

Postdoc MALDI Imaging and spatial Metabolomics & Lipidomics

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



The Core Facility Metabolomics of the **Medical Faculty of the University of Tübingen**, Southern Germany, is looking for a highly-motivated and experienced postdoc analytical scientist in **Mass Spectrometry Imaging (MSI/MALDI)** and **spatial metabolomics & lipidomics**.

The open position shall be filled at the earliest possible date with a **graduated scientist f/m/d** (PhD in chemistry, biochemistry, biology or similar) in **full time** with an initial duration of 1.5 years and potential option of extension. Located at the new **M3 Research Center** for Malignom, Metabolome and Microbiome (<https://www.medizin.uni-tuebingen.de/de/das-klinikum/einrichtungen/zentren/m3>), the Core Facility is embedded in an excellent scientific environment and stands out through strong interdisciplinarity.

The Core Facility is equipped with cutting-edge analytical systems for the **preparation and analysis of biological samples** such as **tissue, organoids** and biofluids from a variety of different human diseases (cancer, neurodegeneration, metabolic disorders) or animal models. In a total of three laboratories we make use of the following **technology**, including two state-of-the art TIMS systems:

- MALDI:** 1) Bruker **timsTOF flex MALDI-2**: Single Cell Metabolomics/Lipidomics, Glycan Imaging
2) Bruker **neoflex** axial benchtop: Spatial Lipidomics, Multiplexed Imaging
- LC-MS:** 3) Bruker **timsTOF pro 2**: Untargeted 4D Metabolomics & 4D Lipidomics
4) **Impact II qTOF**: Targeted Metabolomics & Lipidomics
5) AB Sciex **QTRAP 6500**: Quantitative Metabolomics

Your tasks:

- Development and application of **new assays for MSI** and MALDI Imaging, specifically exploring **new matrix** applications, **single cell metabolomics** and absolute quantitation
- Developing workflows for high-throughput screening on a MSI neoflex benchtop system
- Annotation of datasets and downstream biostatistical analysis, also exploring **AI approaches**
- Support with **teaching, project management**, publications and grant applications

Your profile:

- **Excellent practical skills** in analytical chemistry, specifically **Mass Spec Imaging (MALDI)**
- Strong publication track in the field in MALDI imaging, and ideally Metabolomics/Lipidomics
- **Structured and organized** work to a high degree self-responsibility, good data analyst
- Strong ability to work in a team, supervise, handle and advance projects in parallel

Your benefits:

- Ability to work with **latest MALDI Imaging** instrumentation in a **top German university**
- Writing, contribution and participation in peer-reviewed publications and grant proposals
- Participation in **international conferences**, research programs and training courses
- Engagement in scientific and industrial collaborations and international research networks

We apply the collective agreement for the public service of the states in Germany (TV-L), Severely disabled people will be given priority if they are equally qualified. Since the University of Tübingen wants to increase the proportion of women in science, women are strongly encouraged to apply.

Further information please contact:

Dr. rer. nat. Christoph Trautwein

+49-7071-29-82500

christoph.trautwein@med.uni-tuebingen.de

[https://www.medizin.uni-tuebingen.de/de/medizinische-](https://www.medizin.uni-tuebingen.de/de/medizinische-fakultaet/forschung/core-facilities/metabolomics)

[fakultaet/forschung/core-facilities/metabolomics](https://www.medizin.uni-tuebingen.de/de/medizinische-fakultaet/forschung/core-facilities/metabolomics)

<https://www.linkedin.com/company/104960207>



M3
MALIGNOME.
METABOLOME.
MICROBIOME.

**Universitätsklinikum
Tübingen**