



[Position for a PhD student in lung physiopathology](#)

Site : Centre de recherche du CHUM, Hôpital Hôtel-Dieu
Université de Montréal, Médecine, Montréal, Québec, Canada

Laboratory of : Brochiero, Emmanuelle, Associate Professor

Web site: <http://www.chumtl.qc.ca/crchum/chercheurs/chercheurs-liste/brochiero-e.fr.html>

Project description:

Our laboratory is interested in understanding the pathophysiology of lung diseases, particularly cystic fibrosis (CF), acute lung injury (ALI/ARDS) and lung cancer. The candidate will be involved in a project funded by the Canadian Institutes of Health Research. The main goal of this project is to better understand the mechanisms of alveolar regeneration and lung edema resolution after acute lung injury, using cellular and animal models. This study will combine several experimental approaches, such as primary cell culture; videomicroscopy; measurements of cell migration, proliferation and cell cycle; evaluation of protein-protein interactions, electrophysiology, as well as in vivo and transgenic models.

References :

1. Trinh NT, Privé A, Kheir L, Bourret JC, Hijazi T, Amraei MG, Noël J, Brochiero E. Involvement of KATP and KvLQT1 K⁺ channels in EGF-stimulated alveolar epithelial cell repair processes. *Am J Physiol Lung Cell Mol Physiol* 2007 Oct;293(4):L870-82.
2. Trinh NT, Privé A, Maillé E, Noël J, Brochiero E. EGF and K⁺ channel activity control normal and cystic fibrosis bronchial epithelia repair. *Am J Physiol Lung Cell Mol Physiol* 2008 Nov;295(5):L866-80.
3. Bardou O, Trinh NT, Brochiero E. Molecular diversity and function of K⁺ channels in airway and alveolar epithelial cells. *Am J Physiol Lung Cell Mol Physiol* 2009 Feb; 296(2):L145-55.
4. Med Sci (Paris). 2009 Apr;25(4):391-7 (en français)

Qualifications:

We would like to add to our team a highly motivated graduate student, with lab research experience and good bench skill. Applicants should hold a MSc (with high academic records) in biomedical sciences, biochemistry, physiology, cellular or molecular biology (or related topics). French and English knowledge is an asset.

Candidates will be registered in the program of sciences biomédicales ou [programme de physiologie moléculaire, cellulaire et intégrative](#).

Contact:

Applicants should submit by email a resume, a list of publications, university records and the names, with contact information, of two references that could comment on your academic and scientific achievements if possible in one .pdf document.

Available: Autumn 2011, open until filled. Successful candidates will be supported by research grants (salary based on CIHR guidelines) and will have the opportunities to apply at various competitions for studentship.

Contact info: Dr Emmanuelle Brochiero Emmanuelle.brochiero@umontreal.ca