

Details

Ulm Life Science & Medicine Technology Center (ULMTeC)

The "Ulm Life Science & Medicine Technology Center" (ULMTeC) is an operational unit that structurally comprises all the core facilities of the Medical Faculty. The core facilities of the three technology areas "imaging", "omics", and "model systems" provide scientific resources, technologies, and services for internal and external users. The ULMTeC management team acts as an interface between the core facilities, scientists, and faculty administration to ensure the accessibility, visibility, transparency, and financial sustainability of the core facilities. The aim is to sustainably strengthen scientific performance and to fully support innovative research projects through the shared use of specialized infrastructure.

Address: Albert-Einstein-Allee 11, TTU M28
89081 Ulm
Baden-Württemberg
Deutschland
[To website](#)

Host Institution

Medizinische Fakultät der Universität Ulm
Albert-Einstein-Allee 11, TTU M28
89081 Ulm
Baden-Württemberg
Deutschland
<https://www.uni-ulm.de/medizinische-fakultaet/>

Scientific Domain

Primary Subjects:

- Biology
- Medicine

Secondary Subjects:

- Physics

Category

Translational Research Centers of Competence

Scientific Services

ULMTeC offers access to central research infrastructures (core facilities) in the three technology areas "imaging" (light microscopy, small animal imaging, human imaging MRI and PET/MRI), "omics" (genomics, bioinformatics, laser microdissection, mass spectrometry, proteomics, functional peptidomics, extracellular flux analyzer, cytometry, immune monitoring), and "model systems" (transgenic mice, organoids, viruses) for research support. Thanks to continuously updated infrastructure and specialized equipment, the various core facilities enable all scientists to efficiently address their challenging research questions. Users also benefit from the expertise of experienced technology experts throughout the entire process. Furthermore, the ULMTeC Core Facilities provide support in experimental design, the planning and implementation of analyses, measurements, trainings, data management, and quality control. Networking events within ULMTeC promote skill development and connect research groups across disciplines, creating opportunities for innovative and interdisciplinary projects.

Scientific Equipment

- 3 T whole body MRI scanner
- 11.7 T small animal MRI scanner
- 3T PET/MRI scanner
- 3D Bioprinter
- FACS Sorter

- Helios CyTOF masscytometry
- spectral flow cytometry
- fluorescence and two photon confocal microscopy
- Lasermicrodissection System
- Peptide synthesizer
- Mass Spectrometer and MALDI-TOF
- preparative and analytical cromatography
- Extracellular Flux Analyzer
- Single Cell Sequencing and NGS (NextGen 1000)
- Viral Vector production facility (S2)

Keywords

- technology center
- competence- and trainingsplatform
- core facility
- core facility management
- research infrastructure
- shared infrastructure
- quality management
- interdisciplinarity
- booking sytem
- Cytometry
- translational imaging
- Lightmicroscopy
- Organoids
- NGS
- mass spectrometry

Networks

Users per annum

Internal Users: > 500
External Users in total: 20
External Users:
External Users in the EU:
External Users outside of EU: