

Resource Summary Report

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PatchDock

RRID:SCR_017589

Type: Tool

Proper Citation

PatchDock (RRID:SCR_017589)

Resource Information

URL: <https://bioinfo3d.cs.tau.ac.il/PatchDock/>

Proper Citation: PatchDock (RRID:SCR_017589)

Description: Web server for molecular docking. Performs structure prediction of protein–protein and protein–small molecule complexes. Molecular docking algorithm based on shape complementarity principles.

Resource Type: data access protocol, simulation software, software application, software resource, web service

Defining Citation: [PMID:15980490](#)

Keywords: Molecular, docking, structure, prediction, protein, molecule, shape, complex, bio.tools

Funding: Hermann Minkowski-Minerva Center for Geometry at Tel Aviv University ;
Israel Science Foundation ;
Israeli Ministry of Science ;
National Cancer Institute ;
NIH

Availability: Free, Freely available

Resource Name: PatchDock

Resource ID: SCR_017589

Alternate IDs: biotools:patchdock

Alternate URLs: <https://bio.tools/patchdock>

Record Creation Time: 20220129T080336+0000

Record Last Update: 20260905T132826+0000

Ratings and Alerts

No rating or validation information has been found for PatchDock.

No alerts have been found for PatchDock.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 104 mentions in open access literature.

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

Chaudhary A, et al. (2026) Arsenic trioxide allosterically inhibits human telomerase, validated by in-silico and in-vitro cancer and non cancer cell lines. Scientific reports, 16(1), 5383.

Hassan M, et al. (2025) Unveiling Let-7a's Therapeutic Role in Ewing Sarcoma Through Molecular Docking and Deformation Energy Analysis. Current issues in molecular biology, 47(11).

Ezediuno LO, et al. (2025) Developing cancer vaccine with carcinoembryonic antigen and IGF-1R as immunostimulants using immunoinformatics approach. Korean journal of clinical oncology, 21(1), 20.

Zheng Y, et al. (2025) Exploring the Efficacy and Target Genes of Atractylodes Macrocephala Koidz Against Alzheimer's Disease Based on Multi-Omics, Computational Chemistry, and Experimental Verification. Current issues in molecular biology, 47(2).

Siddiki AZ, et al. (2025) Development of a multi-epitope chimeric vaccine in silico against Babesia bovis, Theileria annulata, and Anaplasma marginale using computational biology tools and reverse vaccinology approach. PloS one, 20(1), e0312262.

Das S, et al. (2024) Encapsulation of Apium graveolens essential oil into chitosan nanobiopolymer for protection of stored rice against Fusarium verticillioides and fumonisins contamination. Heliyon, 10(9), e29954.

Heidari Horestani M, et al. (2024) The clock gene BHLHE40 and atypical CCNG2 control androgen-induced cellular senescence as a novel tumor suppressive pathway in prostate cancer. Journal of experimental & clinical cancer research : CR, 43(1), 174.

Alves DA, et al. (2024) Rho GTPase activating protein 21-mediated regulation of prostate cancer associated 3 gene in prostate cancer cell. Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas, 57, e13190.

Lee JR, et al. (2024) Advancing Breast Cancer Therapeutics: Targeted Gene Delivery Systems Unveiling the Potential of Estrogen Receptor-Targeting Ligands. Biomaterials

research, 28, 0087.

Mishra A, et al. (2024) HRAMS Proteomics Insights on the Anti-Filarial Effect of *Ocimum sanctum*: Implications in Phytochemical-Based Drug-Targeting and Designing. *Proteomes*, 13(1).

Cui J, et al. (2023) Glycosylated and Succinylated Macrocyclic Lactones with Amyloid- β -Aggregation-Regulating Activity from a Marine *Bacillus* sp. *Marine drugs*, 21(2).

Sharma AD, et al. (2023) Essential Oil Derived from Underutilized Plants *Cymbopogon khasianus* Poses Diverse Biological Activities against "Aspergillosis" and "Mucormycosis". *Russian agricultural sciences*, 49(2), 172.

Rafi MO, et al. (2023) A subunit vaccine against pneumonia: targeting *Streptococcus pneumoniae* and *Klebsiella pneumoniae*. *Network modeling and analysis in health informatics and bioinformatics*, 12(1), 21.

Banerjee A, et al. (2023) Emergence of a unique SARS-CoV-2 Delta sub-cluster harboring a constellation of co-appearing non-Spike mutations. *Journal of medical virology*, 95(1), e28413.

Motamedi H, et al. (2023) In silico designing and immunoinformatics analysis of a novel peptide vaccine against metallo-beta-lactamase (VIM and IMP) variants. *PloS one*, 18(7), e0275237.

Ruiz-Ciancio D, et al. (2023) Selection of a novel cell-internalizing RNA aptamer specific for CD22 antigen in B cell acute lymphoblastic leukemia. *Molecular therapy. Nucleic acids*, 33, 698.

Kandhavelu J, et al. (2023) A novel EGFR Inhibitor, HNPMI regulates apoptosis and oncogenesis by modulating BCL-2/BAX and p53 in colon cancer. *British journal of pharmacology*.

Ahmad V, et al. (2023) Synthesis, Characterization, and Evaluation of Antimicrobial Efficacy of Reduced Graphene-ZnO-Copper Nanocomplex. *Antibiotics (Basel, Switzerland)*, 12(2).

Laskar FS, et al. (2023) An In silico Approach towards Finding the Cancer-Causing Mutations in Human MET Gene. *International journal of genomics*, 2023, 9705159.

Elmetwalli A, et al. (2023) Diarylheptanoids/sorafenib as a potential anticancer combination against hepatocellular carcinoma: the p53/MMP9 axis of action. *Naunyn-Schmiedeberg's archives of pharmacology*, 396(10), 2501.