Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 24, 2025

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

Funding:

Resource Name: rDock

Resource ID: SCR_002838

Alternate IDs: OMICS_03835

Record Creation Time: 20220129T080215+0000

Record Last Update: 20250420T014125+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

Source: SciCrunch Registry

Usage and Citation Metrics

We found 96 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.

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.

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

Raubenolt B, et al. (2024) Generalized open-source workflows for atomistic molecular dynamics simulations of viral helicases. GigaScience, 13.

Loeffler HH, et al. (2024) Reinvent 4: Modern AI-driven generative molecule design. Journal of cheminformatics, 16(1), 20.

Lee CJ, et al. (2024) ELK3 destabilization by speckle-type POZ protein suppresses prostate cancer progression and docetaxel resistance. Cell death & disease, 15(4), 274.

Lee GE, et al. (2024) SPOP-mediated RIPK3 destabilization desensitizes LPS/sMAC/zVAD-induced necroptotic cell death. Cellular and molecular life sciences : CMLS, 81(1), 451.

Comajuncosa-Creus A, et al. (2024) Comprehensive detection and characterization of human druggable pockets through binding site descriptors. Nature communications, 15(1), 7917.

Tan LH, et al. (2024) RmsdXNA: RMSD prediction of nucleic acid-ligand docking poses using machine-learning method. Briefings in bioinformatics, 25(3).

Cubero E, et al. (2024) Discovery of allosteric regulators with clinical potential to stabilize alpha-L-iduronidase in mucopolysaccharidosis type I. PloS one, 19(5), e0303789.

Zhang LJ, et al. (2024) Identification of lipid senolytics targeting senescent cells through ferroptosis induction. bioRxiv : the preprint server for biology.

Borges KCM, et al. (2024) New antibacterial candidates against Acinetobacter baumannii discovered by in silico-driven chemogenomics repurposing. PloS one, 19(9), e0307913.

Khachatryan H, et al. (2024) Computational evaluation and benchmark study of 342 crystallographic holo-structures of SARS-CoV-2 Mpro enzyme. Scientific reports, 14(1), 14255.

Yao L, et al. (2024) mRNA-seq-based analysis predicts: AEG-1 is a therapeutic target and immunotherapy biomarker for pan-cancer, including OSCC. Frontiers in immunology, 15, 1484226.

Barroso M, et al. (2024) Use of the Novel Site-Directed Enzyme Enhancement Therapy (SEE-Tx) Drug Discovery Platform to Identify Pharmacological Chaperones for Glutaric Acidemia Type 1. Journal of medicinal chemistry, 67(19), 17087.

Cao Y, et al. (2023) Novel hKDR mouse model depicts the antiangiogenesis and apoptosis-promoting effects of neutralizing antibodies targeting vascular endothelial growth factor receptor 2. Cancer science, 114(1), 115.

Olenginski LT, et al. (2023) Virtual Screening of Hepatitis B Virus Pre-Genomic RNA as a Novel Therapeutic Target. Molecules (Basel, Switzerland), 28(4).

Hagg A, et al. (2023) Open-Source Machine Learning in Computational Chemistry. Journal of chemical information and modeling, 63(15), 4505.