

Resource Summary Report

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HPEPDOCK Server

RRID:SCR_018561

Type: Tool

Proper Citation

HPEPDOCK Server (RRID:SCR_018561)

Resource Information

URL: <http://huanglab.phys.hust.edu.cn/hpepdock/>

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Description: Web server for blind peptide protein docking based on hierarchical algorithm. Blind peptide-protein docking by fast modeling of peptide conformations and global sampling of binding orientations.

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

Defining Citation: [PMID:29746661](#)

Keywords: Blind peptide protein docking, peptide conformation modeling, global sampling, blind orientation, protein, modeling, docking, bio.tools

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: HPEPDOCK Server

Resource ID: SCR_018561

Alternate IDs: biotools:hpepdock

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

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260912T195902+0000

Ratings and Alerts

No rating or validation information has been found for HPEPDOCK Server.

No alerts have been found for HPEPDOCK Server.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 73 mentions in open access literature.

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

Kim S, et al. (2026) Self-boosting targeted anticancer therapy via cancer cell self-reprogramming with GGT-targeting oxidative stress nanoamplifiers. *Theranostics*, 16(4), 1925.

Al-Madhagi HA, et al. (2026) Engineering of the Melanoma Inhibitor of Apoptosis (ML-IAP) Anticancer Peptide Through Comprehensive In Silico Approaches. *Human mutation*, 2026, 9356098.

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).

Martins FG, et al. (2026) A Review of Current Computational Tools for Peptide-Protein Docking. *Journal of computational chemistry*, 47(5), e70328.

Ramalingam PS, et al. (2025) Unveiling reverse vaccinology and immunoinformatics toward Saint Louis encephalitis virus: a ray of hope for vaccine development. *Frontiers in immunology*, 16, 1576557.

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.

Zahraei M, et al. (2025) In silico design of a multi-epitope vaccine against the triple negative breast cancer. *Scientific reports*, 15(1), 42425.

Ongtanasup T, et al. (2025) Identifying a Novel BCL2L1-Targeting Peptide from Porcine Placenta for Lymphoma Therapy. *ACS omega*, 10(51), 63250.

Jiang Y, et al. (2025) Discovery of Deer Antler-Derived Antioxidant Peptides Through Computational and Cell-Based Approaches. *Antioxidants (Basel, Switzerland)*, 14(10).

Wang S, et al. (2025) AGDMP1 alleviates insulin resistance by modulating heat shock protein 60-mediated IRS-1/AKT/GLUT4 pathway and adipose inflammation: A potential therapeutic peptide for gestational diabetes mellitus. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(2), e70339.

- Mahafujul Alam SS, et al. (2025) Immunoinformatics based designing of a multi-epitope cancer vaccine targeting programmed cell death ligand 1. *Scientific reports*, 15(1), 12420.
- Baghaei F, et al. (2025) Rational Design and In Silico Evaluation of a Multiepitope Vaccine Targeting the uPAR for Cancer Immunotherapy. *Journal of immunology research*, 2025, 9126083.
- Souza-Silva TG, et al. (2025) Self and parasite-derived peptides selected upon DERAA-bearing HLA-DRB1 alleles activate CD4+ T cells from Chagas cardiomyopathy patients and are associated with ventricular dysfunction. *Frontiers in immunology*, 16, 1527115.
- Atwal MS, et al. (2025) Accumulation of TDP-43 causes karyopherin- β 4 pathology that characterises amyotrophic lateral sclerosis. *Frontiers in neuroscience*, 19, 1558227.
- Lee LT, et al. (2025) Directed Evolution of AtMP2 Peptide: Unlocking Enhanced Antibacterial Potential from *Anabaena testudineus*. *Molecules (Basel, Switzerland)*, 30(23).
- Sousa C, et al. (2025) In Silico and In Vitro Potential Antifungal Insights of Insect-Derived Peptides in the Management of *Candida* sp. *Infections. International journal of molecular sciences*, 26(15).
- Lietz S, et al. (2025) The antimicrobial peptide Angie 5 inhibits TcdA and TcdB from *Clostridioides difficile*. *Cellular and molecular life sciences : CMLS*, 82(1), 265.
- Peng W, et al. (2025) Structure-Guided Design of Cyclic Peptide: A Potent Inhibitor Targeting PD-1/PD-L1 Axis with Antitumor Activity. *International journal of molecular sciences*, 26(23).
- Fitriani A, et al. (2025) Investigation of Angiotensin I-Converting Enzyme Inhibitory Peptides Derived from Germinated Lamtoro Gung Using In Vitro and In Silico Approaches. *Preventive nutrition and food science*, 30(6), 607.
- Nonog ZL, et al. (2025) Design and evaluation of a multi-epitope subunit vaccine against human norovirus using an immunoinformatics approach. *Osong public health and research perspectives*, 16(3), 236.