

Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 2026

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: 20260725T190739+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 [kravitz2](#).

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.

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).

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.

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.