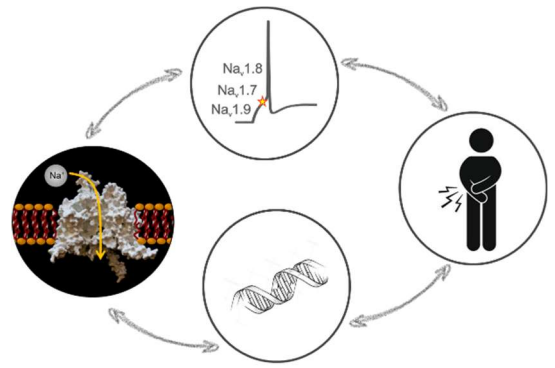


The **Neurophysiology group** at the Institute of **Physiology of RWTH Aachen University** is looking for a

## Postdoctoral Researcher (m/f/d)

**Biophysics, Biology, Physics, Molecular Medicine, Informatics, Biotechnology, Pharmacy or similar**

to join our dynamic, interdisciplinary team for electrophysiological and computer modelling studies of the role of sodium channels in human pain.



### Your responsibilities

- Biophysical characterization of voltage-gated ion channels, esp. sodium channels, and of cellular excitability via **patch-clamp** and multi-electrode array (MEA) recordings.
- Structural **3D computer modelling** of sodium channels and their associated subunits, molecular dynamics, docking and homology modelling.
- Teaching physiology practicals to German medical students.

### Your profile

- Highly motivated scientist holding a PhD in the field of Life-Sciences or Natural Sciences.
- Strong interest in electrophysiology, ion channel gating, cellular excitability and patch-clamp/MEA data analysis. Prior patch-clamp experience is highly desirable.
- Strong interest in 3D computer modelling of ion channels and molecular dynamics. Prior *in silico* modelling of ion channel structures is desirable.
- Problem-solving competence, writing skills, commitment and good communication skills in English. Basic knowledge of German.

### Our offer

We offer a dynamic, active, supportive and interdisciplinary team working on ion channels and pain using highly translational approaches. The Institute of Physiology at the RWTH Aachen University offers excellent experimental equipment to study ion channels by electrophysiological and molecular-biology techniques. Access to computing time on the JURECA supercomputer at Forschungszentrum Jülich is possible. Apart from using heterologous expression systems, we utilize human iPSC-derived sensory neurons, to study pain causing mutations in patient derived human cells.

The position is open starting from 1<sup>st</sup> of April 2020 and compensation will be according to German TV-L E13 (100%) for three years with option of extension. The RWTH Aachen University is certified as a family-friendly university and offers a dual career program for partner hiring. We particularly welcome and encourage applications from women, disabled people and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.

Please submit your enquiries and application until **2020 February 29<sup>th</sup>** (including a letter of motivation, CV, names of at least two persons to be contacted as references, and examination results as one pdf file) to Prof. Dr. Angelika Lampert, Institute of Physiology, RWTH Aachen University, 52074 Aachen, Germany, E-Mail: [alampert@ukaachen.de](mailto:alampert@ukaachen.de).