POSTDOCTORAL RESEARCH FELLOW POSITION (24 months)
In Bioorganic Chemistry/Neuroscience

Title: Synthetic Peptides as mimics of DCLK2, a MAP protein involved in neural repair

Workplace: the project is co-directed in bioorganic chemistry/neuroscience

Department of Molecular Chemistry (DCM, UMR CNRS/UGA 5250) – I2BM team – University Grenoble Alpes (France)
contact: sabine.chierici@univ-grenoble-alpes.fr

The 'I2BM' laboratory is part of the Department of Molecular Chemistry DCM-UMR 5250, and has expertise in bioorganic chemistry. In particular, the laboratory is interested in the design, the synthesis and the evaluation of peptide macromolecular system encompassing "custom-made" building blocks used for diagnostic and therapeutic applications. For instance, this concerns pathologies such as cancer and neurodegenerative disease.

Grenoble Institute of Neuroscience (GIN – Inserm 1216) – 'Central Nervous System: from development to repair' team – University Grenoble Alpes (France)
contact: homaira.nawabi@inserm.fr

The team is part of the Grenoble Institute of Neurosciences GIN-U1216, a research center devoted to understanding brain functions in health and diseases. The GIN groups Grenoble research teams specializing in the study of physiological processes or in pathologies of the nervous system and in the development of innovating technics to explore them. The GIN is founder member of the Grenoble center of excellence in neurodegenerative disorders (GREEN).

We are seeking a highly motivated scientist to participate to a multidisciplinary research project. Neurons in the Central Nervous System (CNS) are not able to regenerate, leading to devastating loss of critical motor or cognitive functions. The aim of the lab is to identify new molecules and pathways to promote both neuroprotection and regeneration in the CNS in order to rebuilt functional circuits. Previous work of Nawabi Lab identified DCLK2 (doublecortin like 2) as a critical player in protecting neurons from death after axonal lesion. The goal of this postdoctoral project is, as a translational approach, to design small peptides that mimic DCLK2 function and test their neuroprotective effect in-vitro and in-vivo in axonal injury and/or glaucoma paradigm.

Experience in peptide chemistry, molecular and cellular biology are required. Additional knowledge in neuroscience would be an advantage. The post-doc will start in September 2017, for a period of 24 months.

Application: Candidates should apply by sending a CV, a brief outline of current research, scientific interests and career goals, as well as the name and contact details of at least two academic references to homaira.nawabi@inserm.fr and sabine.chierici@univ-grenoble-alpes.fr.