



## AVAILABLE POSTDOCTORAL POSITION

Poitout Laboratory - [www.poitoutlab.ca](http://www.poitoutlab.ca)

### University of Montreal Hospital Research Center (CRCHUM)

900 Saint-Denis St., Montréal, QC, Canada

A position for postdoctoral fellow is available in the Poitout laboratory at the University of Montreal Hospital Research Center to conduct a project on the molecular mechanisms of beta-cell proliferation in puberty.

Our laboratory is studying pancreatic beta-cell biology and its perturbations in type 2 diabetes. In a recent study, we have shown that insulin resistance during puberty is associated with a wave of beta-cell proliferation in rats and humans [1].

The objective of this postdoctoral project is to decipher the molecular mechanisms underlying beta-cell proliferation during puberty in rodent and human beta-cells. Methodologies to be employed include rat and mouse islet isolations, adenoviral transduction of rodent and human islets, measurements of beta-cell proliferation by flow cytometry, assessment of hormone secretion, and islet transplantation in the anterior chamber of the eye.

#### Requirements:

- PhD in health sciences (physiology, pharmacology, cell biology, biochemistry, etc.)
- Experience in islet biology and/or glucose homeostasis
- Highly motivated, autonomous, and ready to work in a team

Employment conditions and stipend according to CRCHUM policies.

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

Interested candidates should send a curriculum vitae, letter of motivation, and the names of 2 references, to: [vincent.poitout@umontreal.ca](mailto:vincent.poitout@umontreal.ca)

#### References:

1. Castell, A.L., et al., *beta Cell mass expansion during puberty involves serotonin signaling and determines glucose homeostasis in adulthood*. JCI Insight, 2022. 7(21).

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

