

STUDYING SIGNAL TRANSDUCTION IN INNATE IMMUNITY, GPCR SIGNALING AND COLORECTAL CANCER

Ph.D. STUDENT / POST-DOC POSITION

A research position is available in the Laboratory of Molecular Immunopharmacology at the Faculty of Pharmacy, Université de Montréal. This laboratory uses a combination of mouse genetics, cell biology and pharmacological approaches to understand how cells integrate various signals coming from extra-cellular factors such as viruses and growth factors into the regulation of host cell innate immunity. Two major projects are currently funded. One project consists in understanding the role of effectors of the innate immune system, namely the E3 ubiquitin ligase TRAF6, in G protein-coupled receptors signalling events. The other project focuses on the role of cellular synapses (contact between organelles) in the signaling cascades leading to the antiviral type I IFN response. Specific projects include but are not restricted to:

- 1) Studying the role of unanchored polyubiquitin chains in the context of MAPK activation by G protein-coupled receptors
- 2) Understanding the implication of mTOR phosphorylation by TBK1 in antiviral innate immunity
- 3) Studying the role of the ER-to-Golgi vesicular compartment in type I IFN antiviral signaling event
- 4) Addressing the role of deubiquitinating enzymes and beta-Catenin signaling in colorectal cancer-derived cell lines

Candidates should have a M.Sc. or Ph.D. degree in biochemistry, molecular biology, pharmacology, virology or related fields who preferably has experience/interest in signal transduction. Funding is available for a minimum of two years. Only highly motivated individuals with teamwork skills will be considered. Interested individuals should send their CV and names of three references to:

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