Resource Summary Report

Generated by PRECISE-TBI on Sep 2, 2026

HDOCK server

RRID:SCR_024799
Type: Tool

Proper Citation

HDOCK server (RRID:SCR_024799)

Resource Information

URL: http://hdock.phys.hust.edu.cn/

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Description: Web server for protein-protein and protein-DNA/RNA docking based on hybrid strategy. With input information for receptor and ligand molecules either amino acid sequences or Protein Data Bank structures, the server automatically predicts their interaction through hybrid algorithm of template-based and template-free docking.

Synonyms: HDOCK

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

Defining Citation: PMID:28521030, PMID:32269383

Keywords: Web server, protein-protein docking, protein-DNA/RNA docking, amino acid sequences, Protein Data Bank structures, receptor and ligand molecules input information, interaction prediction,

Funding: Huazhong University of Science and Technology ;
National Key Research and Development Program of China ;
National Natural Science Foundation of China

Availability: Free, Freely available

Resource Name: HDOCK server

Resource ID: SCR_024799

Record Creation Time: 20231220T050231+0000

Record Last Update: 20260829T183344+0000

Ratings and Alerts

No rating or validation information has been found for HDOCK server.

No alerts have been found for HDOCK server.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 566 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Bhattacharya A, et al. (2026) Exosomal misfolded ?1-antitrypsin triggers a cytosolic GRP78-dependent unfolded protein response and pro-survival signaling in pre-metastatic tissues. The Journal of biological chemistry, 302(8), 113282.

Yang Q, et al. (2026) Molecular mechanism of resistance to lonafarnib conferred by mutations in the cysteine-rich region of respiratory syncytial virus fusion glycoprotein and discovery of a lonafarnib-derived antiviral PROTAC. Journal of virology, 100(1), e0148725.

Naveed M, et al. (2026) Immunoinformatics-based design and evaluation of a multi-epitope vaccine against Vibrio fluvialis. Scientific reports, 16(1), 4100.

Yang W, et al. (2026) Suppression of ASNS expression by VHL-mediated ubiquitination hinders the progression of renal cell carcinoma through enhancing JUP expression and inhibiting PI3K-AKT and MAPK pathways. International journal of biological sciences, 22(6), 3048.

Chen Y, et al. (2026) PDIA6 promotes the cell proliferation of ESCC by enhancing the disulfide bond formation in TRAF4. Cellular & molecular biology letters, 31(1).

Wang Z, et al. (2026) Cuproptosis-related gene signatures define immune subtypes and predict prognosis in gastric cancer. Frontiers in molecular biosciences, 13, 1746613.

Farhani I, et al. (2026) Design and immunogenicity of a recombinant Saccharomyces boulardii secreting the P2-VP8 subunit rotavirus vaccine. Scientific reports, 16(1), 6932.

Li Z, et al. (2026) The role of CUEDC1 in suppressing JAK1/STAT3 signaling pathway in esophageal cancer. Scientific reports, 16(1).

Ouyang J, et al. (2026) Macrophage FTO deficiency accelerates atherosclerosis via PACS2-mediated activation of the PPAR? lipid signaling pathway. Journal of translational medicine, 24(1).

Feng Y, et al. (2026) X-Linked USP11 Drives Depression-Like Behaviors by Stabilizing CK2? and Disrupting Mitochondrial Function. CNS neuroscience & therapeutics, 32(6), e70934.

Aceves-Hernández JM, et al. (2026) In Silico Study of Anti-CD40 DNA Aptamers as Vaccine Adjuvants for Chickens. International journal of molecular sciences, 27(9).

Zhamalbekova A, et al. (2026) Effect of HIV-1 subtype-specific Tat protein polymorphisms on Tat-TAR interaction. PloS one, 21(4), e0346629.

Kircheis R, et al. (2026) In Silico Modeling of Structural Compatibility and Alignment Between Viral Class I Fusion Cores and Human TLR4/MD-2. International journal of molecular sciences, 27(12).

Tang S, et al. (2026) SCFAs inhibited NETosis to alleviate lung inflammation in COPD: a potential role for GPR43. Respiratory research, 27(1).

Mei W, et al. (2026) PARP1-BCAT2 axis upregulates ABCG1 via histone lactylation to drive acquired PARP inhibitor resistance in prostate cancer. Journal of experimental & clinical cancer research : CR, 45(1).

Ma K, et al. (2026) A POSTN+ CAF/APOE+ TAM Axis is Associated with Tumor Progression and Potential Immunotherapy Resistance in Laryngeal Squamous Cell Carcinoma. International journal of general medicine, 19, 583478.

Chen W, et al. (2026) In Silico Structural Characterization and Hypoglycemic Potential of a Novel Fucose-Specific Lectin (MEP5) from Morchella esculenta. Foods (Basel, Switzerland), 15(9).

Li JH, et al. (2026) Salidroside Ameliorates Polycystic Ovary Syndrome in Mice by Regulating the AKT/NF-?B/NLRP3-HAS2 Axis. Food science & nutrition, 14(4), e71692.

Yang F, et al. (2026) Inflammatory memory disables a DDR1 degradation checkpoint to enable pancreatic cancer growth. bioRxiv : the preprint server for biology.

Koparir A, et al. (2026) Clinical and genetic heterogeneity of syndromic hearing loss and its non-syndromic hearing loss mimics. Molecular medicine (Cambridge, Mass.), 32(1).