

Title: Transport and degradation of organelles in health and disease**Laboratory:** Aging and Muscle Metabolism Lab, University of Lausanne, Switzerland

We are looking for a brilliant and motivated undergraduate student, with biological background, to perform a final internship at the last University level (Master-2 or equivalent). Our lab currently investigates novel proteins and pathways that play a role in muscle metabolism and human neuromuscular disorders. We notably focus our research on the regulation of mitochondria and lipid droplets. These organelles are key players in metabolism and associated dysfunctions. Finely tuned dynamic modulations adapt the number of these organelles, as well as their function, location and architecture in response to external stimuli. Any alteration of this dynamic impairs the functioning of neuromuscular system, subsequently inducing severe disorders.

The proposed project will build on findings that we have made on specific proteins and pathways that could play a role not only in aging, but also in human diseases such as myopathies and genetic disorders. We are generating zebrafish models to characterize the functions of these candidates on neuromuscular structures and metabolism. It will entail state of the art methodology based on multidisciplinary approaches, including genetics, molecular biology, cellular biology, clinical approaches and *in vivo* models.

Job information:

Expected start date in position: as soon as possible

Workplace : University of Lausanne, Department of Physiology

Language: French, English

Remuneration: No

Contact:

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Please send a CV, a cover letter and recommendation letters if possible to the contact above.