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

A PhD position in Molecular & Cellular Neuroscience (m/f/d).

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

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.