



The research group of Prof. Dr. Bettina Warscheid at the University of Würzburg is offering a

PhD position (f/m/d) in Mitochondrial Proteostasis and Proteomics

The chair for Biochemistry II is a leading group in functional proteomics research with a focus on organelles, signaling and proteostasis networks. The Warscheid group (<http://warscheidlab.de/>) is part of the Department of Biochemistry, located at the Biocenter, University of Würzburg. The overall aim of our work is to understand the organization and functions of the proteome in human health and disease. For our research about the integration of **mitochondria** into the human **proteostasis** network as part of the DFG priority program SPP 2453 (<https://www.spp2453.uni-bonn.de/>), we are looking for a highly motivated new team member. Using cutting-edge **biochemistry**, cell biology and quantitative **proteomics** methods, you will investigate how **human cells** manage to maintain proteostasis when mitochondrial **protein import** is impaired. Within this highly collaborative and timely project, you will elucidate mitochondrial stress-induced **signaling** mechanisms regulating **translation** and follow the **degradation** pathways of **mislocalized** mitochondrial **proteins** in human cells. Your work will contribute to a better understanding of the role of mitochondria in the development of human **disorders**.

Your tasks:

- explore mitostasis pathways and mitochondrial stress signaling
- study protein translation using click chemistry and nascent proteomics
- generate site mutants and stable cell lines
- perform functional studies on new targets
- manage research tasks and collaborate with other leading research labs
- publish and communicate your research results



Your profile:

- Master's degree in Biochemistry, Biology, Chemistry, or a related Life Science discipline
- knowledge in mitochondrial biology, analysis of translation, proteostasis and/or signalling
- experience in cell culture techniques and genetic manipulation of mammalian cells (or yeast)
- profound experience in biochemistry methods; LC-MS and proteomics is advantageous
- knowledge in data analysis, programming/script languages (Python, R) is a plus
- high degree of analytical thinking; excellent communication, writing, and organizational skills
- self-motivated and enthusiastic for academic research in a dynamic team environment

What we offer:

- an interdisciplinary, diverse and highly supportive team in a friendly work environment
- integration and training in DFG-funded research projects and a graduate school
- new labs with an excellent infrastructure for biochemistry, molecular biology and cell biology work
- high-end LC-MS instruments (e.g. Orbitrap Astral, Orbitrap Ascend)
- plenty of support in further education, career development, and training opportunities
- an excellent scientific environment in an international and open-minded research community

The position is as of now available, initially for one year with continued employment sought for up to 3 years. The salary is according to TV-L. The JMU aims to reduce the underrepresentation of women and therefore explicitly encourages qualified women to apply. Severely handicapped applicants will be given preferential consideration in the case of broadly equal suitability, ability and professional achievements.

Interested candidates are invited to send an application including a statement expressing your motivation to join our lab, an academic CV, study certificates, areas of expertise and interests, summary of Master thesis, and the names and contact of two referees as **one PDF** file via email, latest until 10.02.2025, to

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