PhD student position available from October 2021

We aim to recruit a **PhD student**. Position is funded by ANR grant and is open with a flexible start date until Jan 2022. Our Lab is located at the IGFL ([http://igfl.ens-lyon.fr/](http://igfl.ens-lyon.fr/)) in the École Normale Supérieure de Lyon. The IGFL brings together several laboratories at the forefront of science working at the interface between developmental biology, physiology and evolution.

**Bridging the gap between development and maintenance of the locomotor system: from genes to function**

Locomotion is a stereotyped behavior used by animals to find food, mates or to escape from predators. As Michel De Montaigne said: ‘*life is only movement*’. The rhythmic pattern of locomotion is directly linked to the sophisticated architecture of the locomotor system. Its architecture is built during development and maintained during adulthood. The long-term project of my team is to understand how locomotor systems acquire and maintain their specific architecture.

Our multiscale project encompasses the fields of molecular, cellular and developmental biology and physiology. Our project integrates experiments from molecules to cells and from system architecture to behavior. Our favorite animal model is Drosophila melanogaster.

The lab is organized around 3 objectives:

**Objective 1: Development of Motoneurons.** We want to know how a stem cell generate motoneurons of different morphologies during development.

**Objective 2: Development of muscle innervation.** We want to understand how two tissues communicate during development to construct a system.

**Objective 3: Development and Maintenance of muscle innervation.** We want to know if the gene networks necessary for the establishment and maintenance of muscle innervation are the same.

If you want to learn molecular biology, transgenesis, Fly genetic, smFISH, transcriptomic, image analysis and behavior please contact us! Please submit a CV, names of at least 2 referees, a statement of past achievements and future research interest to Jonathan Enriquez: [jonathan.enriquez@ens-lyon.fr](mailto:jonathan.enriquez@ens-lyon.fr) and Anne Laurençon: [anne.laurencon@ens-lyon.fr](mailto:anne.laurencon@ens-lyon.fr). Please use the email subject “PhD student”.