

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):

Supervisor(s): Dr. Donglin Bai

Keywords: Gap junction, patch clamp, ion channels, connexins

Vacancies: 1

MSc/PhD or Postdoc Available?: MSc, PhD (2 year duration)

Description: We are interested in how gap junction channels are formed (such as docking between two hemichannels) and their channel gating and permeation properties. We are looking for a MSc or PhD student to perform dual patch clamp to study the gap junction channel biophysical properties with support of an NSERC grant. The applicant should have strong background knowledge on electrophysiology and hands on skills.

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. Bai directly: bdonglin@uwo.ca

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

Supervisor(s): Dr. Rommel Tirona

Keywords: Mushroom poisoning, antidote, pharmacokinetics, drug transport

Vacancies: 2

MSc/PhD or Postdoc Available?: MSc (2 year duration), PhD, Postdoctoral Scholar (4 year duration)

Description: Ingestion of mushrooms that contain compounds called amatoxins can result in potentially fatal liver damage. We are evaluating the safety and efficacy of an experimental antidote for amatoxin mushroom poisoning in the clinic and the laboratory. Studies will explore the molecular mechanisms for amatoxin cellular transport and antidote effects using in vitro models. Mouse models of amatoxin poisoning will determine optimal dosing strategies for the experimental antidote. We will characterize the clinical pharmacology of the antidote in patients receiving the experimental treatment.

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. Tirona directly: rtirona@uwo.ca

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):

Supervisor(s): Dr. Adrian Owen

Keywords: fNIRS, cognitive neuroscience, brain injury, consciousness

Vacancies: 1

MSc/PhD or Postdoc Available?: Post-doctoral (1year)

Description: The Owen Lab in London, Canada is pleased to announce a Canadian Institute for Health Sciences (CIHR) funded postdoctoral fellowship in cognitive neuroscience, focusing on the development of fNIRS methods for the assessment of preserved cognitive function and consciousness after severe brain injury. The ideal candidate should have a solid background in fNIRS methods and, possibly (but not necessarily), previous experience with brain-injured populations. The position is for a one-year contract (renewable up to 3 years) and the salary will be set according to the candidate's experience.

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. Owen directly: uwocerc@uwo.ca

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

Supervisor(s): Dr. Brian Corneil

Keywords: Motor control; Visually-guided actions; Brain Stimulation; Parkinson's Disease

Vacancies: 3

MSc/PhD or Postdoc Available?: MSc, PhD (2-5 year duration)

Description: We're expanding! The Corneil lab has multiple opportunities for grad students (MSc or PhD). Starting time is flexible. Major research topics include the brain circuits mediating our most rapid responses and how such circuits change in aging and diseases like Parkinson's Disease. We also leverage our understanding of these circuits to better understand novel forms of non-invasive brain stimulation. Collaborations with local and international colleagues make for an outstanding research environment. See <https://www.corneil-lab.com/news> and send CV and interests to bcorneil@uwo.

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. Corneil directly: bcorneil@uwo.ca