



## Postdoctoral fellowship exploring neurophysiological adaptations to hypoxia in African mole rats

The Pamenter Lab at the University of Ottawa invites applications for a post-doctoral fellow in comparative neurophysiology. The position will commence on January 1<sup>st</sup>, 2017 (flexible). The fellowship duration will be at least 1 year with an opportunity to extend to up to 3 years with demonstrated performance. Candidates with external funding will be eligible for a generous top-up.

In addition to a broad interest in comparative physiology, candidates should have a solid background in mammalian brain-slice electrophysiology and/or live-tissue microscopy. Experience in small mammal surgery (especially MCAO or similar approaches) would be beneficial.

The successful candidate will employ *in vivo* and *in vitro* techniques to explore putative cellular, synaptic, and 2<sup>nd</sup> messenger signaling pathways that modulate neuronal energetics and protect the brains of hypoxia-tolerant species during periods of low oxygen and/or ischemic stresses. A number of model organisms are available for study in the lab, although we are particularly interested in the biology of naked mole rats, which are among the most hypoxia-tolerant mammals identified, and other African mole rat species. To learn more about current and past research projects, visit <u>pamenterlab.ca</u>

The University of Ottawa is located in vibrant heart of Canada's Capital region. The lab is a member of both the uOttawa <u>Comparative Physiology</u> group, which is among the topranked globally, and also the <u>uOttawa Brain and Mind Research Institute</u>, which is a national leader in neuroscience research, affording a variety of exciting collaborative opportunities with leading physiologists and neuroscientists.

Candidates interested in the position should submit a cover letter outlining their interests, a CV including a list of publications, and contact information for 2-3 academic references to Matthew Pamenter: <a href="mailto:mpamenter@uottawa.ca">mpamenter@uottawa.ca</a>