

RMB CVRC Seminar

The Robert M. Berne Cardiovascular Research Center Presents

Matteo Morello, MD and Santosh Karnewar, PhD

Affiliations:

Matteo Morello, MD – Post-Doctoral Research Associate; Dr. Lindner Lab, Robert M. Berne Cardiovascular Research Center, University of Virginia Health System

Santosh Karnewar, PhD – Research Scientist; Dr. Lindner's lab, Cardiovascular Research Center, University of Virginia.



Cavitation Facilitated AAV Transduction

This presentation will focus on multidisciplinary collaborative studies between CVRC and BME that investigating how ultrasound cavitation of microbubble contrast agents can produce site-targeted augmentation of AAV to the heart. These studies are intended to optimize the acoustic environment for AAV delivery and investigate mechanistic underpinnings on a molecular

Inhibition of NLRP3 in Acute MI: Effects on Microvascular Reflow and Remote Plaque Activation

Description: In acute reperfused myocardial infarction, the release of damage-associated molecular patterns (DAMPs) contributes to not only microvascular reperfusion injury, but also thromboinflammatory activation of atherosclerotic plaque in remote non-culprit vessels. This presentation will focus on how advanced non-invasive imaging, including in vivo molecular imaging of endothelial phenotype, is being used to evaluate the salutary effects of pharmacologic inhibition of the NLRP3 inflammasome which is an intermediary between DAMPs and thrombo-inflammatory processes.

Thursday September 26th, 2024 11:00 AM-12:00 PM MR5 Room 3005

Contact:

Mary Sheffer
Program Administrator

CVRC, UVA MR5 1010 PO Box 801394 Charlottesville, VA 22908 434-243-9943

Mt3kx@virginia.edu

Refreshments served