« Therapy for Giant Axonal Neuropathy»

Job offers: postdoctoral scientist, & engineers
The Bomont laboratory, and the partner Puccio are seeking highly motivated candidates in the development of therapy for neuromuscular diseases.

Science. Bomont laboratory has a long-lasting expertise in the fatal neuromuscular disease called Giant Axonal Neuropathy (GAN)[1]. The team identified the defective gene[2], which encodes for the Gigaxonin-E3 ligase and modelized the disease in mouse and zebrafish, to unravel pivotal roles of Gigaxonin in cytoskeleton architecture[3], autophagy maturation[4] and motoneuron specification[5]. With robust animal models in hands, and the identification of therapeutic candidates, the team aims to conduct a dual preclinical study for GAN: using pharmacological and gene therapy approaches. This translational project will benefit from the expertise of the Puccio team, which succeeded in developing gene therapy programs for Friedreich Ataxia[6-8].

Ref: 1. Lescouzères and Bomont. Front Physiol. (2020); 2. Bomont et al., Nat Genet (2000); 3. Mahammad et al., J Clin Invest (2013)-leading group: RD. Goldman; 4. Scrivo at al., Nat Commun (2019); 5. Arribat, Mysiak et al., J Clin Invest (2019); 6. Perdomini et al., Nat Med. (2014); Piguet et al., Mol Ther. (2018); Belbellaa et al., Hum Mol Genet. (2019).

Profiles. 3-year positions for 1 postdoctoral researcher (Bomont) and 2 engineers (Bomont & Puccio); will work in close collaboration with other members of the teams. Mandatory for all: curious, enthusiastic & team player; prior experience with mice. Postdoc expertise: neurobiology of the mouse with a strong knowledge in histopathology. Engineer 1 expertise: at the interface between zebrafish & mouse; zebrafish experience is an asset but not mandatory; skills required in histopathology. Engineer 2 expertise: skills in molecular biology techniques; immunofluorescence and histopathology are assets but not required. French speaking is NOT a requirement.

When/how to apply. Starting date ideally in mid 2021, but due to the pandemic, we will accommodate the selected candidates. Deadline for submission is fixed to 31th March 2021. Please send your application in a SINGLE 3 page-long pdf, including you CV, summary of your previous research experiences, and contact information of 2-3 references to: pascale.bomont@inserm.fr and helene.puccio@inserm.fr

Where. Bomont and Puccio teams are both at the NeuroMyoGene institute, located in the Rockefeller campus, in the highly dynamic and international city of Lyon, France. Lyon is considered as one of the most attractive metropoles in Europe, with a strong signature in biological science, architecture, & gastronomy (which we hope to enjoy soon again!)

☛ Link to Bomont webpage: https://www.inmg.fr/bomont/?lang=en
Link to Puccio webpage: https://www.inmg.fr/puccio/?lang=en

Institut NeuroMyoGène