

Bordeaux, April 2018

## **Available post-doctoral position in synaptic physiology funded by ERC**

We are seeking to recruit as soon as possible a post-doctoral fellow expert in slice electrophysiology and imaging to study AMPA receptor trafficking and synaptic function with innovative molecular and imaging approaches.

### **The project aims at studying the molecular and mechanistic basis of synaptic plasticity in hippocampal brain slices and in vivo.**

Building on the past work of the Choquet group demonstrating the key role of AMPA receptor surface trafficking in synaptic function, we have devised a variety of innovative molecular tools to control with a high spatio-temporal resolution various aspects of AMPA receptor traffic. In this project, we will use these optogenetic tools to analyse the specific role of various AMPA receptor trafficking pathways in short and long term synaptic plasticity, both in hippocampal brain slices and in vivo. We will also use high end imaging approaches to image AMPA receptor traffic in brain slices with unprecedented precision and resolution.

Altogether, this project will shine new light on the molecular mechanism of synaptic plasticity and will be linked to behavioural studies of cognitive functions using the same tools.

The position will be financed by an ERC grant from D. Choquet for up to five years.

For this position, we are seeking highly motivated individuals, with a proven track record of success, if possible immediately after their PhD, and in any case no more than four years after their PhD. The projects will be conducted in a stimulating and highly interdisciplinary and international environment in a newly established research building, a part of the Bordeaux Neurocampus project (Bordeaux, France).

Please send CV and two references to:

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Daniel Choquet

