



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

Postdoctoral Scientist in Quantitative and Structural Proteomics

The chair for Proteomics and Biochemistry is a leading group in functional proteomics research using cutting-edge mass spectrometry technologies. Research in the Warscheid lab overall aims at gaining detailed knowledge about proteome organization, organelle cross-talk and biogenesis, as well as the regulation of intracellular signalling networks. Our group publishes in high-ranking journals (Morgenstern et al. Cell Metab 2021, Lill et al., PNAS 2020; Dewar et al. doi.org/10.1101/2021.08.13.456187, 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 project “High-resolution proteomics of dynamic protein machineries” within the DFG-funded CRC 1381 “Dynamic organization of cellular protein machineries: From biogenesis and modular assembly to function” (<https://www.sfb1381.uni-freiburg.de/>) we are looking for a highly motivated and qualified new team member. He/she will perform quantitative and structural proteomics studies to expand our understanding of the dynamic organization and functional principle of protein machineries.

Your tasks:

- perform and advance quantitative crosslinking technology
- conduct cutting-edge native MS analyses of dynamic protein machineries
- perform quantitative MS analyses and study posttranslational protein modifications
- be responsible for operating LC and MS systems (Orbitrap and high-mass Q-TOF systems)
- perform bioinformatics and statistical analysis of MS data
- design and manage proteomics projects 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 Biology, Biochemistry, Chemistry, Physics, or a related Life Science discipline
- excellent track record with first/co-author publications in peer-reviewed journals
- hands-on experience in high-resolution LC-MS
- proficient in MS sample preparation, peptide enrichment and quantitative proteomics technologies
- excellent knowledge in proteomics, biochemistry and/or molecular biology approaches
- sound experience in bioinformatics data processing and biostatistics
- skills in common programming/script languages (Python, R)
- high degree of analytical thinking and creativity
- excellent communication, writing, and organizational skills
- highly self-motivated and enthusiastic for MS technologies

We offer:

- an interdisciplinary and highly supportive team in a friendly work environment
- state-of-the-art LC-MS instrumentation (high-resolution Orbitrap instruments)
- 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 two referees as **one single PDF** file via email to Prof. Dr. Bettina Warscheid (bettina.warscheid@biologie.uni-freiburg.de).