

Resource Summary Report

Generated by T1D on Aug 1, 2026

National MagLab University of Florida McKnight Brain Institute Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility

RRID:SCR_017362

Type: Tool

Proper Citation

National MagLab University of Florida McKnight Brain Institute Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility (RRID:SCR_017362)

Resource Information

URL: <https://amris.mbi.ufl.edu/>

Proper Citation: National MagLab University of Florida McKnight Brain Institute Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility (RRID:SCR_017362)

Description: National High Magnetic Field Laboratory (MagLab) site. It provides researchers with advanced NMR, MRI, and spectroscopy tools (human/animal imaging) for biomedical studies, specializing in high-field magnetic resonance technology. Hosts spectrometers and scanners, including high-field NMR (up to 1.5 GHz), MR microscopy, and human/animal MRI systems (e.g., 3T and 900 MHz). Offers expertise in high-resolution solution NMR, solid-state NMR, and specialized imaging for in vivo animal models and humans. Features an RF coil lab that designs, builds, and tests custom MRI/NMR coils to optimize data collection. Supports research into Alzheimer's, cancer, metabolism, and brain development.

Abbreviations: AMRIS

Synonyms: , Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Facility

Resource Type: core facility, service resource, access service resource

Keywords: Nuclear Magnetic Resonance, Magnetic Resonance Imaging, spectroscopy, magnetic resonans, scanner, magnet

Funding: Department of Defense ;
Department of Energy ;
NSF DMR-1644779;
NSF DMR-2128556;

NSF DMR-1157490;
State of Florida

Availability: Restricted

Resource Name: National MagLab University of Florida McKnight Brain Institute
Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility

Resource ID: SCR_017362

Alternate IDs: SCR_017363

Alternate URLs: <https://nationalmaglab.org/user-facilities/nmr-mri>,
<https://nationalmaglab.org>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260731T043013+0000

Ratings and Alerts

No rating or validation information has been found for National MagLab University of Florida McKnight Brain Institute Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility.

No alerts have been found for National MagLab University of Florida McKnight Brain Institute Advanced Magnetic Resonance Imaging and Spectroscopy AMRIS Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 859 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Hung I, et al. (2025) High-Resolution $1\text{H}/17\text{O}$ NMR Correlation under Fast Magic-Angle Spinning: Revisiting Cross-Polarization for Quadrupolar Nuclei. The journal of physical chemistry letters, 16(27), 7036.

Zhao W, et al. (2025) Enriched Molecular-Level View of Saline Wetland Soil Carbon by Sensitivity-Enhanced Solid-State NMR. Journal of the American Chemical Society, 147(1), 519.

Aliakseyeu A, et al. (2025) Self-Diffusion of Star and Linear Polyelectrolytes in Salt-Free and Salt Solutions. Macromolecules, 58(1), 240.

- Truong E, et al. (2025) Accelerating ion transport in polycrystalline conductors: On pores and grain boundaries. *Science advances*, 11(20), eadt7795.
- Yarava JR, et al. (2025) Proton-Detected Solid-State NMR for Deciphering Structural Polymorphism and Dynamic Heterogeneity of Cellular Carbohydrates in Pathogenic Fungi. *Journal of the American Chemical Society*, 147(20), 17416.
- Wang Z, et al. (2025) Discovery of a New Phase in Thin Flakes of KV₃Sb₅ under Pressure. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(16), e2415012.
- Perras FA, et al. (2025) Perspectives on the Dynamic Nuclear Polarization Mechanisms of Monoradicals: Overhauser Effect or Thermal Mixing? *The journal of physical chemistry letters*, 16(14), 3420.
- Vo Q, et al. (2025) Functional connectivity within sensorimotor cortical and striatal regions is regulated by sepsis in a sex-dependent manner. *NeuroImage*, 305, 120995.
- Moon S, et al. (2025) Magneto-optical Evidence of the Tilting Effect in Coupled Weyl Bands. *Nano letters*, 25(7), 2858.
- Liu Y, et al. (2025) Signatures of Floquet electronic steady states in graphene under continuous-wave mid-infrared irradiation. *Nature communications*, 16(1), 2057.
- Li Z, et al. (2025) Observation of odd-parity superconductivity in UTe₂. *Proceedings of the National Academy of Sciences of the United States of America*, 122(13), e2419734122.
- Chang MC, et al. (2025) Assessing cancer therapeutic efficacy in vivo using [2H₇]glucose deuterium metabolic imaging. *Science advances*, 11(13), eadr0568.
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- Peach A, et al. (2025) Capturing and labeling CO₂ in a jar: mechanochemical ¹⁷O-enrichment and ssNMR study of sodium and potassium (bi)carbonate salts. *Chemical science*, 16(24), 10731.
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- Elbanna AH, et al. (2025) Discovery of a parallel family of euglenatide analogs in *Euglena gracilis*. *Natural products and bioprospecting*, 15(1), 10.
- Cantrell AR, et al. (2025) Protocol for high-power, brain-focused microwave fixation to define rodent metabolism. *STAR protocols*, 6(2), 103794.
- Gui H, et al. (2025) Probing orbital magnetism of a kagome metal CsV₃Sb₅ by a tuning fork resonator. *Nature communications*, 16(1), 4275.
- Ngo DX, et al. (2025) Large Hyperfine Coupling Arising from Pseudo-2S Ground States in a Series of Lutetium(II) Metallocene Complexes. *Journal of the American Chemical Society*, 147(16), 13799.

Pravdivtsev AN, et al. (2025) Unconventional Parahydrogen-Induced Hyperpolarization Effects in Chemistry and Catalysis: From Photoreactions to Enzymes. ACS catalysis, 15(8), 6386.