

Post-doctoral position in INSERM UMR1011 in Lille, France

Project: “Role of Type 2 Innate Lymphoid Cells (ILC2) in skeletal muscle homeostasis”

We are seeking a highly motivated post-doctoral researcher with an interest in muscle physiology and immunology, as well as expertise in high-throughput methods.

This ANR-funded project aims to elucidate how the pathophysiological context of the skeletal muscle modulates the identity and function of ILC2s and decipher the ILC2-mediated mechanism regulating skeletal muscle fibrosis through the use of preclinical mouse models, cutting-edge techniques (Single-cell RNAseq, Bulk-RNAseq), and human muscle biopsies.

The applicant will join our dynamic research laboratory INSERM UMR1011 located in Lille (France) and headed by Pr. Bart Staels. Our research unit is part of the “Laboratory of Excellence” European Genomic Institute of Diabetes (EGID, <http://www.egid.fr>), INSERM, Institut Pasteur de Lille, CHU de Lille and Lille University, and attracts students from around the world by offering high level training in biomedical sciences. The unit develops multidisciplinary research at the interface of physiology, cell biology, biochemistry and medicine using cutting-edge innovative technologies. The successful applicant will work closely with Dr Yasmine Sebti within the team 5 led by Dr Hélène Duez, as well as with PhD students, engineers and collaborators. We offer a 1-year contract (renewable for up to two additional years), starting in March 2025 or upon mutual agreement.

Applicant profile:

- Required: PhD in a relevant field (muscle physiology or immunology) and expertise in animal experimentation (the applicant must have an agreement to work on live animals)
- Good experience with bioinformatic analysis of omics data and basic cellular and molecular techniques
- Excellent oral and written communication skills in english
- Autonomous, yet able to work in a team setting

Your responsibilities will include:

- Design, perform and analyze *in vivo* and *in vitro* experiments to understand the cellular cross-talk between ILC2, muscle stem cells, Fibro-adipogenic progenitors and other immune cells in different skeletal muscle pathophysiological contexts
- Bioinformatic/statistical analyses of -omics data
- Molecular and biochemical analysis of cells and tissues from genetically modified mice
- Supervision of trainees and students
- Preparation of scientific articles and presentation at local and international meetings

Your application: Applicants should send a CV with a publication list, a short summary of research achievements and mastered techniques, and contact information of references to:

Yasmine Sebti (yasmine.sebti@univ-lille.fr)