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NEUROSCIENCE SPEAKER SERIES



Dr. Lindsay De Biase

Department of Physiology
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CNS Microglia: Immune Cells that Shape Neuron Health and Function

**Tuesday, April 19th
4:00 PM (via Zoom)**

Zoom link: <https://pitzer.zoom.us/j/85773458272?pwd=bnl4b3dCNzd0SnFQTktVYmlWcHJKUT09>
Meeting ID: 857 7345 8272

Abstract: Microglia are dynamic, macrophage-like cells within the CNS. In disease and injury contexts, they undergo dramatic changes in cell phenotype that result in powerful neuroprotective and/or neurotoxic effects. In the healthy brain, microglia remove cellular debris and pathogens from surrounding tissue and can modulate both neuronal membrane properties and synapses, positioning these cells as key contributors to both physiological and pathological circuit function. An overarching goal of our research program is to understand how microglial function is regulated so we can target these cells to treat neurodevelopmental disorders, neurodegenerative diseases, psychiatric illness, and cognitive decline during aging.