

OPEN POSITION: POSTDOCTORAL FELLOW, NEUROSCIENCE

*Laboratory of Cognitive Neuroscience, Aix-Marseille University and French National Center for Scientific Research (CNRS), Marseille, France
Behavioural Neuroscience, Spatial Cognition, Electrophysiology, Optogenetics, Pharmacogenetics.*

A 2.5 years long postdoctoral position is immediately available in the SPATIAL COGNITION team at the Laboratory of Cognitive Neuroscience (<https://lnc.univ-amu.fr/en>) to work on the ANR-funded CONECPSACE (led by Dr Pierre-Yves Jacob). The Laboratory of Cognitive Neuroscience is housed within Aix-Marseille University located on Saint-Charles Campus in Marseille, in the center of Marseille.

The main objective of the project is to **unravel the nature of the spatial representation when animals navigate in complex environments made of connected rooms**. Experiments will consist in performing multi-site recordings in the thalamo-retrosplenial-entorhinal-hippocampal network, in animals exploring complex environments. The candidate will use a wireless system to simultaneously record head direction cells, grid cells and place cells in freely moving rats. Neural recordings will be combined with optogenetic or pharmacogenetic (DREADDS) perturbations to investigate the interactions between the different cell populations.

Candidates should have in-depth training in different aspects of the integrated research, at both the conceptual and technical levels (stereotaxic surgery, single cell and LFP recording in freely moving rats, behavioural analysis). Skills in anatomical tracing and/or optogenetics/DREADDS techniques in behaving rodents would be appreciated.

Send via email your application including:

1. CV
2. letter stating research interests
3. certificates of university degrees
4. two letters of reference.

All information or questions regarding the position should be submitted electronically to pierre-yves.jacob@univ-amu.fr with the subject line "Postdoctoral Position: CONNECSACE PROJECT".

