



## PhD Position in Cellular Neurophysiology

Applications are invited for a PhD position at Department of Biology of the Heinrich Heine University (HHU) Duesseldorf.

The project is based on a collaboration between the Institute of Neurobiology (<https://www.neurobiologie.hhu.de/>; head: Prof. Dr. C. R. Rose) and the Institute of Molecular and Cellular Physiology (IBI-1) of the Forschungszentrum Jülich ([https://www.fz-juelich.de/ibi/ibi-1/DE/Home/home\\_node.html](https://www.fz-juelich.de/ibi/ibi-1/DE/Home/home_node.html); head: Prof. Dr. C. Fahlke).

The goal is to understand the regulation of intracellular Na<sup>+</sup> in brain cells. To this end, fluorescence-based microscopy (intensity-based imaging, FLIM) as well as electrophysiological techniques (whole-cell patch-clamp) shall be employed using different preparations (cell culture, acute brain slices). Molecular tools will be used to modify expression of specific proteins while mathematical models will help in understanding the function and direction of membrane transporters involved.

The position is available from Jan 1<sup>st</sup>, 2021 on and is funded for three years. We are looking for a highly motivated neuroscientist, able to work in a team as well as independently, ideally with experience in patch-clamp and/or dynamic fluorescence imaging. We expect excellent command of English and strong work ethics. German speaking candidates are especially encouraged to apply as assistance in teaching courses in Neurobiology at the HHU (2 hours/week) is mandatory.

For application, please send a single *pdf*-file including a CV, a description of academic education (including transcripts of records) and research experience, a letter of motivation, and names and contact information of two possible referees by e-mail to:

*Prof. Dr. Christine R. Rose*  
*Institute of Neurobiology*  
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**Düsseldorf, Aug. 28, 2020**

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