

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

### **PhD position (f/m/d) in Signaling Proteomics and Proteostasis**

The chair for Biochemistry II (Proteomics and Bioanalytical Mass Spectrometry) is a leading group in functional proteomics research using cutting-edge mass spectrometry-based technologies. The Warscheid group employs modern biochemistry and cell biology methods in combination with quantitative proteomics technologies to study the biogenesis, organization and functions of (sub)cellular proteomes with a focus on metabolic organelles, proteostasis and protein signaling networks in health and disease\*. For our research on cellular stress signaling and protein response networks we are looking for a highly motivated new team member. The successful candidate will study the regulation of stress responses and signaling pathways in mammalian cells. He/she will perform proteomics analyses using high resolution mass spectrometry, study posttranslational modifications (phosphorylation, ubiquitination), and will apply biochemical and molecular biology methods to characterize newly identified factors with a role in maintaining cellular proteostasis.

Your tasks:

- design and conduct unbiased quantitative and functional proteomics experiments
- perform high-resolution liquid-chromatography and mass spectrometry analyses
- develop and refine methods to characterize posttranslational protein modifications
- perform bioinformatics and meta-analyses of quantitative proteomics data
- analyze regulation of protein translation/degradation (turnover) under cellular stress conditions
- generate site mutants, stable cell lines, CRISPR-knockouts for functional analysis of novel factors
- design and manage research tasks and collaborate with other leading research labs
- publish and communicate your research results
- participate in supervision and mentoring of students

Your profile:

- Master degree in Biochemistry, Biology, Chemistry, or a related Life Science discipline
- experience in cell culture techniques and genetic manipulation of mammalian cells (or yeast)
- experience in LC-MS and proteomics is advantageous
- knowledge in data analysis, statistics, programming/script languages (Python, R) is a plus
- excellent communication, writing, and organizational skills
- self-motivated and enthusiastic for academic research

We offer:

- an interdisciplinary, diverse and highly supportive team in a friendly work environment
- training in high-end LC-MS instrumentation and quantitative proteomics technologies
- new labs with an excellent infrastructure for biochemistry, proteomics, molecular and cell biology work
- integration and training in DFG-funded research projects and a graduate school
- an excellent scientific environment and highly productive international collaboration network
- plenty of support in further education, career development, and training opportunities

The position is as of now available, initially for one year, followed by an extension for another two years. The salary is according to TV-L (65%). We are an equal opportunity employer. Applications of women are encouraged. Handicapped candidates with equivalent qualifications will be given preference. Interested candidates should send an application including a statement expressing your motivation to join our lab, an academic CV, study certificates, areas of expertise and interests, and the names and contact of two referees as **one PDF** file via email until 03.03.2024 to Prof. Bettina Warscheid ([bettina.warscheid@uni-wuerzburg.de](mailto:bettina.warscheid@uni-wuerzburg.de)).

Please do not send any original documents per mail. For reasons of cost, documents will not be returned.

\*Selected publications: Fricke et al. *J Proteome Res* (2023); Dewar et al. *Nat Commun* 2022; Morgenstern et al. *Cell Metab* 2021; Dannenmeier et al. *J Biol Chem* 2021; Schwarz et al. *Life Sci Alliance*, 2021; Höfeld et al. *EMBO Rep* (2021); Christopher et al. *Nat Rev Methods Primers* (2021); Reimann et al., *Commun Biol* (2020); Pfanner et al., *Nat Rev Mol Cell Bio* (2019); Topf et al. *Nat Commun* 2018, Morgenstern et al. *Cell Rep* (2017); Peikert et al. *Nat Commun* 2017; Wrobel et al., *Nature* 2015

