PhD student position available at the University of Tübingen – Hertie Institute for Clinical Brain Research

*In vivo* and *in vitro* analysis of the pathophysiological mechanisms underlying a subtype of hemiplegic migraine

We are looking for a motivated and highly skilled PhD (TV-L 13, 65%) candidate for a national research network advancing the knowledge about recognizing and treating rare neurological ion channel and transporter disorders. We offer a position for 3 years, starting as soon as possible.

Our research groups have a long-standing experience in studying genetic and pathophysiological mechanisms underlying neuronal hyperexcitability and network dysfunction. We identified and functionally characterized several new epilepsy genes on the single cell and network level (e.g. Schubert et al. *Nat Genet* 2014; Syrbe, Hedrich et al. *Nat Genet* 2015; Hedrich et al. *J Neurosci* 2014; Wolf et al. *Brain* 2017).

**The Project:**

With the project, we aim to gain a comprehensive understanding how a genetically caused dysfunction contributes to the pathophysiology of a novel subtype of hemiplegic migraine. Therefore, we will analyse the functional consequences of a genetic variant altering glutamate homeostasis in a knock-in mouse model *in vivo* and *in vitro*. We will use a variety of techniques including single cell and network electrophysiology in acute brain slices and EEG –recordings.

**Requirements:**

We are looking for a highly motivated and qualified researcher interested in the mechanisms of hemiplegic migraine. The position requires a Master in Biology / Medicine or a related discipline (e.g. molecular biology, molecular medicine, physics), ideally with a focus on neuroscience. Skills in molecular biology and electrophysiology (patch clamp, EEG recordings) are highly encouraged. More details can be found under [https://www.hih-tuebingen.de/forschung/neurologie-mit-schwerpunkt-epileptologie/](https://www.hih-tuebingen.de/forschung/neurologie-mit-schwerpunkt-epileptologie/).

Women and people with disabilities are given preference for the same suitability.

**How to apply:**

Tübingen, 25.03.2019
The position will be open until we find appropriate candidates. Please send your application including a letter of motivation, CV, list of publications, copies of certificates and the names of at least two references as a single pdf file to:

Dr. Ulrike Hedrich  
Dept. of Neurology and Epileptology  
Hertie Institute for Clinical Brain Research  
Otfried-Mueller-Str. 27  
72076 Tuebingen  
Germany  
E-mail: ulrike.hedrich@uni-tuebingen.de

We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States) in addition to all the customary benefits granted to employees working in Public Services. Severely handicapped persons with equal qualifications are given preferential consideration. The University of Tübingen is anxious to increase its quota of female scientific staff, and therefore emphatically requests women to apply for this position. The Administration of the University Hospital is responsible for all employment matters. Personnel appointments will be made pursuant to the fundamental stipulations of the legal statutes for universities in Germany. Interview expenses are not covered.