

CENTRE DE RECHERCHE EN MYOLOGIE - INSTITUT DE MYOLOGIE
G.H. Pitié-Salpêtrière, 47/83 boulevard de l'Hôpital - 75651 Paris Cedex 13 – France

Post-Doctoral Associate Position

We are pleased to invite applications for a 3-year Post-Doctoral Associate position to join Dr. Furling's team at the Center for Research in Myology (UMRS974, Institute of Myology, Paris), within the framework of our newly funded ANR project entitled "**Deciphering Progressive Muscle Dystrophy in DM1.**"

Project Overview

Myotonic Dystrophy Type 1 (DM1) is the most common form of adult muscular dystrophy, caused by the expansion of CTG repeats in the *DMPK* gene. This multisystemic disease affects various tissues, with a significant impact on skeletal muscle, leading to myotonia, progressive muscle atrophy, and weakness. Despite advances in understanding the disease, the mechanisms driving progressive muscle wasting in DM1 remain elusive.

Our research has previously identified a reduction in the proliferative capacity of muscle stem cells (MuSCs) in DM1 patients, alongside defective fusion and myogenic differentiation. The current ANR project will use new conditional DM1 mouse models to investigate the specific role of pathogenic RNA carrying expanded CUG repeats in muscle fibers and MuSCs, with the aim of uncovering the molecular and cellular drivers of muscle degeneration.

Key Responsibilities

- Design and conduct experiments to achieve the project's scientific goals.
- Analyze data, interpret results, and contribute to the broader understanding of DM1 pathogenesis.
- Prepare and present findings at internal meetings and international scientific conferences.
- Write and publish research articles in high-impact peer-reviewed journals.

Required Qualifications

- A *Ph.D.* in Cell Biology, Molecular Biology, Neuroscience, Genetics, or a related field.
- Expertise in muscle biology and skills in molecular and cellular biology.
- Experience with mouse models is highly desirable.
- Strong analytical, organizational, and communication skills.
- Ability to work independently and collaborate effectively within a multidisciplinary research team.

Salary: in accordance with INSERM guidelines.

Application Process

Interested candidates should submit the following:

- A cover letter detailing research interests and career goals.
- A detailed Curriculum Vitae (CV).
- Contact information for academic references.

Position Start Date: Mid 2025

Location: Center for Research in Myology – Institute of Myology, Paris, France

For more information about the lab and our research, please visit:

<https://recherche-myologie.fr/research/labs/furling-gourdon-lab/?lang=en>

or contact Denis Furling at denis.furling@sorbonne-universite.fr