Resource Summary Report

Generated by NIF on May 18, 2025

Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB)

RRID:SCR_012820
Type: Tool

Proper Citation

Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB) (RRID:SCR_012820)

Resource Information

URL: http://www.rcsb.org/#Category-welcome

Proper Citation: Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB) (RRID:SCR_012820)

Description: Collection of structural data of biological macromolecules. Database of information about 3D structures of large biological molecules, including proteins and nucleic acids. Users can perform queries on data and analyze and visualize results.

Abbreviations: RCSB PDB

Synonyms: RCSB, Research Collaboratory for Structural Bioinformatics Protein Data Bank, The Protein Data Bank, PDB, Protein Databank, RCSB Protein Data Bank, Protein Data Bank

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

Defining Citation: PMID:12037327

Keywords: 3-dimensional, annotation, molecule, nucleic acid, protein, visualization, sequence, function, macromolecule, ligand, model, dna, x-ray crystallography, ribosome, structure, oncogene, nucleic acids, molecular structure, cryomicroscopy, gold standard, FASEB list

Funding: NIH ;
DOE ;

NSF DBI-1338415

Availability: Public, Acknowledgement requested

Resource Name: Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB)

Resource ID: SCR_012820

Alternate IDs: nif-0000-00135, SCR_017379

Alternate URLs: http://www.rcsb.org, http://www.pdb.org,

Old URLs: http://www.rcsb.org/pdb/

Record Creation Time: 20220129T080312+0000

Record Last Update: 20250517T060050+0000

Ratings and Alerts

No rating or validation information has been found for Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB).

No alerts have been found for Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB).

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7731 mentions in open access literature.

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

Wang J, et al. (2025) MCU complex: Exploring emerging targets and mechanisms of mitochondrial physiology and pathology. Journal of advanced research, 68, 271.

Guan H, et al. (2025) Simultaneous binding of quercetin and catechin to FOXO3 enhances IKK? transcription inhibition and suppression of oxidative stress-induced acute alcoholic liver injury in rats. Journal of advanced research, 67, 71.

Liu G, et al. (2025) oriTDB: a database of the origin-of-transfer regions of bacterial mobile genetic elements. Nucleic acids research, 53(D1), D163.

Abuzahra M, et al. (2025) A novel p.127Val>Ile single nucleotide polymorphism in the MTNR1A gene and its relation to litter size in Thin-tailed Indonesian ewes. Animal bioscience, 38(2), 209.

Tian Y, et al. (2025) Structural insight into Okazaki fragment maturation mediated by PCNA-bound FEN1 and RNaseH2. The EMBO journal, 44(2), 484.

Markusson S, et al. (2025) Nanobodies against the myelin enzyme CNPase as tools for structural and functional studies. Journal of neurochemistry, 169(1), e16274.

Qureshi NS, et al. (2025) Tracking transcription-translation coupling in real time. Nature, 637(8045), 487.

Lv H, et al. (2025) Differential antigenic imprinting effects between influenza H1N1 hemagglutinin and neuraminidase in a mouse model. Journal of virology, 99(1), e0169524.

Camargo PG, et al. (2025) In vitro assays identified thiohydantoins with anti-trypanosomatid activity and molecular modelling studies indicated possible selective CYP51 inhibition. Scientific reports, 15(1), 465.

Zhang F, et al. (2025) Cryo-EM structure and oligomerization of the human planar cell polarity core protein Vangl1. Nature communications, 16(1), 135.

Unsal V, et al. (2025) Evaluation of extra virgin olive oil compounds using computational methods: in vitro, ADMET, DFT, molecular docking and human gene network analysis study. BMC chemistry, 19(1), 3.

Kuang W, et al. (2025) Eupalinolide B inhibits periodontitis development by targeting ubiquitin conjugating enzyme UBE2D3. MedComm, 6(1), e70034.

Awad W, et al. (2025) Cigarette smoke components modulate the MR1-MAIT axis. The Journal of experimental medicine, 222(2).

Guerguer FZ, et al. (2025) Moroccan natural products for multitarget-based treatment of Alzheimer's disease: A computational study. PloS one, 20(1), e0313411.

Trasviña-Arenas CH, et al. (2025) Crystal structure of MutYX: A novel clusterless adenine DNA glycosylase with a distinct C-terminal domain and 8-Oxoguanine recognition sphere. bioRxiv : the preprint server for biology.

Zhang Y, et al. (2025) Exploring similarities and differences in anti-atherosclerotic potential bioactives among Dendrobium species by UPLC-Q-Exactive Orbitrap MS. NPJ science of food, 9(1), 6.

Xiao B, et al. (2025) Deep learning-based assessment of missense variants in the COG4 gene presented with bilateral congenital cataract. BMJ open ophthalmology, 10(1).

Chen R, et al. (2025) ZSH-2208: A novel retinoid with potent anti-tumour effects on ESCC

stem cells via RAR?-TNFAIP3 axis. Clinical and translational medicine, 15(1), e70148.

Zhang Y, et al. (2025) Network pharmacology uncovers that secoisolariciresinol diglucoside ameliorate premature ovarian insufficiency via PI3K/Akt pathway. Scientific reports, 15(1), 1493.

Le Bas A, et al. (2025) Structure of WzxE the lipid III flippase for Enterobacterial Common Antigen polysaccharide. Open biology, 15(1), 240310.