

Master's Position Available to Study the Role of the Unfolded Protein Response (UPR) during Spinal Cord Injury - Lindsey/Logue Labs, University of Manitoba

Description of the position:

This project uniquely investigates the role of the unfolded protein response (UPR) in regulating the regenerative ability of neural stem cells following spinal cord injury (SCI) using the zebrafish model. **The objective of the proposed study is to identify the temporal dynamics of UPR signaling during the repair process, characterize the cell types in which the UPR is activated, and ask if modulating UPR signaling can impact upon repair after SCI.** The successful candidate will be jointly supervised by Dr. Benjamin Lindsey (expert in neural stem cells and repair in the zebrafish model) and Dr. Susan Logue (Canada Research Chair in Cell Stress and Inflammation) and learn cutting edge cell biology, microscopy and molecular biology techniques. The successful candidate will be admitted to the Human Anatomy and Cell Science graduate program where they will be expected to complete coursework in addition to their thesis based research. Additionally, the successful candidate will be expected to apply for scholarships to contribute to the stipend provided by Lindsey/Logue.

Eligibility Requirements:

- Excellent academic standing
- Strong work ethic and passion for discovery
- Interest in neuroscience, cell signaling, and microscopy
- Experience or interest in using animal models
- Excellent written and oral communication skills

Deadline: June 1, 2022; **Start Date:** September 1, 2022

Contact information

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