

Resource Summary Report

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Biological Magnetic Resonance Data Bank (BMRB)

RRID:SCR_002296

Type: Tool

Proper Citation

Biological Magnetic Resonance Data Bank (BMRB) (RRID:SCR_002296)

Resource Information

URL: <https://bmrbl.io>

Proper Citation: Biological Magnetic Resonance Data Bank (BMRB)
(RRID:SCR_002296)

Description: Public depository that collects, annotates, archives, and disseminates important spectral and quantitative data derived from nuclear magnetic resonance spectroscopic investigations of biological macromolecules and metabolites. Provides reference information and maintains a collection of NMR pulse sequences and computer software for biomolecular NMR.

Abbreviations: BioMagResBank, BMRB

Synonyms: BMRB, BioMagResBank, Biological Magnetic Resonance DataBank, BioMag Res Bank

Resource Type: data or information resource, database, data repository, service resource, storage service resource

Defining Citation: [PMID:18288446](#), [PMID:17984079](#), [PMID:12766409](#), [PMID:36478084](#)

Keywords: magnetic resonance, data bank, depository, database, data repository, spectral data, quantitative data, nmr, spectroscopy, macromolecule, metabolite, metabolomics, FASEB list

Funding: NLM LM05799

Availability: Free, Freely available

Resource Name: Biological Magnetic Resonance Data Bank (BMRB)

Resource ID: SCR_002296

Alternate IDs: r3d100010191, nif-0000-21058

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260803T040329+0000

Ratings and Alerts

No rating or validation information has been found for Biological Magnetic Resonance Data Bank (BMRB).

No alerts have been found for Biological Magnetic Resonance Data Bank (BMRB).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 752 mentions in open access literature.

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

Foote JB, et al. (2025) A Pan-RAS Inhibitor with a Unique Mechanism of Action Blocks Tumor Growth and Induces Antitumor Immunity in Gastrointestinal Cancer. *Cancer research*, 85(5), 956.

Williams CG, et al. (2025) Backbone Assignment of a 28.5 kDa Class A Extended Spectrum ??-Lactamase by High-Field, Carbon-Detected Solid-State NMR. *bioRxiv : the preprint server for biology*.

Schwegler E, et al. (2025) Backbone NMR assignments of the essential oxidoreductase tryparedoxin from the human pathogenic parasite *Trypanosoma cruzi*. *Biomolecular NMR assignments*, 19(2), 267.

Hancock LP, et al. (2025) Agent-based modelling of the early stages of actin polymerisation required to drive endocytosis in *Saccharomyces cerevisiae*. *Scientific reports*, 15(1), 28951.

Andersson ER, et al. (2025) Securing the Future of NMR Metabolomics Reproducibility: A Call for Standardized Reporting. *Analytical chemistry*, 97(38), 20655.

Carrillo VHP, et al. (2025) Bidirectional communication between nucleotide and substrate binding sites in a type IV multidrug ABC transporter. *Nature communications*, 16(1), 9921.

Kraichely KN, et al. (2025) Functionally distinct SNARE motifs of SNAP25 cooperate in SNARE assembly and membrane fusion. *Biophysical journal*, 124(4), 637.

Maciag AE, et al. (2025) Blocking C-terminal processing of KRAS4b via a direct covalent attack on the CaaX-box cysteine. *Proceedings of the National Academy of Sciences of the United States of America*, 122(19), e2410766122.

Streit JO, et al. (2025) Rational design of ¹⁹F NMR labelling sites to probe protein structure and interactions. *Nature communications*, 16(1), 4300.

Liu S, et al. (2025) Assisting and accelerating NMR assignment with restrained structure prediction. *Communications biology*, 8(1), 1067.

Meng Y, et al. (2025) Protein structure prediction via deep learning: an in-depth review. *Frontiers in pharmacology*, 16, 1498662.

Vidya F, et al. (2025) Large protein-like leader peptides engage differently with RiPP halogenases and lanthionine synthetases. *Nature communications*, 16(1), 9273.

Paukovich N, et al. (2025) Intrinsically disordered cytoplasmic tail in netrin receptor DCC binds the large ribosomal subunit to inhibit translation. *The Journal of biological chemistry*, 301(11), 110741.

Canny MD, et al. (2025) Dynamic conformations of the *P. furiosus* MR-DNA complex link Mre11 nuclease activity to DNA-stimulated Rad50 ATP hydrolysis. *Communications biology*, 8(1), 548.

Gammons MV, et al. (2025) Wnt signalosome assembly is governed by conformational flexibility of Axin and by the AP2 clathrin adaptor. *Nature communications*, 16(1), 4718.

Setti G, et al. (2025) Tissue and Salivary NMR Metabolomics in Reticular-Type Oral Lichen Planus. *NMR in biomedicine*, 38(10), e70137.

Biancaniello C, et al. (2025) Structure and Dynamics of the Misfolding Intermediate in the Pathogenic T183A Prion Protein Mutant. *Journal of chemical theory and computation*, 21(19), 9909.

Moschidi D, et al. (2025) ¹H, ¹³C and ¹⁵N chemical shift assignments of Rubella virus macro domain in the free and in the ADPr bound state. *Biomolecular NMR assignments*, 19(1), 117.

Ludzia P, et al. (2025) ¹H, ¹³C and ¹⁵N resonance assignments for the acetyltransferase domain of the kinetoplastid kinetochore protein KKT23 from *Trypanosoma brucei*. *Biomolecular NMR assignments*, 19(1), 187.

Hegde S, et al. (2025) Mechanistic studies of small molecule ligands selective to RNA single G bulges. *Nucleic acids research*, 53(12).