhD & Masayo Koide, PhD  
**Nicholas Klug, PhD**, Postdoctoral Fellow, Dept of Pharmacology  
Presentation Title: *Capillary KATP Channels Regulate Cerebral Blood Flow*  
**Carole McBride, PhD**, Faculty Scientist, Dept of Obstetrics, Gynecology and Reproductive Medicine  
Presentation Title: *Cardiovascular Associations with White Matter Hyperintensities in Healthy Young Women*  
**Amreen Mughal, PhD**, Assistant Professor, Dept of Pharmacology  
Presentation Title: *Electro Calcium Signaling in the Brain Endothelium: An Interplay between Voltage and Calcium*  
**Dev Majumdar, PhD**, Assistant Professor, Dept of Surgery  
Presentation Title: *Designing an mRNA Therapy for Vascular Trauma*  
**Margaret Infeld, MD, MS**, Clinical Cardiac Electrophysiology Fellow, Dept of Medicine  
Presentation Title: *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  
Presentation Title: *The Role of Microvesicles in the Peripartum Period*  
**Debora Kamin-Mukaz, PhD**, Postdoctoral Associate, Dept of Medicine  
Presentation Title: *D-dimer and the Risk of Incident Hypertension in a Biracial Cohort*
- 10:25 am-10:45 am **Break**
- 10:45 am-11:45 am **Meet some other Faculty! \*** Moderator: Osama Harraz, PhD  
**Diann Gaalema, PhD**, Associate Professor of Psychiatry and Psychology  
Presentation Title: *Smoking, Health-Related Behaviors, and Outcomes in Cardiovascular Disease*  
**Benedek Erdos, MD, PhD**, Assistant Professor of Pharmacology  
Presentation Title: *Hypertension and Cerebrovascular Dysfunction*  
**Nels Olson, PhD**, Assistant Professor of Pathology and Laboratory Medicine  
Presentation Title: *Immune Cell Subsets with Vascular Disease and Dementia*
- 11:45 am-12:40 pm **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](#)  
Presentation Title: *Breaking the Shackles: Addressing the Taxonomy of Medical Training to Achieve Health Equity*
- 12:40 pm-1:40 pm **Lunch Break**
- 1:40 pm-2:20 pm **Study Design and Molecular Epidemiology Core \*** Moderator: Peter Durda, PhD  
**Marguerite Ryan Irvin, PhD**, Professor of Epidemiology - University of Alabama, Birmingham [Website](#)  
Presentation Title: *Connecting Genetic Epidemiology and Basic Science for CVD Health*
- 2:20 pm-2:30 pm **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**

**Special guests:**

**Kirk Dombrowski, PhD** -- beginning of the morning 6/2

**Dean William Falls, PhD** – After lunch on 6/2.

**Jason Sanders, MD, MBA** -- 6/2 VCCBH Project Director Presentations (9:20-10:40); 6/3 Genetic Epidemiology to Bridge Basic and Population Science (1:40-2:20).

**Pres. Suresh Garimella, PhD** – No show

**Dean Richard Page, MD** – first 20 min on 6/2