



## APP Seminar Series



UNIVERSITY OF SASKATCHEWAN  
College of Medicine  
DEPARTMENT OF ANATOMY,  
PHYSIOLOGY AND PHARMACOLOGY  
MEDICINE.USASK.CA

**12:30 pm on Thursday, March 21, 2024**

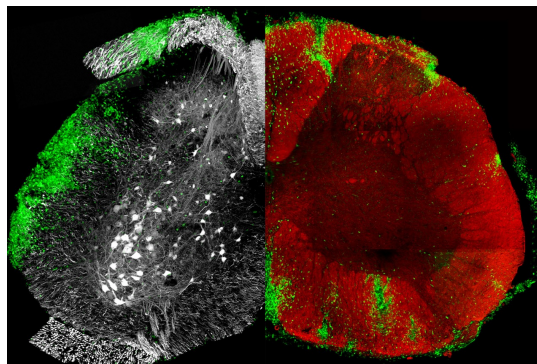
**Location: E1130 HLTH**

Zoom Link: <https://usask-ca.zoom.us/j/91662933615?pwd=NzE0ZVk2Y1RKY2ZPV0N4YVVKzc1pMdz09>

***The IL-1 cytokine system mediates neuroinflammation and pain in a mouse model of multiple sclerosis.***

## Dr. Steve Lacroix, PhD

Professor, Department of Molecular Medicine, Faculty of Medicine and  
Director of Neurosciences, Research Center, Laval University



Research in the **Lacroix** laboratory focuses on identifying inflammatory molecules (cytokines) responsible for neuroinflammation and central nervous system damage and repair during multiple sclerosis (MS). The team aims to better understand the underlying mechanisms of entry of aggressive immune myeloid cells into the brain and spinal cord of MS patients using the mouse model experimental autoimmune encephalomyelitis (EAE). They particularly focus on the damage inflicted to neurons and cells producing the myelin sheath that envelops and protects axons, as well as on the chronic pain that develops during the disease course. To elucidate the mechanisms behind these phenomena and identify new therapeutic targets, they employ cutting-edge techniques in spinal cord and brain microsurgery, transgenic mouse models, two-photon (intravital) and confocal microscopy, videomicroscopy, cell transplantation, and gene therapy.