



Postdoctoral position in Neurobiology

Lyon, France

A **postdoctoral position** is available in the laboratory of Julien Courchet at the **NeuroMyoGene Institute** within the University of Lyon, France.

Our group studies the molecular mechanisms underlying axon outgrowth and neural circuits formation in the mouse cerebral cortex. Our current research is supported by an **ERC Starting Grant** and funds from **AFM-telethon** to explore how a dynamic regulation of the energy metabolism is involved in axon morphogenesis and cortex development. We focus on a previously identified kinase pathway controlling terminal axon branching through the regulation of mitochondria trafficking and distributing in developing axons (*Cell* 2013, *Nat comm* 2018, *bioRxiv* 2020). Building on this previous research, the selected candidate will use a combination of whole cell metabolomics, real-time fluorescent videomicroscopy and live 2-photon imaging to characterize some of the molecular mechanisms involved in the local regulation of mitochondria function in developing axon *in vivo*.

The selected candidate will join a young research team within a **dynamic and collaborative scientific environment** at the newly created NeuroMyoGene Institute (INMG). The candidate will have access to state-of-the-art facilities for imaging and metabolic analyses, including high quality confocal and 2-photon microscopes, animal phenotyping centers and a seahorse analyzer. Our institute is located in a newly renovated laboratory space in the Rockefeller faculty of Medicine in close proximity to the Neuroscience and the Cancer Research Centers.

Applicants should have a PhD degree or equivalent with a strong background and practical experience in neurobiology, confocal microscopy and/or real-time imaging. Previous experience working with rodent models is required. Training in techniques relevant to cell signaling, metabolic regulation and optogenetics would be an asset. We are looking for a highly motivated candidate with a strong attitude towards independent work and good interpersonal and communication skills. Excellent written and spoken English skills are essential. Ability to speak French is not mandatory.

The initial appointment is one year and can be renewed for 2 additional years. Salary including benefits will depend on previous experience according to guidelines at the University of Lyon. Applications will be reviewed on a rolling basis until position is filled. Selected candidates will be invited for an interview in the second half of 2020, pending current travel restrictions.

Interested candidates should contact Dr Julien Courchet (julien.courchet@univ-lyon1.fr) with their CV, a summary of their previous research (< 1 page), a brief statement of their research interests and career goals, as well as the contact information for at least 3 references.