

Postdoc position in Neuroscience Ecole Normale Supérieure (Paris)

Team: “Glutamate Receptors and Excitatory Synapses” (<http://www.biologie.ens.fr/neuronr/>)

Head : Pierre PAOLETTI

Location: Institut de Biologie de l’Ecole Normale Supérieure (IBENS), Paris, France

Start date: Early 2017

We seek to hire one highly motivated postdoctoral scientist to investigate the *in vivo* regulation of synaptic and extrasynaptic NMDA receptors by the microenvironment, using a combination of advanced methodologies including electrophysiology, optogenetics, optopharmacology, two-photon uncaging and genetically-modified mice.

The candidate should have a solid expertise in cellular electrophysiology (patch-clamp in brain slices). The candidate should also show strong interest in cellular neuroscience with special focus on synaptic transmission and plasticity. A background in molecular biology and receptor pharmacology and signalling would be a plus.

The project is part of a recently awarded **ERC Advanced Grant** and is to be developed in the team of Pierre Paoletti at the Institut de Biologie de l’ENS (IBENS) in Paris. This team has international recognition for its work on the structure, function and regulation of NMDA type glutamate receptors. The position has 3 years of initial funding, with the possibility for extension.

IBENS is a leading biology institute in Europe that gathers several world-class researchers from diverse fields including genetics and genomics, developmental biology, systems biology and neuroscience. IBENS is located in the center of Paris (Latin Quarter) in a highly stimulating and dynamic environment, close to several other top research institutions (Institut Curie, Collège de France, ESPCI Paris Tech...).

Candidates should send a CV and a brief statement of research experience to Pierre Paoletti: pierre.paoletti@ens.fr

Selection of publications from the host team:

- Sensi et al. (2009) **Nature Reviews Neuroscience**, 10, 780-791.
- Gielen et al. (2009) **Nature**, 459, 703-707.
- Nozaki et al. (2011) **Nature Neuroscience**, 14, 1017-1022.
- Mony et al. (2011) **EMBO Journal**, 30, 3134-3146.
- Zhu et al. (2013) **Nature Structural & Molecular Biology**, 20(4), 477-485
- Paoletti et al. (2013) **Nature Reviews Neuroscience**, 14(6), 383-400.
- Zhu et al. (2014) **PNAS (USA)**, 111, 6081-6086.
- Stroebel et al. (2014) **Journal of Neuroscience**, 34(50), 16630-36
- Vergnano et al. (2014) **Neuron**, 82(5), 1101-1114.
- Zhu & Paoletti (2015) **Current Opinion in Pharmacology**, 20, 14-23.
- Hackos et al. (2016) **Neuron**, 89(5), 983-99.