



The research group of Prof. Dr. Bettina Warscheid is looking for a

## Postdoctoral Scientist in Mitochondrial Stress Signalling

The chair for Biochemistry and Proteomics is a leading group in functional proteomics research using cutting-edge mass spectrometry technologies. The Warscheid group employs modern biochemistry and cell biology methods in combination with multifaceted quantitative proteomics technologies to study the biogenesis and functions of mitochondria and peroxisomes as well as stress signalling networks and crosstalk between subcellular niches (e.g. Dannenmaier et al., doi.org/10.1101/2021.05.12.443772; Dewar et al. doi.org/10.1101/2021.08.13.456187, Lill et al., PNAS 2020; Reimann et al., Commun Biol 2020; Topf et al., Nat Commun 2018, Morgenstern et al., 2017; Peikert et al., Nat Commun 2017; Wrobel et al., Nature 2015). For our research on mitochondrial stress signalling and crosstalk of mitochondria with the cytosol we are looking for a highly motivated and qualified new team member. He/she will perform quantitative proteomics and signalling/PTM analyses in human and yeast cells and will apply biochemical and molecular biology methods for functional studies on newly identified candidates with a role in maintaining cellular proteostasis.

Your tasks:

- perform mitochondrial stress signalling studies in human cells and yeast
- conduct quantitative redox/phosphoproteomics and protein synthesis/turnover studies
- perform bioinformatics and meta-analyses of proteomics data
- generate site mutants and stable cell lines
- perform functional studies on novel candidate proteins
- design and manage research tasks and collaborate with other leading research labs
- publish and communicate your research results and contribute to project proposals
- participate in supervision and mentoring of students

Your profile:

- PhD degree in Biochemistry, Biology, Chemistry, or a related Life Science discipline
- excellent track record with first/co-author publications in peer-reviewed journals
- expert knowledge in mitochondrial biology; analysis of translation regulation, cellular proteostasis and/or stress/redox signalling with biochemical, proteomics and molecular biology methods
- excellent knowledge in genetic manipulation of yeast and mammalian cells incl. CRISPR-Cas9
- experience in high-resolution LC-MS and proteomics is advantageous but not essential
- sound experience in omics data analysis and statistics; programming/script languages (Python, R)
- high degree of analytical thinking and creativity
- excellent communication, writing, and organizational skills
- highly self-motivated, ambitious and enthusiastic for academic research

We offer:

- an interdisciplinary, internationally diverse and highly supportive team in a friendly work environment
- high-end LC-MS instrumentation and expertise for MS technologies and quantitative proteomics
- new labs with an excellent infrastructure for biochemistry, molecular biology and cell biology work
- a well-funded research group with a well-established and highly productive collaboration network
- an excellent scientific environment in an international and open-minded research community
- plenty of support in further education, career development, and training opportunities

The position is as of now available, initially for two years with the potential for extension for another four years. 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 motivation letter, CV, study certificates, areas of expertise and interests, list of publications, and the names and addresses of 2-3 referees as **one single PDF** file via email to Prof. Dr. Bettina Warscheid ([bettina.warscheid@biologie.uni-freiburg.de](mailto:bettina.warscheid@biologie.uni-freiburg.de)). **Application deadline:** October 03, 2021