

Resource Summary Report

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rDock

RRID:SCR_002838

Type: Tool

Proper Citation

rDock (RRID:SCR_002838)

Resource Information

URL: <http://rdock.sourceforge.net/>

Proper Citation: rDock (RRID:SCR_002838)

Description: A fast and versatile Open Source docking software program that can be used to dock small molecules against proteins and nucleic acids.

Resource Type: software resource

Defining Citation: [PMID:24722481](#)

Keywords: standalone software

Availability: Free, Freely available, Available for download

Resource Name: rDock

Resource ID: SCR_002838

Alternate IDs: OMICS_03835

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260725T190532+0000

Ratings and Alerts

No rating or validation information has been found for rDock.

No alerts have been found for rDock.

Data and Source Information

Usage and Citation Metrics

We found 113 mentions in open access literature.

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

Ferla MP, et al. (2025) Fragmenstein: predicting protein-ligand structures of compounds derived from known crystallographic fragment hits using a strict conserved-binding-based methodology. *Journal of cheminformatics*, 17(1), 4.

Carvajal-Patiño JG, et al. (2025) RNAmigos2: accelerated structure-based RNA virtual screening with deep graph learning. *Nature communications*, 16(1), 2799.

Wang X, et al. (2025) A novel approach for target deconvolution from phenotype-based screening using knowledge graph. *Scientific reports*, 15(1), 2414.

Wang B, et al. (2025) Tenascin-R aggravates A β production in the perforant pathway by regulating Nav1.6 activity in APP/PS1 mice. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(9), e70633.

Matsoukas MT, et al. (2025) Design of Small Non-Peptidic Ligands That Alter Heteromerization between Cannabinoid CB1 and Serotonin 5HT2A Receptors. *Journal of medicinal chemistry*, 68(1), 261.

Fan Y, et al. (2025) Isovitexin targets SIRT3 to prevent steroid-induced osteonecrosis of the femoral head by modulating mitophagy-mediated ferroptosis. *Bone research*, 13(1), 18.

Debnath A, et al. (2025) Identification of novel cyclin-dependent kinase 4/6 inhibitors from marine natural products. *PloS one*, 20(1), e0313830.

Yin D, et al. (2025) Adipocytes-induced ANGPTL4/KLF4 axis drives glycolysis and metastasis in triple-negative breast cancer. *Journal of experimental & clinical cancer research : CR*, 44(1), 192.

Natsumoto B, et al. (2025) Identification of Potential Therapeutic Agents for Type I Interferonopathy Using iPSC-Based Disease Modeling. *Journal of clinical immunology*, 45(1), 140.

Martínez-Cartró M, et al. (2025) Discovering Uncharted Binding Pockets on E3 Ligases Leads to the Identification of FBW7 Allosteric Modulators. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(39), e06068.

Ergün Ö, et al. (2025) Characterization of Ligand Binding in Human Serum Albumin from Atomistic Energy Transfer Simulations. *Small methods*, 9(12), e01820.

Patel N, et al. (2025) Serum-MiR-CanPred: deep learning framework for pan-cancer classification and miRNA-targeted drug discovery. *RNA biology*, 22(1), 1.

Battle E, et al. (2025) Discovery of a reversible ALDH1A3 inhibitor through a consensus docking-based virtual screening study. *Journal of computer-aided molecular design*, 39(1), 72.

Arhin G, et al. (2025) Structure guided discovery of small molecule ligands targeting the oncomiR-1 NPSL2 hairpin. *Scientific reports*, 15(1), 29841.

Deepthi V, et al. (2025) Computationally designed multi-epitope vaccine construct targeting the SARS-CoV-2 spike protein elicits robust immune responses in silico. *Scientific reports*, 15(1), 9562.

García-Rivas G, et al. (2025) Cannabidiol Prevents Heart Failure Dysfunction and Remodeling Through Preservation of Mitochondrial Function and Calcium Handling. *JACC. Basic to translational science*, 10(6), 800.

Bajusz D, et al. (2025) Evaluation of single-template ligand-based methods for the discovery of small-molecule nucleic acid binders. *Briefings in bioinformatics*, 26(6).

Gao S, et al. (2025) Activation of PI3K-AKT pathway prevents steroid-induced osteonecrosis of the femoral head via inhibiting Cuproptosis. *Scientific reports*, 15(1), 8950.

Greer RA, et al. (2025) TREM2-apoE3 interactions and Alzheimer's disease: Molecular and structural insights and effects of TREM2 R47H and apoE4 variants. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(10), e70729.

Cheng X, et al. (2025) The quantitative detection method employing a combination of high-affinity antibodies targeting PCT. *Biochemistry and biophysics reports*, 43, 102091.