

Graduate Student Positions Available

Supervisor: Laura Trinkle-Mulcahy (www.TrinkleLab.com)

We are seeking highly motivated, collaborative and creative graduate students to join our research team. Protein phosphorylation is a ubiquitous regulatory mechanism involved in a diverse range of cellular signaling pathways. Using cultured human cells as a model organism, we study the intracellular targeting of protein phosphatases via a unique and powerful combination of fluorescence imaging with quantitative mass spectrometry-based proteomics. Our current major research projects include:

- 1. Dissecting the role of nuclear protein phosphatase 1 (PP1) complexes in the regulation of cellular proliferation.*
- 2. Analysis of the dynamic targeting of PP1 activity in response to cellular perturbations, including DNA damage and oxidative stress*
- 3. Identification and characterization of novel PP1 complexes, both spatially (throughout the cell) and temporally (throughout the cell cycle)*

Applicants must have a strong academic record in a relevant field and should have some laboratory experience. Our laboratory is part of the Department of Cellular & Molecular Medicine and the Ottawa Institute of Systems Biology, both of which are highly collaborative environments in which trainees will be given the opportunity to acquire a broad range of skills. These include cell biology-based assays, molecular cloning and protein biochemistry, high resolution multi-wavelength live cell imaging, quantitative proteomics and bioinformatic analysis. Interested candidates should submit a **detailed cover letter describing their interests and future goals, CVs, and contact information for 3 references by email to Dr. Laura Trinkle-Mulcahy (ltrinkle@uottawa.ca).**