

RESEARCH ROUNDS

Rhythmic brain blood flow: astrocyte contributions and implications for dementia

FEBRUARY 11, 2021 | 12:00 - 1:00 PM (CST)

Streamed webinar via Zoom



Grant Gordon, PhD

Dr. Gordon is an Associate Professor and Canada Research Chair at the University of Calgary. He is a member of the Hotchkiss Brain Institute and of the Department of Physiology and Pharmacology in the Cumming School of Medicine.

The Gordon lab studies the functional relationship between neurons, astrocytes and microvasculature in the neocortex and the links between brain cell activity and the delivery of oxygen and glucose via the blood supply.

Dr. Gordon's team studies this 'neuro-glio-vascular unit' in health and in various models of disease such as dementia. They use two-photon fluorescence imaging, electrophysiology and optogenetics in acutely isolated brain slices or in fully awake mouse in vivo experiments to test their hypotheses.