

PhD Position (f/div/m) -Mechanosensitive calcium channels as targeted therapy for Cerebral Cavernous Malformations

Position: PhD Student 75%

Application Deadline: 20 March 2023

Employment Start Date: 1 May 2023

Contract Length: 3 years

City: Hannover

Country: Germany

Institution: International Neuroscience Institute (INI) Hannover GmbH

Department: Neurosurgery

Job Description: The Department of Neurosurgery at International Neuroscience Institute Hannover is looking to hire a PhD position (75% position, TV-L E13) starting from 01.05.2023. This project is a part of the BMBF funded research project, „Preclinical study targeting mechanosensitive calcium channels for Cerebral Cavernous Malformations therapy and early diagnosis“.

Cerebral Cavernous Malformations (CCM), a cerebrovascular disease affecting small vessels in 1/200 individuals, are stacks of dilated and haemorrhagic venous capillaries formed by a unique layer of poorly joined endothelial cells. Currently, surgical resection is not always possible and there is no therapeutic alternative. Recent work from our group have identified candidate non-coding RNAs involved in the CCM disease (*Kar et al., 2017; Kar et al., 2018; Kar et al., 2019*). The PhD student will work with a multidisciplinary team of experts from Germany, France, Belgium and Italy to elucidate the molecular events at the onset of CCM and innovative therapeutic strategies. The major task of the PhD student will be studying the expression of mechanosensitive calcium channels and microRNAs using tissue and blood samples from CCM patients and establish their role as early onset biomarkers in prognosis of the disease.

Your profile:

- Master's degree in Neuroscience
- Experience in working with cell culture and molecular biology techniques
- Organized, self-motivated, independent, with problem-solving skills
- Good command of written and spoken German and English language
- Experience and proven track record in the field of molecular or cellular neuroscience
- Teamworking and being an active part of an international collaborative research environment.

What we offer:

We offer an attractive, challenging and responsible job in a dedicated, efficient and interdisciplinary environment characterized by exciting research projects and scientific collaborations. The PhD student will have the opportunity to participate in the PhD programme in neuroscience in Hannover with a three year funding. Payment and benefits are based on the German Public Service Payscale (TV-L E13 75%) guidelines. As an equal opportunity employer, the INI GmbH Hannover strives for diversity and gender equality and welcomes applications from all backgrounds.

If we caught your interest, please submit your complete application including your CV, a cover letter (stating background and motivation), credentials and contact addresses of two references as a single pdf file until 20.03.2023 via E-Mail to: *INI - International Neuroscience Institute® Hannover GmbH*
Dr. Souvik Kar, Project Leader (+49 51127092714). E-Mail: kar@ini-hannover.de