cw EPR-spectrometer *Bio-EPR*	Model: Unit and Room: Responsible: Further information:	*Bruker EMX; Bruker Elexsys 500* *Biochemistry, 10th floor, R. 1012* *Prof. Dr. Thorsten Friedrich, 203 6060* *Prof. Dr. Oliver Einsle, 203 6059* *http://portal.uni-freiburg.de/biochemie*

Short Description:

X-Band, cw-EPR spectrometer, 6" water cooled magnet, X-band Gunn-Oscillator bridge, 6 to 100 kHz modulation, field sweep over 1.3 T, accuracy. 0.1 µT; automatic FF-Lock control, windows-based software control

Picture of the Equipment

Available Experiments/Techniques:

High sensitivity RT cavity; rectangular He-temperature cavity, He-cooling system

Special Equipment:

Post-processing software; Simulation software

Measurements on the equipment are currently done by:	☐ Students ☐ Students after Introduction ☐ Students after extensive training ☒ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	Angew. Chem. Int. Ed. 46, 8605-8608.
Typical problems that may be solved with this instrument:	*Detection and characterization of radical species; Determination of distances and dynamics via spin label techniques; Detection and Characterization of transition metals*