

Resource Summary Report

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National Biomedical Electron Paramagnetic Resonance Center

RRID:SCR_006601

Type: Tool

Proper Citation

National Biomedical Electron Paramagnetic Resonance Center (RRID:SCR_006601)

Resource Information

URL: <http://www.mcw.edu/EPRCenter.htm>

Proper Citation: National Biomedical Electron Paramagnetic Resonance Center (RRID:SCR_006601)

Description: Biomedical technology research center focusing on technological innovation and application of new techniques to biological problems. The main areas of research are free radicals, spin labeling, metal complexes, and metallo proteins. Spectrometers are available for S-, X-, L-, Q-, and W-band EPR, many with ENDOR, ELDOR, saturation-transfer, saturation-recovery, and multiquantum capabilities. * Development of multiquantum Q- and W-band spectrometers, including multiquantum ELDOR, development of time-locked sub-sampling (TLSS) for broadband detection of periodically modulated signals * Development of loop-gap resonators using finite element modeling of Maxwell's equations * Application of multifrequency (1 to 100 GHz) electron paramagnetic resonance (EPR) to characterize paramagnetic centers * Study of relaxation processes using multifrequency pulse saturation recovery * Use of nitroxide radical spin labels to measure translational and rotational diffusion in biological systems, site-directed spin labeling (SDSL), and use of EPR for the detection of nitric oxide and oxy radicals

Abbreviations: National Biomedical EPR Center, EPR Center

Synonyms: National Biomedical EPR

Resource Type: biomedical technology research center, training resource

Keywords: spectrometer, electron paramagnetic resonance, free radical, spin labeling, metal complex, metallo protein

Funding: NIBIB

Resource Name: National Biomedical Electron Paramagnetic Resonance Center

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Alternate IDs: nlx_152655

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Ratings and Alerts

No rating or validation information has been found for National Biomedical Electron Paramagnetic Resonance Center.

No alerts have been found for National Biomedical Electron Paramagnetic Resonance Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.