

MRI FACILITY DIRECTORY

Name of Institution: **Magnetic Resonance Development and Application Center, Freiburg (MRDAC)**
Institution's Address: UKL FR/Rdiag/MRDAC
Hugstetterstr. 55
D-79108 Freiburg
Germany
Web Site Address: www.MRDAC.com

Can accommodate both Pre-Clinical and Clinical research projects.

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Below is a brief narrative of the institution's MRI capabilities. The following information was provided by the institution. BioPAL has compiled the MRI facility directory to aid researchers access MRI services. The listing is not an endorsement by BioPAL.

The MR Development and Application Center (MRDAC) has its source in Medical Physics Group, Dept. of Radiology, University Hospital Freiburg, one of the internationally leading groups in the field of methodological developments in Magnetic Resonance Imaging and Spectroscopy and its application in clinics and research.

MRDAC was established in 2001 to serve as a platform for collaborations with partners in industry and research according to industrial quality and performance standards. The incorporation of MRDAC as an institution of the University Hospital Freiburg allows us to incorporate the expertise and excellence of clinicians and scientists from a wide range of fields into our projects and services. Thus, it serves as an interface between the scientific activities of the scientific Medical Physics Group and professional users in industry and academia.

MRDAC translates cutting edge scientific developments into easy-to-use products for clinical applications.

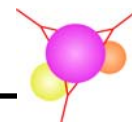
The main branches of MRDAC include:

- The development of novel MR sequences and methods,
- Design, implementation, and execution of MR studies in the context of pharmaceutical clinical studies,
- Design, implementation, and execution of pre-clinical MR studies, and
- Design, implementation, and execution of MR-data analysis.

Facilities

- MR Systems – dedicated exclusively to clinical studies, research and development:
 - Siemens Trio 3T MR scanner equipped with TIM (Total imaging matrix) technology.
 - Siemens 1.5T MR scanner (Symphony, Sonata, Espree, Avanto).
 - ESAOTE G-Scan 0.25 T MR scanner with hydraulic tilting mechanism for 0° to 90°
- Animal MR Systems – dedicated to research and development:
 - Bruker 9.4 T small bore animal system.
- State of the art hardware and software facilities for post processing.
- MR-compatible computer controlled contrast media injectors.
- MR-compatible artificial respiration system.
- MR-compatible patient monitoring system (EEG, pulse, respiration, ...)

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MRI FACILITY DIRECTORY

- MR-compatible audio/visual stimulation devices for fMRI.
- MR-compatible 64 channel EEG.
- MR-compatible ultrasound system.
- Full access to clinical and research infrastructure of the University Hospital Freiburg, one of the largest of its kind in Europe.

Experience

- Participation in clinical studies in the areas of oncology, cardiology, nephrology, psychiatry
- Over 2000 DCE-MRI examinations in clinical phase I and II studies
- Multi-center MR protocol development, distribution and testing
- Multi-center data analysis
- Sequence and protocol development on Siemens and Bruker platforms

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