

The Centre for Addiction and Mental Health (CAMH), the Campbell Family Mental Health Research Institute, Department of Psychiatry, University of Toronto

**Postdoc positions available: to study the cellular and molecular mechanisms of major depression; Other studies include aspects of normal brain aging and interaction with neuropsychiatric disorders.**

Dr. Etienne Sibille is relocating his lab from the University of Pittsburgh to CAMH (College street campus). Join the new team as of the summer of 2014. This is a unique opportunity if you want to investigate the neurobiology of brain diseases, think outside the box, develop creative research approaches, and make a difference in building a new team. Research efforts in the Sibille lab are primarily directed toward understanding the cellular and molecular mechanisms of major depression through translational studies in the human postmortem brain and in rodent models of the illness. Examples of current research include depression-related changes in the local GABA cortical microcircuitry, and the cellular, molecular and genetic bases of human brain aging, and their contribution to brain disorders. See [www.sibille.pitt.edu](http://www.sibille.pitt.edu) for current research and publications.

**Postdoc Positions are available to study the following topics:**

- **Cell-specific molecular pathology of depression in human postmortem brain and genetic mouse models.** The goal is to characterize intrinsic biological vulnerabilities of specific cell populations in the context of depression in the human postmortem brain and in genetic mouse models. *Expertise needed: Neuroscience, neurobiology of disease, laser capture microscopy, single cell population analysis, molecular biology (DNA, RNA, protein), genomics, mouse genetics, mouse/human anatomy, histology, microscopy.*
- **Mechanisms of brain accelerated aging in depression.** Based on the hypothesis that pathophysiological mechanisms of major brain disorders, including depression, stem from normal age-related processes, non-dividing and long-lived neurons have adopted strategies to counter the biological hallmarks of aging. The goals are to characterize those adaptations in the human postmortem brain and to test mechanisms in various experimental models (c.elegans, cell-based systems, rodents, etc). *Expertise needed: Neuroscience, laser capture microscopy, single cell population analysis, molecular biology (DNA, RNA, protein), genomics, bioinformatics, human anatomy, histology, microscopy, basic experimental models, biochemistry, cell biology.*
- **Preclinical studies of antidepressant activity.** Assess novel targets based on human primary evidence of pathology in depression, develop strategy (pharmacology, mouse genetics), implement evaluation program (integrated behavior, anatomy, molecular). *Expertise needed: Neuroscience, mouse genetics, rodent behavior, molecular biology (DNA, RNA, protein), neuropharmacology, viral vector strategies, rodent surgery, stereotaxic injection, anatomy, histology, microscopy.*

Writing manuscripts and applying for independent grants will be strongly encouraged for all positions. Highly motivated candidates (Ph.D. and/or M.D.) should submit a curriculum vitae, names of 3 references and a cover letter expressing their interest, brief description of research experience, and their qualifications for one of the specific positions described above. Send information to **Etienne Sibille, Ph.D. at [sibilleel@upmc.edu](mailto:sibilleel@upmc.edu)**