PhD position

An ANR funded PhD position, starting November 2021, is available in the MNCA (Muscle nucleus and cytoskeleton architecture) team at the NeuroMyoGène Institute (INMG) in Lyon, France, on the Control of muscle fibers functionality via ER remodeling and autophagy modulation.

The INMG Institute is dedicated to study the interplay between nervous and muscular systems from development to aging, under normal and pathological conditions. It benefits from the integration of cutting-edge fundamental research teams and renowned clinicians.

Our group, directed by Vincent Gache, has a long-standing interest in skeletal muscle formation and maintenance with a particular interest in myonuclei/organelles positioning in developing muscle fibers and its relation to diseases.

We are looking for a highly motivated, enthusiastic and interactive candidate with a Master degree, who is interested in applying his/her knowledge in molecular and cellular biology to understand how SH3KBP1 protein controls muscle fiber organization and functionality, related to its capacity to modulate ER architecture and autophagy (see reference below).

Prior experience in muscle model, autophagy pathway, imaging, cell culture and/or molecular /cellular biology is preferred but not mandatory. Necessary skills include organization, motivation, creativity and basic computer skills (word, powerpoint, graphs, statistics, image analysis). Scientific English, good writing and oral presentation skills are required. The salary for this position will be offered following the CNRS guideline.

Please submit from now to September 15th, curriculum vitae, Bachelor and Master's marks and ranks, statement of research interest and 1 or 2 reference letters to Carole Kretz-Remy, carole.kretz@univ-lyon1.fr and Vincent Gache, vincent.gache@univ-lyon1.fr. Please, indicate «PhD-ER application» in the subject item of your mail.

References:

- **SH3KBP1 scaffolds endoplasmic reticulum and controls skeletal myofibers architecture and integrity.** *Guiraud A, Christin E, Couturier N, Kretz-Remy C, Janin A, Ghasemizadeh A, Durieux AC, Arnould D, Romero NB, Bui MT, Buchman VL, Julien L, Bitoun M, Vincent Gache.* **(2020) BioXriv. https://www.biorxiv.org/content/10.1101/2020.05.04.076208v1.**