

Resource Summary Report

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AutoDock

RRID:SCR_012746

Type: Tool

Proper Citation

AutoDock (RRID:SCR_012746)

Resource Information

URL: <http://autodock.scripps.edu/>

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Description: Software suite of automated docking tools. Designed to predict how small molecules, such as substrates or drug candidates, bind to receptor of known 3D structure. AutoDock consist of AutoDock 4 and AutoDock Vina. AutoDock 4 consists of autodock to perform docking of ligand to set of grids describing target protein, and autogrid to pre calculate these grids.

Abbreviations: autodock

Resource Type: software resource

Defining Citation: [PMID:19399780](#)

Keywords: Small molecules receptor binding, automated docking tools, 3D structure, AutoDock 4, AutoDock Vina, ligand, docking

Availability: Free, Available for download, Freely available

Resource Name: AutoDock

Resource ID: SCR_012746

Alternate IDs: OMICS_01594, biotools:autodock

Alternate URLs: <https://bio.tools/autodock>, <https://sources.debian.org/src/autodock/>

Record Creation Time: 20220129T080312+0000

Record Last Update: 20260801T190439+0000

Ratings and Alerts

No rating or validation information has been found for AutoDock.

No alerts have been found for AutoDock.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11935 mentions in open access literature.

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

Pan J, et al. (2026) Cannabidiol suppresses emergency MDSCs generation by disturbing EEF1B2-mediated C/EBP β protein synthesis in colorectal adenomas. Journal for immunotherapy of cancer, 14(1).

Shi D, et al. (2026) Gut microbiota-derived tryptophan metabolite indole-3-carboxaldehyde enhances intestinal barrier function via aryl hydrocarbon receptor/AMP-activated protein kinase signaling activation. Animal bioscience, 39(1), 250225.

Choi J, et al. (2026) Oxidative hypoxia drives TGF- β 1-induced fibrosis under normoxia. Redox biology, 89, 103947.

Lv X, et al. (2026) Blautia coccoides-derived metabolite trimethylamine-N-oxide exacerbates Alzheimer's disease progression via targeting HIF1 α signaling. Gut microbes, 18(1), 2605768.

Wang Z, et al. (2026) Integrated Network Pharmacology, Single-Cell Transcriptomics Unveil the Mechanistic Role of Morusin in Aortic Dissection. Journal of cellular and molecular medicine, 30(1), e70971.

Xiang F, et al. (2026) Integrative multiomics analysis reveals the ameliorative effects of Xiasangju on metabolic dysfunction-associated steatohepatitis. Chinese medicine, 21(1), 3.

Zhang P, et al. (2026) Resurrection and characterization of ancestral xylose transporters enhance the capability of xylose uptake in the mixed sugar co-fermentation of Recombinant Saccharomyces cerevisiae. Bioresources and bioprocessing, 13(1), 1.

Gao H, et al. (2026) Hydrogen-deuterium exchange reveals catalytically linked protein flexibility in myoglobin-mediated intramolecular C(sp³)-H activation. Protein science : a publication of the Protein Society, 35(1), e70410.

Manuel M, et al. (2026) Exploring a GE/Nafion/Co-MOF nanosheets/CuO NPs/GOx powered electrochemical biosensor for ultrasensitive detection of rebaudioside A. Nanoscale advances, 8(1), 167.

Oh KK, et al. (2026) A roadmap to unveil the mechanism(s) of natural indole-derived molecules against NAFLD-derived HCC via systems pharmacology. *Translational oncology*, 63, 102618.

Zhang Y, et al. (2026) Schisandrin B Targets PXR to Enhance Bile Acid Metabolism and Alleviate ANIT-Induced Cholestatic Liver Injury via Dual Pathways. *International journal of biological sciences*, 22(1), 387.

Ben Attia T, et al. (2026) Nephroprotective Potential of *Olea europaea* Leaf Extract Against Combined Noise and Toluene-Induced Oxidative and Histopathological Renal Injuries in Wistar Rats. *Chemistry & biodiversity*, 23(1), e02857.

Brezinova M, et al. (2026) Identification of potent high-affinity secondary nucleation inhibitors of A β 42 aggregation from an ultra-large chemical library using deep docking. *Molecular systems biology*, 22(1), 69.

Zhou P, et al. (2026) Exploring the role of cytochrome P450 family 1 subfamily B member 1 and quercetin in modulating neuropathic pain after spinal cord injury. *Molecular medicine reports*, 33(1).

Yang S, et al. (2026) EM2, a Natural Product MST1/2 Kinase Activator, Suppresses Non-Small Cell Lung Cancer via Hippo Pathway Activation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(1), e10508.

Wakid MH, et al. (2026) Kaempferol activity on *Cryptosporidium parvum* infection in an experimentally infected immunocompromised mouse model: In silico and in vivo investigations. *Pharmaceutical biology*, 64(1), 27.

Martins MP, et al. (2026) A disulfide redox switch mechanism regulates glycoside hydrolase function. *Nature communications*, 17(1), 45.

Yang M, et al. (2026) Dihydroalterperyleneol from endophytic fungus *Alternaria semiverrucosa* and its antitumour activity uncovered by transcriptome analysis, molecular docking and molecular dynamics simulations. *Molecular medicine reports*, 33(1).

Xu J, et al. (2026) PINK1/Parkin promotes liver regeneration via Sigma-1 ubiquitination to inhibit ER-Mitochondrial calcium transfer. *Theranostics*, 16(3), 1410.

Kim RK, et al. (2026) A novel TM4SF4-targeting therapeutic antibody candidate with antitumor activity by blocking IGF1R and CD44 signaling and downregulating PD-L1 and B7-H4. *Theranostics*, 16(4), 1762.