

POSTDOCTORAL POSITION AVAILABLE

Poitout Laboratory
www.poitoutlab.ca

University of Montreal Hospital Research Center
900 Saint-Denis St., Montréal, QC, Canada

ROLE OF THE REGULATOR OF G PROTEIN SIGNALING RGS9 IN PANCREATIC ISLET FUNCTION

Our laboratory is studying pancreatic islet biology using *ex vivo* systems and preclinical models. More specifically, a significant portion of our research programs aims to decipher the function and mechanisms of action of G protein-coupled receptors and their regulatory proteins in islets [1]. In a previous study we discovered that the regulator of G protein signaling RGS16 regulates insulin secretion and beta-cell proliferation [2].

The objective of this postdoctoral project is to unravel the mechanisms whereby RGS9 regulates hormone secretion from rodent and human islets. Methodologies to be employed include mouse islet isolations, adenoviral transduction of rodent and human islets, measurements of beta-cell proliferation by flow cytometry, assessment of hormone secretion in static incubations and perfusions, and immunohistochemistry.

The successful applicant will hold a PhD or equivalent. Experience in islet biology and assessment of glucose homeostasis is required. Salary will be determined based on previous experience. The position is available as of July 1, 2026.

The Research Center of the University of Montreal Hospital offers a vibrant scientific environment and many state-of-the-art core facilities in the heart of downtown Montréal.

Please send a cover letter and curriculum vitae, including the names of three references, to labo.poitout@gmail.com

References

- [1] Ghislain, J., Poitout, V., 2021. Targeting lipid GPCRs to treat type 2 diabetes mellitus - progress and challenges. *Nature reviews Endocrinology* 17(3):162-175.
- [2] Vivot, K., Moule, V.S., Zarrouki, B., Tremblay, C., Mancini, A., Maachi, H., et al., 2016. The regulator of G-protein signaling RGS16 promotes insulin secretion and β -cell proliferation in rodent and human islets. *Molecular Metabolism* 5(10):988-996.

For a full list of the Poitout lab publications, please click [here](#)