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Doctoral Research Position – „Dysregulation of the Wnt/ β -catenin signaling pathway in brain endothelial cells in epilepsy and its therapeutic potential“

Description: Starting from January 2018, the Liebner Laboratory at the Goethe University Clinic Frankfurt is seeking a qualified candidate for a doctoral position for the LOEWE-funded project that is embedded in the LOEWE-CePTER (TP8) entitled “Dysregulation of Wnt/ β -catenin signaling in brain endothelial cells in epilepsy and its therapeutic potential”.

This project is focused on the impairment and modulation of blood-brain barrier function in epilepsy and includes work with transgenic mouse models as well as fresh and frozen human brain tissue (collaboration with TP3, PD Dr. Thomas. Freiman). The project involves molecular analysis of brain capillaries isolated from animal models and human brain tissue in combination with state-of-the-art imaging techniques (confocal microscopy, tissue clearing utilising iDISCO, light sheet microscopy), as well as next-generation sequencing and bioinformatics. The candidate will work with the PI, lab technician, postdoctoral researchers, graduate and undergraduate students. The candidate will be part of a motivated research team, work in a highly-productive scientific environment, use state-of-the-art equipment, and employ innovative approaches to generate high quality data that the candidate is expected to communicate with the research community. The candidate will receive comprehensive mentoring, has to be highly motivated, enthusiastic, committed, and have an outstanding work ethic. The Liebner Laboratory fosters interdisciplinary research and is dedicated to explore blood-brain barrier function with the goal to improve treatment of brain disorders including epilepsy.

Requirements: The candidate is expected to have a masters degree in an area relevant to neuro- or vascular-science. Preference will be given to individuals with experience in blood-brain barrier research and/or experience and/or a strong interest in image analysis and bioinformatics. Prior experience with mouse colonies, imaging techniques (confocal microscopy, multi-photon imaging) and standard molecular techniques (Western blotting, ELISA, IHC, IP), and or electro-physiology is desirable. The candidate must have excellent interpersonal, organisational, verbal and written communication skills and appropriate experience.

Contact: Interested candidates should send an email that includes a cover letter with a brief statement of research experience and interests, a curriculum vitae, and a reference letters directly to Dr. Stefan Liebner (stefan.liebner@kgu.de).