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The Institute of Applied Physiology at the Medical Faculty of Ulm University, Germany offers

A master-thesis & PhD position in Molecular & Cellular Neuroscience

We offer an interdisciplinary research team with international collaborations, integrated in an exciting scientific environment **at the University of Ulm & the University of Oxford**. In a **Wellcome Trust** funded project, together with the Oxford Parkinson's disease Centre (**OPDC**), as well as within the DFG-funded **SFB-1506**, we analyse cell-specific mechanisms of differential neuronal vulnerability in **Aging and in Parkinson's disease**. We focus on the role of ion channels & receptors, and activity-related Ca^{2+} signalling.

Our **methods deployed** include state-of-the-art *in vivo* and *ex vivo* neuroscience techniques like AI-based image analysis, electrophysiology, targeted CRISPR/Cas9, Seahorse, and single cell transcriptomics approaches (see also: <https://www.uni-ulm.de/med/angewphys/>).

As start-date, beginning of 2025 is envisioned, but a prior or later start is possible. The Master-project can lead to a respective PhD-project and position (funded according to the German TV-L system, and can be embedded within the **International Graduate school** "Molecular Medicine" at Um University, IGradU).

Applicants will hold an **outstanding BSc degree** or equivalent in neuroscience, life sciences, Biochemistry, or a related subject, and are fluent in English.

Experience in neuroscience as well as in molecular biology, bioinformatics, imaging, and/or electrophysiological techniques are desired and of advantage. Successful applicants are self-motivated team workers and enthusiastic about science, with strong communication skills and diligent work ethics.

If you are interested, please send in your full application, by mail or by e-mail (**as one merged PDF-file only**), containing a cover letter, statement of research interest / motivation (max. 1 page), CV, all certificates (BSc, MSc, other degrees), and the contact details of two references, to:

Prof. Birgit Liss,

Reference No: 1907/2024-MSc-PhD

Institute of Applied Physiology, Ulm University, N27

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birgit.liss@uni-ulm.de

Please send copies only, as all application documents will be destroyed after the selection process. Please note that expenses related to your application can not be reimbursed.

Deadline: September 30th, 2024

Employment takes place through the administration department of the University Medical Center Ulm, which acts in the name and on behalf of the federal state of Baden-Württemberg. Handicapped people with equal qualifications will be employed preferentially. The Ulm-University strives for an increased proportion of women in research and teaching and therefore strongly encourages qualified female scientists to apply for the position.