Graduate student in biochemical Pharmacology

Field: Research and Development

Location: McGill University, Montreal, Canada

Research Area: Biology and Life Science

Protein interactions in Alzheimer disease

Supervisor: Dr. Gerhard Multhaup
http://www.mcgill.ca/pharma/facultystaff/faculty/gerhard-multhaup

Alzheimer disease (AD) is the most prevalent neurodegenerative disorder in the world, estimated to currently affect over 35 million people. Amyloid-β (Aβ) peptides are the primary culprits in the pathogenesis. Over the last several years, our research has focused on elucidating the molecular mechanisms of Aβ generation, particularly the interplay of APP and its processing secretases and we have made several key contributions (see refs below). We recently set up a new laboratory with state-of-the-art equipment and technology in the Department of Pharmacology & Therapeutics at McGill University in Montreal focused on research in the field of AD. The current objective of our research is to study in detail whether and how secretase modulators that have been shown to reduce the risk of developing AD have the ability to effectively and specifically interfere with the homointeractions of substrates and enzymes involved in Aβ generation, aggregation and Aβ-induced toxicity.

We offer:
The possibility to work on a cutting-edge project using state-of-the-art technology like Biacore and MALDI-MS in a highly motivated research team.
A stimulating international research environment and advanced training opportunities.
A competitive stipend.

Required for graduate studies:
Undergraduate degree or Master or Diploma in Molecular Biology, Biochemistry or related subjects.
Motivation to work on complex biological problems.

Find out more about our program and apply to graduate studies in Pharmacology at:
http://www.mcgill.ca/pharma/prospective-students/graduate-program/applying-department. If accepted into our program for next September, you could start working in the lab prior to starting your graduate studies.

References: