

Resource Summary Report

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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: web service, data access protocol, software resource

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

Availability: Free, Freely available

Resource Name: HDOCK server

Resource ID: SCR_024799

Record Creation Time: 20231220T050231+0000

Record Last Update: 20260804T043821+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 304 mentions in open access literature.

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

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

Pasha AVK, et al. (2026) Immunoinformatics-Based Multi-Epitope Vaccine Targeting *Helicobacter Pylori*. *Cancer reports (Hoboken, N.J.)*, 9(1), e70441.

Li Y, et al. (2026) Calpain-1 Potentiates Periodontal Regeneration via PHLPP1-ERK-Driven Osteogenesis in Periodontal Ligament Stem Cells. *International dental journal*, 76(1), 109309.

Wu K, et al. (2026) Deciphering the role of ThHsf1 in the differential expression regulation of laccase isozymes in the white-rot fungus *Trametes hirsuta*. *Microbiology spectrum*, 14(1), e0100425.

Li M, et al. (2026) The novel endogenous micropeptide XLH-36 binds Gemin4 to promote triple-negative breast cancer metastasis. *Oncogene*, 45(2), 264.

Pan J, et al. (2025) SQLE-catalyzed squalene metabolism promotes mitochondrial biogenesis and tumor development in K-ras-driven cancer. *Cancer letters*, 616, 217586.

Chen Q, et al. (2025) A moonlighting function of tumoral interleukin-1 β precursor promotes metastasis via RACK1-mediated actin remodeling. *Nature communications*, 16(1), 10148.

Shu S, et al. (2025) Histone Deacetylase 6 Controls Atrial Fibrosis and Remodeling in Postinfarction Mice Through the Modulation of Wnt3a/GSK-3 β Signaling. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(10), e70650.

Lu C, et al. (2025) Mediator regulates transcriptional termination through crosstalk with pre-mRNA 3' end processing factors. *Molecular cell*, 85(11), 2147.

An Y, et al. (2025) USP18 Promotes Cholesterol Efflux and Mitigates Atherosclerosis by Deubiquitinating ABCG1. *Journal of cellular and molecular medicine*, 29(1), e70320.

Ortega-Vallbona R, et al. (2025) Computational Characterization of the Interaction of CARD Domains in the Apoptosome. *Biochemistry*, 64(2), 401.

Shekar PV, et al. (2025) Aptamer Development for SARS-CoV-2 and Omicron Variants Using the Spike Protein Receptor Binding Domain as a Potential Diagnostic Tool and Therapeutic Agent. *Biomolecules*, 15(6).

Ge W, et al. (2025) Comprehensive network pharmacology and experimental study to investigate the effect and mechanism of solasonine on breast carcinoma treatment. *Cancer cell international*, 25(1), 49.

Sargsyan T, et al. (2025) Synthesis and Antifungal Activity of Fmoc-Protected 1,2,4-Triazolyl- α -Amino Acids and Their Dipeptides Against *Aspergillus* Species. *Biomolecules*, 15(1).

Hu S, et al. (2025) PMEPA1 Binds NEDD4L to Inhibit the Malignant Progression of Multiple Myeloma by Inactivating Wnt/ β -Catenin Signaling. *Cell biochemistry and biophysics*, 83(3), 3971.

Ou L, et al. (2025) LPS mediates cuproptosis and inflammation in THP-1 macrophages through HKDC1. *Acta biochimica et biophysica Sinica*, 57(12), 1953.

Low CF, et al. (2025) Molecular dynamics simulations reveal mechanistic insights into aptamer-induced structural rearrangements in viral capsid proteins. *Journal of computer-aided molecular design*, 39(1), 57.

Ma S, et al. (2025) Enhancer transcription profiling reveals an enhancer RNA-driven ferroptosis and new therapeutic opportunities in prostate cancer. *Signal transduction and targeted therapy*, 10(1), 87.

Wang X, et al. (2025) Unraveling the causal relationship and underlying mechanisms between cathepsins on liver cancer: findings from mendelian randomization and bioinformatics analysis. *Discover oncology*, 16(1), 277.

Liu Q, et al. (2025) CCL20/CXCL5 Drives Crosstalk Between Anaplastic Thyroid Cancer Stem Cells and Tumor-Associated Macrophages to Promote Tumor Progression. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(17), e2405399.