

# Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

## 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

**Resource ID:** SCR\_006601

**Alternate IDs:** nlx\_152655

**Record Creation Time:** 20220129T080237+0000

**Record Last Update:** 20260905T133327+0000

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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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.