



The laboratory of Prof. Dr. Oliver Schilling at the Institute of Surgical Pathology, University Medical Center Freiburg, Germany is offering a

Postdoctoral position in translational, mass-spectrometry based proteomics

The laboratory for Functional and Translational Proteomics, led by Prof. Oliver Schilling, is part of the Institute for Surgical Pathology, at the University Medical Center Freiburg, Germany. Research in the Institute aims to improve patient care through a better understanding of the underlying disease biology and the development of diagnostic methods, especially for personalized medicine. In our laboratory we apply explorative (DDA and DIA, label-free and labelled), targeted, and spatially resolved mass spectrometry methods for translational and biomedical proteomics questions, such as:

- Proteomic stratification of patients with regard to therapeutic response and individualized therapeutic options
- Understanding mechanisms of therapy resistance and identifying novel therapeutic targets
- Investigating the role of proteolytic enzymes in tumorigenesis and metastasis

In addition, we pursue *in vitro* functional studies to mechanistically underpin our proteomic findings and develop wet-lab protocols for a diverse set of proteomic analyses. We also establish bioinformatic pipelines for an improved proteomic data analysis.

We are soliciting applications for a postdoctoral researcher to join our friendly and open-minded team of about 15 scientists with backgrounds in biology, chemistry, medicine, pharmacy and bioinformatics.

The project enables the unique opportunity to shape the next generation of translational proteomics by integrating state of the art approaches for sample preparation, data acquisition and data analysis to unravel proteomic characteristics of diverse solid tumors (kidney, prostate, urogenital, ...). Selected tasks include:

- Improvement of existing and development of new methods, especially for shotgun proteomics to allow additional analysis such as regulatory modifications and proteogenomics
- Establishing targeted proteomic assays
- Contribute to the supervision and maintenance of our diverse mass spectrometers
- Active collaboration with medical doctors and life scientists on local, national and international level

We offer

- Full-time postdoctoral position (TV-L E13, 100%) for initially two years (extension possible); starting date is flexible but early in 2021 is preferred
- Highly translational projects with clinical relevance in a productive and friendly work environment with international and industry collaborations
- Well funded and equipped lab
- Ample opportunities for scientific publishing, conference presentations, grant applications and student supervision
- Plenty opportunities for scientific and professional development

Required qualifications include a PhD in a life sciences discipline (e.g. biology, molecular medicine, chemistry, pharmacy); strong scientific background and experience in mass spectrometry based proteomics including sample preparation, LC-MS/MS instrument handling and ideally also data analysis. Experience with cell culture techniques, protein biochemistry, molecular biology, and / or microscopy is an asset. We also ask for a proactive and cooperative work attitude with excellent problem-solving and organizational skills, very good communication skills in English (written and spoken), and an interest in supervising (PhD) students.

University Medical Center Freiburg

Institute of Surgical Pathology

Prof. Dr. Oliver Schilling

For further inquiries please contact

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General information: Salary is assigned according to a pay scale. Unless prevented by operational or legal reasons, full-time positions are generally open to those wishing to job share. Where two candidates are equally suitable for a post, severely disabled candidates are given priority. Employment decisions are made by the Personnel Department.