

# NEUROSCIENCE TRAINEE LUNCH

## VISITING SPEAKER



Friday, September 21, 2018  
1:00PM

SR415  
Kleysen Institute for Advanced Medicine

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The main focus of my research continues to be on brain energy metabolism in general and purines in particular, regulation of levels of intracellular calcium with emphasis on intracellular pools of calcium, the control of neuronal cell life and death in neurodegenerative diseases, and neurological complications associated with HIV-1 infection. Currently, my laboratory has the following research interests: (1) The role of brain energy metabolism (with particular emphasis on adenosine and ATP) in the pathogenesis of epilepsy and neurodegenerative diseases and the ability of ketogenic diets to protect against these pathophysiological responses; (2) The role of endolysosome dysfunction in animal models of Alzheimer's disease and HIV-1 associated neurocognitive disorder; (3) The protective actions of caffeine in animal models of neurodegenerative disorders; and (4) The ability of calcium in endolysosomes to influence capacitative influx of calcium and calcium-induced calcium release.

## ALL TRAINEES WELCOME