Available post-doctoral position in synaptic plasticity funded by ERC

We are seeking to recruit post-doctoral fellows expert in slice electrophysiology and imaging to study innovative aspects of synaptic plasticity. We have developed unique tools to monitor and modify AMPA receptor trafficking in vivo and would like now to apply them to study synaptic function with electrophysiological, molecular and imaging approaches. These approaches will be combined with behavioral assessment of memory function to understand the link between synaptic plasticity and memory storage, consolidation and retrieval.

We have developed innovative tools to control with light the accumulation or disappearance of AMPAR from synapses during LTP and LTD. In this project, we will use these optogenetic tools to analyze the role of synaptic plasticity in information processing by the brain. Altogether, this project will shine new light on the molecular mechanism of synaptic plasticity and will be linked to behavioral 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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