barcelonaβeta
BRAIN RESEARCH CENTER

Postdoc Position for Neural Mechanisms of Memory Research Group (NEMO), Barcelona, Spain

About the employer:

The Barcelonaβeta Brain Research Center (www.barcelonabeta.org) is a new research center, constituted by the Pasqual Maragall Foundation, with the participation of the Pompeu Fabra University. Research focuses on Memory and Alzheimer's disease. Barcelonaβeta is located in the Campus Ciutadella of the Pompeu Fabra University, the building contains excellent technical facilities, including a research-dedicated 3T MR scanner, EEG and Eye Tracker labs.

Barcelonaβeta is a research center affiliated to Pompeu Fabra University and is also part of the Barcelona Biomedical Research Park (PRBB), a large research facility that hosts other seven different research institutions related to biomedical research, including the Center for Genomic Regulation (CRG), the Hospital del Mar Medical Research Institute (IMIM), the Department of Experimental and Health Sciences of the Pompeu Fabra University (CEXS-UPF), the Institute of Evolutionary Biology (IBE CSIC-UPF), the Barcelona Institute of Global Health (ISGlobal) and the Barcelona site of the European Molecular Biology Laboratory (EMBL), among others, in a multidisciplinary, collaborative and stimulating international environment in close contact with a clinical setting, thus conducive to translational research.

Job Summary:

The Barcelonaßeta Brain Research Center (BBRC) offers a fully funded postdoc position at the NEMO research group headed by Professor Rodrigo Quian Quiroga. The group is part of a new Research Program on Memory, complementary to ongoing research at BBRC dealing with the Prevention of Alzheimer Disease. The NEMO group is associated to the epilepsy group headed by Dr. Gerardo Conesa at Hospital del Mar, a health center close to BBRC.

Research will involve the study single cell recordings in humans. These recordings are performed in epileptic patients for curative surgery. In particular, the project will investigate concept cells (a.k.a. Jennifer Aniston neurons) – that means, neurons in the hippocampus and surrounding areas that selectively fire to specific concepts, like different pictures and the written or spoken name of a particular person (e.g. Quian Quiroga et al, Nature 2005; Quian Quiroga Nature Reviews Neuroscience 2012), which are involved in declarative memory functions. The successful candidate will contribute to performing recordings with patients at the Hospital del Mar and the analysis of the data to investigate the role of these neurons in memory formation, consolidation, long-term coding and recall.

The candidate may be also involved in research, complementary to the one with single cell recordings, that uses other facilities at BBRC (fMRI, simultaneous EEG and Eye-tracking recordings, mobile Eye Trackers), or studies involving populations of subjects prone to develop Alzheimer.

Required Qualifications:

- PhD
- Excellent communication and writing skills;
- Very good quantitative skills (data processing, and programing in Matlab)
- Ability to work independently and work collaboratively.
- Ideally, a strong background in neuroscience and experience with neurophysiology recordings.

We Offer:

- A postdoctoral position scheduled initially for two years (open to 2 years renewal).
- Salary will depend on experience.
- Start date will be in October 2017.

Application process:

To apply, please submit: 1) Cover letter describing research interests and relevant background; 2) CV with list of publications. Shortlisted candidates will be asked to provide the names of three individuals who could provide reference letters.

All files or inquiries should be submitted electronically to: rh@barcelonabeta.org

The closing date for the applications is Monday **25th August 2017**.

In compliance with the LOPD (Data Protection Act), we inform you that your personal data will be part of a file which Pasqual Maragall Foundation is responsible for, in order to manage the selection process for the job offer you have applied for. Once the selection process is complete, your data will be erased.

You have the right to exercise the rights of access, rectification, cancellation and opposition recognized in Law 15/1999, to be addressed to the Pasqual Maragall Foundation: Wellington Street 30, 08005 Barcelona