# PIONEERS IN BIOMEDICAL RESEARCH SEMINAR

Presented by the Fralin Biomedical Research Institute at VTC and co-sponsored by the institute's Center for Vascular and Heart Research


## GEA-NY TSENG, Ph.D.

Professor
Department of Physiology and Biophysics
Virginia Commonwealth University School of Medicine


## *Pathways and Regulation of Cardiac Nav1.5 Channel Trafficking in Adult Myocytes*

Voltage-gated Nav1.5 channels need to traffic to the lateral surface and intercalated discs of cardiomyocytes to fulfill their function in action potential propagation within and between cardiomyocytes. Dr. Tseng studies the pathways by which Nav1.5 channels traffic to their destinations, and key regulatory mechanisms involving 14-3-3 and scaffolding proteins. The lab uses adenovirus-mediated expression of Nav1.5 constructs tagged with fluorescent proteins and extracellularly exposed epitope in adult ventricular myocytes, in order to track their movements and quantify their cell surface distribution in a relevant cellular context.

## FRIDAY, MAY 30, at 11 a.m.

Room G101 A/B, 4 Riverside Circle
Watch live via Zoom at https://FralinBioMed.info/PBR-Join

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