

Postdoctoral Fellow(s) in Islet Biology

One or more postdoctoral positions are available within the MacDonald group for applicants who have recently obtained or will soon be completing a PhD in biomedical science or a related field. Successful applicants will have a record of outstanding research, whether published or otherwise, and both the desire and ability to lead projects within a collaborative environment.

The position(s), supported by a CIHR Foundation Grant, focus on the elucidation of novel pancreatic islet biology in human tissue and/or model systems. Broad areas of interest include but are not limited to: mechanisms of pancreatic beta-cell (dys)function in human health and diabetes; collaborative approaches to connect single-cell function with transcriptomic and genomic analyses; signalling and structural determinants of excitability and secretory granule fusion; and phenotyping of islet cells in human type 1 diabetes and T1D models.

Abundant technical expertise and research resources will be available to the successful applicant(s). Our group is well-equipped for the study of excitable secretory cells, housing a large in-lab infrastructure for electrophysiology, cellular imaging, molecular biology, and biochemistry. Additional core resources for proteomics, genomics, cell sorting, etc. are available through nearby institutional core facilities. Notably, our laboratory includes an in-house human research islet isolation and distribution program that allows tight integration between human tissue processing and experimental study. We supply human islets to over 80 groups in North American and Europe. Applicants will be encouraged to engage with this network to establish new collaborations, drive innovative projects forward, and develop their independent research.

These positions will be offered for an initial period of 2 years (with possibility of extension) at a salary level commensurate with experience and University guidelines. Interested individuals may submit their CV, cover letter, and contact information of three references to Prof. MacDonald (pmacdonald@ualberta.ca). Consideration of Applications will commence on September 30, 2018, until October 31 or until the position is filled.

Informal inquiries and discussion about potential projects are welcome!

The Alberta Diabetes Institute (ADI; adi.ualberta.ca) is home to a broad range of research groups focused on studying diabetes from the level of individual molecules to entire populations. Within the University of Alberta, our laboratory belongs to the Department of Pharmacology (www.ualberta.ca/pharmacology) together with research groups interested in neurophysiology, molecular pharmacology, cardiovascular biology, and diabetes.

The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.