

Research Center of the Centre hospitalier de l'Université de Montréal

The Research Center of the Centre hospitalier de l'Université de Montréal (CRCHUM) is the largest research center in biomedical sciences and health care at the University of Montreal, and among the largest in Canada. Located at the Champs de Mars metro station, the CRCHUM offers a dynamic and innovative work environment in ultramodern facilities at the cutting edge of technology.

The CRCHUM promotes job stability and supports the development and professional improvement of its employees who benefit from a full range of social benefits (flexible hours, teleworking policy, pension plan (REGOP), generous leave policy).



Job Description

Graduate student positions (M.Sc. and Ph.D.) are available in the research group of Dr. Gareth Lim in Department of Medicine at the Université de Montréal and the Centre de recherche du Centre hospitalier de l'Université de Montréal (CRCHUM).

The laboratory of Dr. Gareth Lim (<https://limlab.ca>) is seeking highly motivated students to join a young and vibrant research group to explore the physiological roles of molecular scaffolds belonging to the 14-3-3 protein family in glucose homeostasis and metabolism. Little is known of the contributions of molecular scaffolds, which coordinate signaling events in cells, to whole-body metabolism and glucose homeostasis. Furthermore, it is known that perturbations in metabolic signaling pathways can promote the development of cardiometabolic diseases, such as diabetes and obesity. Whether they are involved in the pathogenesis of these diseases is not well known. Studies will focus on elucidating the biological functions of 14-3-3 proteins in insulin-producing pancreatic beta-cells, as well as adipocytes, which are key cell types involved in the development of diabetes and obesity. Traditional biochemical and molecular approaches, mouse genetic models, as well as unbiased proteomic and transcriptomic approaches will be used to address these research goals. It is the hope that these studies may lead to the development of therapies to treat diabetes and obesity.

Qualifications

- ✓ Students with a background in physiology, pharmacology, or biochemistry are encouraged to apply.
- ✓ Previous hands-on laboratory experience is preferred, but not essential.
- ✓ Highly motivated, able to work independently or in a team setting, and critical thinking skills

To Apply

Interested candidates should e-mail a letter of motivation, CV, transcripts, and contact information for 2-3 references to: gareth.lim@umontreal.ca

Relevant publications or pre-prints :

1. Mugabo Y and Lim GE. (2018). *Endocrinology*. 159(11): 3615-30
2. Mugabo Y, et al. (2018). *J Biol Chem*. 293(18): 6736-50.
3. Diallo K, et al., (2020). *Mol Metab*. 41: 101052
4. Oponng et al., (2020). *Am J Physiol Endo Metab*. 319 : E117-E132
5. Abou Azar F and Lim GE. (2021). *Front Cell Dev Biol*. 9: 709823
6. Mugabo Y et al. (2021). bioRxiv : 464702
7. Abou Azar et al. (2022). bioRxiv : 478896

Gareth Lim, Ph.D.

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Only successful candidates will be contacted for an interview.

The CRCHUM invites women, Aboriginals, visible minorities, ethnic minorities and people with disabilities to apply. The CRCHUM adopts a broad and inclusive definition of diversity that goes beyond applicable laws. The CRCHUM thus encourages all people, regardless of their characteristics, to apply. In accordance with Canadian immigration requirements, please note that priority will be given to Canadian citizens and permanent resident.