Resource Summary Report

Generated by dkNET on Apr 15, 2025

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://bmrb.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, service resource, data repository, database, 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: nif-0000-21058

Record Creation Time: 20220129T080212+0000

Record Last Update: 20250412T054700+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 724 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Hay AE, et al. (2024) Comparative metabolomics reveals how the severity of predation by the invasive insect Cydalima perspectalis modulates the metabolism re-orchestration of native Buxus sempervirens. Plant biology (Stuttgart, Germany).

Parrón-Ballesteros J, et al. (2024) Long-chain fatty acids block allergic reaction against lipid transfer protein Sola l 7 from tomato seeds. Protein science : a publication of the Protein Society, 33(9), e5154.

Wojtowicz W, et al. (2024) Serum metabolite and metal ions profiles for breast cancer screening. Scientific reports, 14(1), 24559.

Ludzia P, et al. (2024) NMR study of the structure and dynamics of the BRCT domain from the kinetochore protein KKT4. Biomolecular NMR assignments, 18(1), 15.

Cruz-Navarrete FA, et al. (2024) Peri active site catalysis of proline isomerisation is the molecular basis of allomorphy in ?-phosphoglucomutase. Communications biology, 7(1), 909.

Raffaelli T, et al. (2024) Structural analysis of a U-superfamily conotoxin containing a mini-granulin fold: Insights into key features that distinguish between the ICK and granulin folds. The Journal of biological chemistry, 300(4), 107203.

Yang K, et al. (2024) Molecular mechanism of specific HLA-A mRNA recognition by the RNA-binding-protein hMEX3B to promote tumor immune escape. Communications biology, 7(1), 158.

Aspholm EE, et al. (2024) Structural basis of substrate recognition and allosteric activation of the proapoptotic mitochondrial HtrA2 protease. Nature communications, 15(1), 4592.

Jönsson M, et al. (2024) Cooperative folding as a molecular switch in an evolved antibody binder. The Journal of biological chemistry, 300(11), 107795.

Tossavainen H, et al. (2024) Chemical shift assignments of the catalytic domain of Staphylococcus aureus LytM. Biomolecular NMR assignments, 18(1), 1.

Sharma P, et al. (2024) Disordered-to-ordered transitions in assembly factors allow the complex II catalytic subunit to switch binding partners. Nature communications, 15(1), 473.

Pettitt AJ, et al. (2024) An integrative characterization of proline cis and trans conformers in a disordered peptide. Biophysical journal, 123(21), 3798.

Dong X, et al. (2024) Structural basis for the regulation of plant transcription factor WRKY33 by the VQ protein SIB1. Communications biology, 7(1), 561.

Hameed R, et al. (2024) Functional implications of NHR-210 enrichment in C. elegans cephalic sheath glia: insights into metabolic and mitochondrial disruptions in Parkinson's disease models. Cellular and molecular life sciences : CMLS, 81(1), 202.

Wallerstein J, et al. (2024) Insights into mechanisms of MALT1 allostery from NMR and AlphaFold dynamic analyses. Communications biology, 7(1), 868.

Bej A, et al. (2024) Chemical shift assignments of the ?-actinin C-terminal EF-hand domain bound to a cytosolic C0 domain of GluN1 (residues 841-865) from the NMDA receptor. Biomolecular NMR assignments, 18(2), 239.

Coelho A, et al. (2024) Resonance assignments of cytochrome MtoD from the extracellular electron uptake pathway of sideroxydans lithotrophicus ES-1. Biomolecular NMR assignments, 18(2), 139.

Yared MJ, et al. (2024) Imino chemical shift assignments of tRNAAsp, tRNAVal and tRNAPhe from Escherichia coli. Biomolecular NMR assignments, 18(2), 323.

Kang D, et al. (2024) NMR investigation of FOXO4-DNA interaction for discriminating target and non-target DNA sequences. Communications biology, 7(1), 1425.

Tariq M, et al. (2024) Structural insights into the complex of oncogenic KRas4BG12V and Rgl2, a RalA/B activator. Life science alliance, 7(1).