



PhD Position_ Center of Molecular Medicine and Integrative Physiology, Homburg

The Niemeyer lab (Center of Molecular Medicine and Integrative Physiology in Homburg, Germany) is announcing an open opportunity for a PhD position. Research in the Niemeyer lab focusses on the physiological and pathophysiological role of Calcium signalling in a number of model systems (<https://pubmed.ncbi.nlm.nih.gov/?term=niemeyer+ba>) and is funded by several DFG grants. Dysregulation of internal Ca²⁺ homeostasis leads to a number of pathologies. Recent publications describe the identification of several novel regulator variants of Calcium Entry into cells and future research entails understanding their role in health and disease. The lab offers a wide variety of techniques and expertise, ranging from molecular biology, CRISPR/Cas9 technology, biochemistry, FACS, electrophysiology to high end microscopy (Confocal, TIRF, light sheet), an international and highly diverse research environment and the opportunity to present results at international meetings.

To support new research towards understanding both system communication as well as molecular mechanisms underlying altered synaptic transmission in a splice-deficient mouse model, we are seeking motivated candidates that share enthusiasm for science and for diving deep into biological problems.

Job Requirements and responsibilities

- Conducting experiments independently after an initial teaching period.
- Literature research, data analysis and presentation in regular internal group meetings as well as in regular meetings of research consortia/scientific meetings.
- Actively participating in design of experiments and adjusting project plans according to obtained results.
- Standard good practice in the lab and maintenance of lab equipment.
- Data management
- Participation in publication of data in national and international meetings and preparation of project-related manuscripts.
- Soft skill courses (data management, languages, presentation, etc) will be available.

Required academic qualification:

Applicants should have a Master's degree (MSc) or an equivalent in biology, neuroscience, physiology, pharmacy or closely related disciplines.

Good to very good command of English language.

Preferably, Applicants should have experience in:

- standard molecular biology techniques.
 - sterile cell culture practice.
 - Have basic to good knowledge about the physiology of brain, heart or immune system. Applicants with more specialized previous experience neuronal cell culture and related methods will be preferred.
 - statistical evaluation of data (software)
 - Critically analysing data and considering necessary controls for validation experiments.
 - Actively participate in scientific discussions.
 - standard data and text editing software (Word, Excel, Powerpoint etc)
- **What we can offer:**
- Work on relevant state-of-the-art projects in an exciting and stimulating environment with close clinical collaborations.
 - Guidance and training to become an independent scientist or applicant to a variety of non-academic jobs.



- Benefits from established collaborations both nationally and internationally
- Integration into existing graduate school programmes that offer tailored interdisciplinary training, scientific and social activities and a strong mentorship for future career development
- Access to state-of-the-art microscopy (TIRF, FRET, Confocal) with the necessary training
- Hands-on experience with cutting edge molecular biology approaches such as CRISPR-Cas9 mediated gene editing.
- A broad spectrum of biochemical and optical methods for studying protein-protein interaction.
- Intensive mentoring and training while allowing room for creativity and independent work.

How to apply?

We are looking forward to receiving your written application by **15.10.2022**. Applications should include your C.V., motivation letter and copies of your certificates. Including recommendation letters or suggested references is encouraged. Please send your applications to: barbara.niemeyer@uks.eu

