Laboratory Of Cellular And Molecular Neuroscience

Graduate Student/Postdoctoral Positions in Electrophysiology

Two CIHR-funded positions are available immediately for enthusiastic graduate students and/or postdoctoral fellows with a keen interest in using electrophysiology and imaging techniques to study ligand-gated ion-channels and their role in neuronal circuit behavior.

The first project will focus on an ongoing theme to understand the structure-function properties of ionotropic glutamate receptors. The successful applicant will use single-channel and macroscopic patch clamp techniques to tease apart the mechanism of channel activation in wildtype and mutant receptors. This work will be part of a multilab collaboration with researchers using computational chemistry and structural biology.

The second project will examine the signaling defects associated with Fragile X syndrome, a prominent neurodevelopmental disorder. The successful applicant will study neuronal circuit connectivity using single and multi-electrode recordings from acutely isolated brain tissue. Imaging and functional experiments will be collected simultaneously using a multiphoton microscope equipped with an electrophysiology rig.

Related Publications

*Student stipends will be based on the policy recommendations of individual McGill Graduate Programs. Postdoctoral salaries will be based on CIHR recommendations and level of experience*

McGill University is one of Canada's leading post-secondary institutions with the main campus located in the heart of the lively downtown area of Montreal. McGill attracts students and researchers from more than 150 countries around the world. Almost half of McGill students claim a first language other than English with more than 6,800 international students making up almost 20 per cent of the student body.

Applicants should send a cover letter, cv and the names of 2-3 referees to:

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