Resource Summary Report

Generated by NIF on May 4, 2025

Sparky

RRID:SCR_014228
Type: Tool

Proper Citation

Sparky (RRID:SCR_014228)

Resource Information

URL: https://www.cgl.ucsf.edu/home/sparky/

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Description: A graphical NMR assignment and integration program for proteins, nucleic acids, and other polymers. Sparky displays NMR spectra, the peaks of which users may pick, assign, and integrate using a graphical interface. Users can work with any number of 2, 3 or 4 dimensional spectra simultaneously. Spectra for input to Sparky can be produced with processing programs NMRPipe, Felix, VNMR, XWinNMR or UXNMR. Output consists of text peak lists showing assignments, chemical shifts, volumes, line widths, etc.

Resource Type: data processing software, software resource, data analysis software, software application

Keywords: graphical nmr, protein integration, nucleic acid integration

Funding:

Availability: Free, Acknowledgement requested

Resource Name: Sparky

Resource ID: SCR_014228

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Record Creation Time: 20220129T080319+0000

Record Last Update: 20250503T060449+0000

Ratings and Alerts

No rating or validation information has been found for Sparky .

No alerts have been found for Sparky .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 463 mentions in open access literature.

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

Lotz R, et al. (2025) Alternative splicing in the DBD linker region of p63 modulates binding to DNA and iASPP in vitro. Cell death & disease, 16(1), 4.

Litschko C, et al. (2025) Transition transferases prime bacterial capsule polymerization. Nature chemical biology, 21(1), 120.

Fatalska A, et al. (2024) Recruitment of trimeric eIF2 by phosphatase non-catalytic subunit PPP1R15B. Molecular cell, 84(3), 506.

Shukla S, et al. (2024) Disorder in CENP-ACse4 tail-chaperone interaction facilitates binding with Ame1/Okp1 at the kinetochore. Structure (London, England : 1993), 32(6), 690.

Funes S, et al. (2024) Expression of ALS-PFN1 impairs vesicular degradation in iPSC-derived microglia. Nature communications, 15(1), 2497.

Ruan X, et al. (2024) Breast cancer cell-secreted miR-199b-5p hijacks neurometabolic coupling to promote brain metastasis. Nature communications, 15(1), 4549.

Kravec M, et al. (2024) Carboxy-terminal polyglutamylation regulates signaling and phase separation of the Dishevelled protein. The EMBO journal, 43(22), 5635.

Altincekic N, et al. (2024) Targeting the Main Protease (Mpro, nsp5) by Growth of Fragment Scaffolds Exploiting Structure-Based Methodologies. ACS chemical biology, 19(2), 563.

Rimbault C, et al. (2024) Engineering paralog-specific PSD-95 recombinant binders as minimally interfering multimodal probes for advanced imaging techniques. eLife, 13.

Burns D, et al. (2024) An ?-ketoglutarate conformational switch controls iron accessibility, activation, and substrate selection of the human FTO protein. Proceedings of the National Academy of Sciences of the United States of America, 121(25), e2404457121.

Zheng H, et al. (2024) Aurora-A condensation mediated by BuGZ aids its mitotic centrosome functions. iScience, 27(5), 109785.

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

Cravero BH, et al. (2024) A high-resolution 13C NMR approach for profiling fatty acid unsaturation in lipid extracts and in live Caenorhabditiselegans. Journal of lipid research, 65(9), 100618.

Wang Y, et al. (2024) Mutual promotion of co-condensation of KRAS G-quadruplex and a well-folded protein HMGB1. Nucleic acids research, 52(1), 288.

Xiong W, et al. (2024) Cathelicidin-HG Alleviates Sepsis-Induced Platelet Dysfunction by Inhibiting GPVI-Mediated Platelet Activation. Research (Washington, D.C.), 7, 0381.

Serafin P, et al. (2024) Opioid/Dopamine Receptor Binding Studies, NMR and Molecular Dynamics Simulation of LENART01 Chimera, an Opioid-Bombesin-like Peptide. Molecules (Basel, Switzerland), 29(1).

Furukawa A, et al. (2024) Protocol to identify the ligand binding site of Mincle using NMR spectroscopy. STAR protocols, 5(2), 102996.

Schwalm MP, et al. (2024) Critical assessment of LC3/GABARAP ligands used for degrader development and ligandability of LC3/GABARAP binding pockets. Nature communications, 15(1), 10204.

Low JYK, et al. (2023) Release of frustration drives corneal amyloid disaggregation by brain chaperone. Communications biology, 6(1), 348.

Suskiewicz MJ, et al. (2023) Updated protein domain annotation of the PARP protein family sheds new light on biological function. Nucleic acids research, 51(15), 8217.