



[Position for a PhD Student in Cerebrovascular regulation in health, ageing and disease.](#)

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Web site: <http://www.criugm.qc.ca/chercheur.html?id=148>

Laboratory theme: Cerebrovascular regulation in health, ageing and disease.

Project description:

Our research interest is the study of the cerebrovascular regulation. More particularly, we seek to understand the pathways underlying functional hyperemia, the dynamic linkage between neuronal energy needs and local blood supply. Functional hyperemia reflects the communication between neurons, astrocytes and the cerebral microcirculation. This position represents an interesting opportunity to join a new team using state-of the art in vivo and in vitro techniques to study the emerging field of neurogliovascular communication in health and disease.

R  f  rences :

Girouard H, Park L, Anrather J, Zhou P, Pardee C, Iadecola C. Cerebrovascular nitrosative stress mediates neurovascular and endothelial dysfunction induced by angiotensin II. *Arterioscler Thromb Vasc Biol.* 2007; 27(2): 303-309.

Girouard H, Iadecola C. Invited Review: Neurovascular coupling in the normal brain and in hypertension, stroke and Alzheimer disease. *J. Appl. Physiol.* 2006; 100(1): 328-335.

Discipline : Neurovascular pharmacology and physiology, cellular biology, molecular biology.

Qualifications :

Candidates must have a degree in biological sciences or related field. Priority will be given to highly motivated candidates. Prior laboratory experience would be valuable.

Contact:

Please send by email a cover letter describing your interests, a complete CV, academic transcripts and the names of three references to helene.girouard@umontreal.ca