CURRENT RESEARCH OPPORTUNITIES

Graduate Program: Anatomy & Cell Biology, Biochemistry, Epidemiology and Biostatistics, Family Medicine, Medical Biophysics, Microbiology & Immunology, Pathology & Lab Medicine, Physiology & Pharmacology, Neuroscience, Surgery

Research Cluster(s): Imaging

Supervisor(s): Dr. Lisa Hoffman

Keywords: Duchenne muscular dystrophy, microvasculature, heart and skeletal muscle, brain, molecular imaging

Vacancies: 2

MSc/PhD or Postdoc Available?: PhD (4 years)

Description: Overarching Objective: to rescue abnormal microvasculature in Duchenne muscular dystrophy (DMD) to reduce ischemia, chronic inflammation and fibrosis. Hypothesis: Delivery of Ang-1 will restore vascular integrity, and diminish ischemia, inflammation and development of fibrosis, re-establishing a microenvironment that supports repair. Students will use below methods to fully characterize abnormal microvasculature in both DMD mouse and patient samples, to improve endogenous tissue repair, minimize fibrosis, and enhance the efficacy of cell replacement therapy for the treatment of DMD.

To Apply: Applicants must independently apply to the program using the online Western application portal, including a clear reference to the supervisor

Application Deadline: None at this time

Contact Information: Questions regarding the application process, or inquiries about the program may be addressed to the Academic Programs Coordinator, for more information about the description/design of the project, you may contact Dr. Hoffman directly: lhoffman@lawsonimaging.ca