

TUESDAY, JANUARY 28, 2025

1:00-2:00PM

IN PERSON ROOM 3248 AND ZOOM



**PRESENTED BY:**

**Nader Ghasemlou, PhD**

Associate Professor, Queen's University  
Director, Pain Chronobiology & Neuroimmunology  
Laboratory, Dept. of Anesthesiology & Perioperative  
Medicine, Dept. of Biomedical & Molecular Sciences

*Hosted by Dr. Steve Ferguson*

## **SEMINAR TITLE**

**"CHRONOBIOLOGY AS A TOOL TO DISSECT MOLECULAR,  
CELLULAR, AND BEHAVIOURAL NEUROIMMUNE  
INTERACTIONS"**

### **Learning Objectives**

1. To identify mechanisms through which immune cells and sensory neurons communicate in the healthy and disease state
2. To understand how circadian rhythms affect immune cell recruitment and expression of neuropeptides and inflammatory mediators
3. To highlight the importance of the sensory neuron clock in mediating pain outcomes.