



Opportunity # GN000011

Postdoctoral position in hippocampal cellular neuroscience

Position: Post-Doctoral

Deadline: 31 December 2022

City: Buda Pest

Country: Hungary

Institution: Institute of External Medicine

Description:

Postdoctoral fellow applications are being accepted for Dr. Judit Makara's lab at the Institute of Experimental Medicine in Budapest, Hungary. The goal of the lab's research is to comprehend how cellular and circuit mechanisms enable the hippocampal network to carry out various computations during navigation and learning. Specific areas of interest include synaptic integration, dendritic processing, input-output operations, single-cell and population activity patterns in hippocampal neurons. In close cooperation with computational neuroscientists at the Institute, we use a variety of in vitro and in vivo experimental procedures, including as patch clamp electrophysiology, two-photon imaging, and optical stimulation techniques, paired with computational analysis.

The chosen candidate will use head-fixed mice and in vivo two-photon imaging to examine how the activity of various neuron types and their subcellular compartments in the hippocampus circuitry affect learning and memory functions.

Candidates must hold a Ph.D. in neuroscience or a closely related subject, and should have programming, rodent behavioural paradigms, and fluorescence microscopy techniques experience. Candidates who are driven, creative, and team players who have the capacity to work independently are what we are searching for.

The Institute of Experimental Medicine, which is well-equipped with cutting-edge core equipment and offers a very stimulating and collaborative interdisciplinary research environment, is widely regarded as

a premier neuroscience centre in Europe. Budapest, one of the most dynamic and culturally diverse cities in Europe, is home to the Institute.

The job is available now, with an initial one-year appointment that can be extended for three years using current funding. It is also possible to extend the contract in the future. Salary is competitive and commensurate with abilities and level of experience. Applications must contain a CV, a brief statement of motivation, and the names and email addresses of two references. Please contact Judit Makara (makara.judit@koki.hu) with any application or enquiry.

Contact Details

Name: Judit Makara

Email: makara.judit@koki.hu

URL: <http://koki.hu/>

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