



UNIVERSITÉ
PARIS
DESCARTES



Postdoctoral position in neuron cell biology - Hanus lab Institute of Psychiatry and Neurosciences of Paris (Inserm 1266)

Neurons are the largest and most complex cells of the body and heavily rely on local protein synthesis to modify specific synapses during learning and memory formation. Our recent work indicates that the local production of membrane proteins requires the use of a previously unrecognized trafficking pathway that bypasses the Golgi apparatus. This unconventional secretory pathway in turn enables neurons to regulate the N-glycosylation and hence the function of key surface membrane proteins.

We are looking for a driven scientist to study how the unconventional trafficking and resulting atypical N-glycosylation of neurotransmitter receptors are regulated during neuronal development and synaptic plasticity. To do so, the fellow will take advantage of the cast of protein and sugar CLICK chemistry, glycoproteomics, single molecule imaging and high-content photobleaching techniques that we use in the lab.

Our team is located at the IPNP, offering an excellent scientific environment and onsite access to cutting edge biochemical and microscopy equipment essential for the success of our project.

Applicants should have a strong experience in live cell imaging or protein biochemistry. Prior experience in any of the following topics would be a plus: mouse genetics, genome editing, stereotaxic injections, tissue/organ live imaging, membrane trafficking, electrophysiology.

The candidate will be hired as soon as possible on a one-year contract and will be encouraged to apply to post-doctoral fellowships to extend its participation to the project.

Motivated applicants should send their CV, details of 2 to 3 referees and a cover letter to cyril.hanus@inserm.fr