

A doctoral position in functional proteomics is available at the Université de Sherbrooke (Quebec, Canada), in the department of biochemistry. The successful candidate will investigate the function of novel proteins predicted from proteogenomics approaches, and translated from unannotated open reading frames. Further information on this topic is available here:

- <https://elifesciences.org/articles/27860>
- <https://genome.cshlp.org/content/28/5/609.long>
- <https://www.science-et-vie.com/corps-et-sante/les-proteines-fantomes-des-cellules-humaines-une-video-science-vie-tv-8185>
- <https://www.the-scientist.com/?articles.view/articleNo/51901/title/A-Systematic-Approach-to-Finding-Unannotated-Proteins/>
- [www.openprot.org](http://www.openprot.org)

The project will focus on the regulation of the Frizzled-beta catenin signaling pathway in colorectal cancer by the alt-Frizzled protein, coexpressed with the Frizzled protein from the same human gene. Hence, the Frizzled gene is bicistronic and encode two different proteins that cooperate in the same signaling pathway.

We are looking for a highly motivated candidate with a Master 2 degree in biochemistry or a related discipline, an expertise in proteomics and a background in cell signaling. Good computational skills would be an asset.

This doctoral position represents a considerable opportunity for a qualified candidate. Little research has been done on proteins translated from unannotated open reading frames, and we foresee a number of straightforward high-impact publications that could result.

To apply, please send an email to [xavier.roucou@usherbrooke.ca](mailto:xavier.roucou@usherbrooke.ca) with subject "doc application", and a single pdf file including: CV (2-page max), research interest and experience (1 page max.), university transcripts (Master and before Master), and the name and contact information of 2-3 references.

The doctoral scholarship at the Université de Sherbrooke is \$ 18,000. The position is to be filled ASAP. Given the administrative delays in obtaining a student visa for non-Canadian candidates, it can take 1 to 3 months between accepting the position and starting the project.

Sherbrooke is a university town nestled in the beautiful Eastern Townships of the Province of Quebec, close to the US border and just a short drive away from Montreal and Quebec City. The Université de Sherbrooke provides an exceptional quality of work and life environment: cost of living is low, with excellent access to outdoor activities.

Xavier ROUCOU, PhD

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