



Postdoc MALDI Imaging & Metabolomics in Endometriosis Research (f/m/d)



Within our recently granted BMBF research project ENDO-RELIEF ([learn more](#)) we are looking for a highly motivated postdoctoral fellowship with a strong scientific background in **MALDI Imaging and Spatial Metabolomics**. Based on different laboratory settings, the candidate will work both at the Core Facility Metabolomics at the new M3 Research Center as well as the Werner Siemens Imaging Center and therefore be embedded in an excellent scientific environment which stands out through high interdisciplinarity.

The open position shall be filled at the earliest possible date with a **graduated scientist f/m/d** (PhD in molecular medicine, imaging sciences, bio/chemistry, biology) in **full time** for an initial period of one and a half years (18 months) with the possibility of further extension.

The postdoc position deals with the **development and application** of state-of-the art **MALDI Imaging** (Bruker timsTOF flex MALDI-2) and LC-MS (Bruker timsTOF pro 2) to investigate **human endometriosis** for better patient stratification and target therapy identification. Additional **NMR spectroscopy** (Bruker IVDr NMR) will be accessed for quantitative biofluid metabolomics and structure elucidation of unknown features.

Your tasks:

- Development and application of new tissue assays, e.g. quantitative MSI and spatial Omics
- Operating and method development for **multiplexed MALDI Imaging** on a Bruker timsTOF flex
- **Discover biomarkers** and therapy targets for human endometriosis in tissue and serum
- Measurement and metabolomics analysis of samples by untargeted LC-MS and IVDr NMR
- Annotation of datasets and downstream integrative data analysis (e.g. pathway mapping of images)
- Support with teaching, writing publications and third-party funding application

Your profile:

- Excellent **practical skills in MALDI Imaging** and downstream data analysis
- Strong practical skills in analytical chemistry, specifically LC and mass spectrometry
- **Strong publication track** in the field of metabolomics, lipidomics and MALDI imaging
- Structured and organized work to a high degree self-responsibility and supervision
- Strong ability to work in a team, supervise and handle multiple projects in parallel

Your benefits:

- Working in the diverse environment of a modern university hospital
- Writing, contribution and participation in peer-reviewed publications and grant applications
- **Participation in ENDO-RELIEF**, international conferences, retreats and research programs
- Engagement in scientific and industrial collaborations, e.g. with M4i and Bruker

We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States), severely handicapped persons with equal qualifications are given preferential consideration. Interview expenses are not covered. Please note the applicable vaccination regulations.

Further information please contact:

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Application deadline: **12.11.2024**

Please upload your full application documents (CV, certificates, application letter, references) quoting the **reference number 5230** by following the link: [https://jobs.medizin.uni-tuebingen.de/Job/5230/PostDoc-\(f-m-d\)-MALDI-Imaging-and-Metabolomics](https://jobs.medizin.uni-tuebingen.de/Job/5230/PostDoc-(f-m-d)-MALDI-Imaging-and-Metabolomics) and pressing the **“Apply Now”** button.

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