
ERC-funded postdoctoral position in Neuroscience Charrier lab - Ecole Normale Supérieure, Paris.

The synapse is a multimolecular nanomachine, which transfers, integrates and stores information in brain circuits. Small changes in the molecular organization of synapses can lead to profound modifications of behavioral and cognitive abilities, as frequently observed in neurodevelopmental and psychiatric disorders. Small changes also appeared during human evolution. Although poorly characterized, they underlie distinctive developmental and physiological properties of human neurons that are at the core of what makes us humans. This project will investigate the regulation of synaptic development or plasticity by human-specific genes and molecular pathways linked to human evolution. The project will employ a multidisciplinary approach based on sparse *in vivo* manipulations in intact brain circuits, high-resolution and super-resolution microscopy, electrophysiology and omics approaches in mouse models and human neurons derived from pluripotent stem cells. The objective is to uncover fundamental mechanisms that are common to all mammals and better understand what makes human neurons special.

We are located at the Ecole Normale Supérieure in Paris, France (IBENS, Inserm, CNRS, PSL Research University). The institute provides an exceptional scientific environment and a vibrant international community for students and post-docs in the heart of Paris.

Lab website: <https://www.ibens.ens.fr/spip.php?rubrique93&lang=en>

We are seeking a highly motivated, independent and creative individual to join the team. The candidate should have a PhD in neuroscience or cellular/developmental biology. Expertise in molecular and cellular biology, electrophysiology or microscopy will be appreciated.

Start date: early 2022.

To apply, please contact Cécile Charrier at cecile.charrier@ens.psl.eu with your CV, a cover letter explaining your motivations and previous work, and three references for recommendation.

