Albert-Ludwigs-Universität Freiburg

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

Postdoctoral Scientist in Structural and Quantitative Proteomics

The chair for Proteomics and Biochemistry is a leading group in functional proteomics research using high-end mass spectrometry technologies. Research in the Warscheid lab aims at gaining in-depth knowledge about subcellular proteome organization, organelle cross-talk and biogenesis, and the regulation of signalling networks during cellular stress responses. For our research project "High-resolution proteomics of dynamic protein machineries" within the collaborative research centre 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 new, enthusiastic team member. He/she will employ state-of-the-art quantitative MS and structural proteomics (crosslinking-MS, native MS) methods to obtain a detailed molecular understanding of the dynamic organization and functional principle of protein machineries.

Your tasks:

- perform and advance quantitative crosslinking technology
- conduct native MS analyses to study dynamic protein machineries
- perform quantitative MS studies including posttranslational 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
- hands-on experience in the operation and maintenance of LC and MS instrumentation
- practical experience in MS sample preparation and quantitative proteomics
- 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
- a well-funded research group with a well-established and highly productive collaboration network
- new labs with an excellent infrastructure and state-of-the-art LC-MS instrumentation
- 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 available from April 1st 2021, 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).