

**Internship offer**  
**M2 Musculo-Skeletal system, Locomotion, Exercise (MuSkLE)**

**Title of the Internship**

Study of the role of a kinase in skeletal muscle homeostasis

**Laboratory**

INMG – PGNM (Faculté de Médecine Lyon-Est Rockefeller, 8 Avenue Rockefeller, 69008 Lyon)

<https://pgnm.inmg.fr>

**Research team**

<https://pgnm.inmg.fr/en/strappazon/>

<https://pgnm.inmg.fr/en/mounier/>

**Supervisor to contact**

Please send your CV and a covering letter to the following addresses:

Flavie Strappazon, [flavie.strappazon@univ-lyon1.fr](mailto:flavie.strappazon@univ-lyon1.fr)

Rémi Mounier, [remi.mounier@univ-lyon1.fr](mailto:remi.mounier@univ-lyon1.fr)

**Project description**

Skeletal striated muscle plays a central role in maintaining energy homeostasis and mobility. However, the molecular mechanisms involved in its maintenance and adaptation remain only partially understood. This project aims to characterize the role of a kinase in the regulation of the skeletal muscle homeostasis, combining *in vivo* approaches with cellular and molecular biology analyses. The expected results could contribute to a better understanding of the mechanisms involved in neuromuscular ageing.

**Internship objectives and Methodologies used**

The intern will play an active role in the development of the project and will be involved in:

- a transgenic mouse line maintenance,
- histological analyses of skeletal striated muscle,
- molecular and cellular biology analyses (immunofluorescence, Western blot, qPCR),
- analysis and interpretation of experimental results,
- scientific discussions and team meetings,
- drafting reports and presenting results.

**Skills required**

- Master's student in cell biology, molecular biology, physiology or a related field;
- Knowledge of cell and molecular biology;
- Experience in immunofluorescence, Western blot or qPCR would be an advantage;
- A passion for experimental research;
- The ability to work independently, scientific rigor and a team spirit;
- Scientific curiosity and analytical skills.

**Supervision and Environment**

The placement will take place in a dynamic and collaborative scientific environment at the NeuroMyoGène Institute, which is specialized in the study of the pathophysiology of neurons and muscles. The successful candidate will receive close supervision and training in the experimental methods used in muscle physiology and cell biology. The project will provide the opportunity to gain solid experience in translational biomedical research.

A PhD may be considered depending on the progress of the project and funding opportunities.