

Resource Summary Report

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Database of Interacting Proteins (DIP)

RRID:SCR_003167

Type: Tool

Proper Citation

Database of Interacting Proteins (DIP) (RRID:SCR_003167)

Resource Information

URL: <http://dip.doe-mbi.ucla.edu/>

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Description: Database to catalog experimentally determined interactions between proteins combining information from a variety of sources to create a single, consistent set of protein-protein interactions that can be downloaded in a variety of formats. The data were curated, both, manually and also automatically using computational approaches that utilize the the knowledge about the protein-protein interaction networks extracted from the most reliable, core subset of the DIP data. Because the reliability of experimental evidence varies widely, methods of quality assessment have been developed and utilized to identify the most reliable subset of the interactions. This CORE set can be used as a reference when evaluating the reliability of high-throughput protein-protein interaction data sets, for development of prediction methods, as well as in the studies of the properties of protein interaction networks. Tools are available to analyze, visualize and integrate user's own experimental data with the information about protein-protein interactions available in the DIP database. The DIP database lists protein pairs that are known to interact with each other. By interact they mean that two amino acid chains were experimentally identified to bind to each other. The database lists such pairs to aid those studying a particular protein-protein interaction but also those investigating entire regulatory and signaling pathways as well as those studying the organization and complexity of the protein interaction network at the cellular level. Registration is required to gain access to most of the DIP features. Registration is free to the members of the academic community. Trial accounts for the commercial users are also available.

Abbreviations: DIP

Synonyms: , Database of Interacting Proteins, DIP, Database of Interacting Proteins (DIP)

Resource Type: analysis service resource, data analysis service, data or information resource, data repository, database, production service resource, service resource,

storage service resource

Defining Citation: [PMID:14681454](#)

Keywords: blast, cellular network, ligand-receptor complex, ligand, network, protein, protein interaction, protein ligand, protein-protein interaction, protein receptor, receptor, sequence, interaction, regulatory pathway, signaling pathway, protein binding, bio.tools, FASEB list

Funding: NIGMS

Availability: Free, Available for download, Freely available

Resource Name: Database of Interacting Proteins (DIP)

Resource ID: SCR_003167

Alternate IDs: OMICS_01905, nif-0000-00569, r3d100010882, biotools:dip

Alternate URLs: <https://dip.doe-mbi.ucla.edu/dip/Main.cgi>, <https://bio.tools/dip>, <https://doi.org/10.17616/R3431F>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260821T193658+0000

Ratings and Alerts

No rating or validation information has been found for Database of Interacting Proteins (DIP).

No alerts have been found for Database of Interacting Proteins (DIP).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 167 mentions in open access literature.

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

Wang R, et al. (2026) Comprehensive multi-omics analysis identifies cancer subtypes and prognostic signatures of hepatitis B virus-associated hepatocellular carcinoma. NPJ precision oncology, 10(1).

Li S, et al. (2026) DSS-PPI: a self-supervised graph learning framework for protein-protein interaction prediction via multimodal sequence semantics. BMC genomics, 27(1).

Schmitt O, et al. (2026) Proteomic Characterization of Spinal Cord Myelin in the Mouse. *ASN neuro*, 18(1), 2595945.

Alam A, et al. (2026) Targeting protein protein interactions and their modulators to enable new therapeutic strategies for human diseases. *NPJ systems biology and applications*, 12(1).

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

Li X, et al. (2025) Deep learning identification of novel autophagic protein-protein interactions and experimental validation of Beclin 2-Ubiquilin 1 axis in triple-negative breast cancer. *Oncology research*, 33(1), 67.

Al Ghafari M, et al. (2025) Key genes altered in glioblastoma based on bioinformatics (Review). *Oncology letters*, 29(5), 243.

Nogueira-Rodríguez A, et al. (2025) Towards a more accurate and reliable evaluation of machine learning protein-protein interaction prediction model performance in the presence of unavoidable dataset biases. *Journal of integrative bioinformatics*, 22(2).

Chen S, et al. (2025) DCMF-PPI: a protein-protein interaction predictor based on dynamic condition and multi-feature fusion. *BMC bioinformatics*, 26(1), 247.

Zhou S, et al. (2025) Predicting protein-protein interactions in microbes associated with cardiovascular diseases using deep denoising autoencoders and evolutionary information. *Frontiers in pharmacology*, 16, 1565860.

Narula K, et al. (2024) Combining extracellular matrix proteome and phosphoproteome of chickpea and meta-analysis reveal novel proteoforms and evolutionary significance of clade-specific wall-associated events in plant. *Plant direct*, 8(3), e572.

Murdoch E, et al. (2024) Hypothesis: evidence that the PRS gene products of *Saccharomyces cerevisiae* support both PRPP synthesis and maintenance of cell wall integrity. *Current genetics*, 70(1), 6.

Chen H, et al. (2024) Bioinformatic Resources for Exploring Human-virus Protein-protein Interactions Based on Binding Modes. *Genomics, proteomics & bioinformatics*, 22(5).

Han SY, et al. (2024) Identifying Candidate Polyphenols Beneficial for Oxidative Liver Injury through Multiscale Network Analysis. *Current issues in molecular biology*, 46(4), 3081.

Pan L, et al. (2024) A protein network refinement method based on module discovery and biological information. *BMC bioinformatics*, 25(1), 157.

Kim GB, et al. (2024) Identifying Herbal Candidates and Active Compounds for Psoriasis Through Multiscale Network Analysis. *Current issues in molecular biology*, 46(11), 11993.

Kim K, et al. (2024) Differential gene expression and pathway analysis in growth hormone-secreting pituitary tumors according to granulation pattern. *Frontiers in oncology*, 14, 1423606.

Wang X, et al. (2023) Cross-Talk between N6-Methyladenosine and Their Related RNAs Defined a Signature and Confirmed m6A Regulators for Diagnosis of Endometriosis. *International journal of molecular sciences*, 24(2).

Luo L, et al. (2023) Identification of kukoamine A as an anti-osteoporosis drug target using network pharmacology and experiment verification. *Molecular medicine (Cambridge, Mass.)*, 29(1), 36.

Jiang Y, et al. (2022) Senkyunolide H protects PC12 cells from OGD/R-induced injury via cAMP-PI3K/AKT signaling pathway. *Journal of ethnopharmacology*, 282, 114659.