

Post-doctoral position in central nervous system regeneration and therapy development for eye diseases

Postdoctoral position in Stephane Belin's team (Grenoble Institute of Neuroscience GIN INSERM U1216, University Grenoble-Alpes) and Sabine Chierici's team (Department of Molecular chemistry, DCM UMR5250 University Grenoble-Alpes). Stephane Belin's team is specialized in the analysis of mechanisms of axon regeneration in the central nervous system and particularly in the visual system. The group of Sabine Chierici focuses on the design and the study of biomolecular compounds with strong expertise in peptide chemistry and chemoselective ligations.

This is a 3 years position funded by an ANR project.

Background: Over the past decade, several targets have been identified to promote neuroprotection and/or regeneration in the central nervous system. A major roadblock is now to move these targets into drugs development. In this context, the visual system is the gold standard to test drug candidates in order to understand and cure eye disease such as glaucoma. Our team recently identified a neuronal protein able to promote both neuroprotection and regeneration. In collaboration with Dr Chierici's team, we set-up a peptidomimetic approach in order to generate a treatment against glaucoma.

The goal of the postdoctoral project is to validate the neuroprotective/regenerative potential of peptides in-vitro and in-vivo and their efficiency as an anti-glaucoma treatment. The postdoc will be in charge to lead the project under the supervision of both Dr Chierici and Belin and in close collaboration of their respective team.

Qualification: We seek an enthusiastic, highly motivated post-doctoral fellow to work on glaucoma disease, regeneration and neuroprotection. The candidate needs to hold a PhD with good record of publications, preferentially with no more than 2 years after getting PhD. Candidate needs to have a strong background in neurobiology, biochemistry with knowledge in cell culture, western blot, immune-fluorescence and microscopy. Experience and licences to work with animals is a plus (level concepteur or experimentateur).

We offer a close supervision in both motivated teams and a stimulating scientific environment for a transdisciplinary project. The postdoc will have access to state-of-the-art equipment related to the project. She/he will interact with interdisciplinary groups and will receive mentoring for career development.

Location: The project will take place mainly at the GIN (research center devoted to understanding brain functions in health and diseases located in Grenoble) and DCM (Institute devoted to chemistry also located in Grenoble).

How to apply:

Candidates should email a cover letter, a CV and at least two reference letters to:

Stephane Belin (stephane.belin@inserm.fr) and Sabine Chierici (sabine.chierici@univ-grenoble-alpes.fr)

References to the project from the teams:

Customization of translational complex regulates mRNA-specific translation to control CNS regeneration. *Neuron*. 2023 Jul 7: S0896-6273(23)00465-8. doi: 10.1016/j.neuron.2023.06.005
PMID: 37442131

A single domain antibody for the detection of pathological Tau protein in the early stages of oligomerization. *J. Transl. Med.* 2024 Feb16;22(1)163. doi: 10.1186/s12967-024-04987-1