

Neuroscience Research Center
Charité - Universitätsmedizin Berlin
Berlin, Germany

In Vivo

Postdoctoral research position

A position at the Postdoctoral level is available in the group of J. Kremkow at the Charité-Universitätsmedizin Berlin, Germany. The recently established Emmy-Noether group uses both experimental and computational approaches to investigate the organization and function of neuronal circuits (1-3).

The aim of the project is studying the principles underlying the functional organization of the thalamo-cortical system. The work will focus on the visual system (Kremkow et al. 2014) and involves in vivo experiments in awake mice (Zhao, Kremkow and Poulet 2016) using cutting edge multi-electrode recordings techniques, e.g. Neuropixels probes (4). The goal is to better understand the functional architecture of the visual thalamo-cortical circuits on the cell-type specific level, including our recent finding showing a central role of darks in the organization of visual cortex (Kremkow et al. 2016).

We are seeking a highly-motivated candidate who is interested in working in a collaborative multidisciplinary and international environment. Candidates with experience in in vivo electrophysiology in mice and good programming skills, e.g. in python, are highly encouraged to apply. The position will be financed by the Emmy-Noether grant from J. Kremkow and is available initially for ~3 years (first grant cycle ends October 2020) with a possible extension.

Berlin is a scientific hub for neuroscience and the Kremkow lab is located at the heart of this stimulating and multidisciplinary research environment. The group is located at the Neuroscience Research Center of the Charité-Universitätsmedizin Berlin and a member of the Bernstein Center for Computational Neuroscience Berlin (www.bccn-berlin.de) and the Einstein Center for Neuroscience Berlin (www.ecn-berlin.de). For more information about the group: www.lab.kremkow.de

Applications will be considered until the position is filled and should contain a statement about research experience and career goals, a CV and 2 references letters. Please send your application with the subject "InVivo-Emmy-Noether" as one PDF document to: jens.kremkow@charite.de

References:

1. Kremkow et al. (2016) *Nature*, 533(7601), 52–57.
2. Zhao, Kremkow and Poulet (2016) *Cell Reports*, 15(11), 2387–2399.
3. Kremkow et al. (2014) *PNAS*, 111(8), 3170–3175.
4. Jun et al. (2017) *Nature*, 551(7679), 232-236