Resource Summary Report

Generated by kravitz2 on Sep 1, 2026

HDOCK server

RRID:SCR_024799
Type: Tool

Proper Citation

HDOCK server (RRID:SCR_024799)

Resource Information

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

Proper Citation: HDOCK server (RRID:SCR_024799)

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 kravitz2 .

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.

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).

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

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).

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.

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

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

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

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.

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).

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).

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.

Kuin RCM, et al. (2026) PyTEA-O: a Python implementation of Two-Entropies Analysis for protein sequence variation analysis. Bioinformatics (Oxford, England), 42(2).

Qiao Z, et al. (2026) Clusterin maintains hemostatic equilibrium by stabilizing VWF multimers in plasma. Blood, 147(22), 2682.

Shi W, et al. (2026) Targeting FANCD2 to overcome enzalutamide resistance in prostate cancer. Cancer & metabolism, 14(1).

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

Wang Z, et al. (2026) Lycium barbarum Polysaccharide and Chlorogenic Acid Ameliorate LPS-Induced Acute Lung Injury via the NF-?B Signaling Mediated Multi-Targets. Food science & nutrition, 14(1), e71438.

Su Y, et al. (2026) Low KIF26B Expression Reduces Paclitaxel Resistance and Predicts Good Prognosis in Ovarian Cancer. Current issues in molecular biology, 48(2).