

Resource Summary Report

Generated by [RRID](#) on Aug 4, 2026

AutoDockTools

RRID:SCR_026401

Type: Tool

Proper Citation

AutoDockTools (RRID:SCR_026401)

Resource Information

URL: <https://autodocksuite.scripps.edu/adt/>

Proper Citation: AutoDockTools (RRID:SCR_026401)

Description: Software graphical user interface to help to set up which bonds will be treated as rotatable in the ligand and to analyze dockings. Used for automated docking with selective receptor flexibility. Designed to predict how small molecules, such as substrates or drug candidates, bind to receptor of known 3D structure.

Abbreviations: ADT

Synonyms: AutoDockTools: the Graphical User Interface for AutoDock

Resource Type: software resource, software application

Defining Citation: [PMID:19399780](#)

Keywords: automated docking, selective receptor flexibility, predict binding, bind to receptor of known 3D structure, ligand, analyze dockings

Funding: NIGMS RO1 GM069832

Availability: Free, Available for download, Freely available

Resource Name: AutoDockTools

Resource ID: SCR_026401

Alternate URLs: <https://autodock.scripps.edu/>

Record Creation Time: 20250208T060343+0000

Record Last Update: 20260801T191351+0000

Ratings and Alerts

No rating or validation information has been found for AutoDockTools .

No alerts have been found for AutoDockTools .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1612 mentions in open access literature.

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

Chiang YC, et al. (2026) Multi-Omics and Single-Cell Dissection of Exostosin Glycosyltransferases (EXT1/EXT2) Reveals Divergent Oncogenic Roles and Therapeutic Vulnerabilities in Gliomas. *Journal of Cancer*, 17(1), 177.

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.

Pan L, et al. (2026) tRNA-Derived Fragment tRF-22 Promotes Immunosuppression by Inhibiting HnRNPAB Ubiquitination in Esophageal Squamous Cell Carcinoma. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(1), e05806.

Zhao Q, et al. (2026) Mafu Yishen Formula ameliorates membranous nephropathy by promotion of regulatory T cell differentiation: a multi-omics study. *Chinese medicine*, 21(1), 5.

Zhou Z, et al. (2026) Chromosome-level genome provides novel insights into the starch metabolism regulation and evolutionary history of *Tetraselmis helgolandica*. *Journal of advanced research*, 79, 251.

Capucho LR, et al. (2026) In Silico Design and Validation of a Novel HPPD-Inhibiting Herbicide Candidate Based on Benzofuran and Arylthioacetic Acid Scaffolds. *Chemistry & biodiversity*, 23(1), e03221.

Liu Y, et al. (2025) Combining mitochondrial proteomes and Mendelian randomization to identify novel therapeutic targets for diabetic nephropathy. *Renal failure*, 47(1), 2473669.

Zhang X, et al. (2025) Investigating the molecular mechanism of purslane-based vitiligo treatment using network pharmacology, molecular docking and in vitro analyses. *Molecular medicine reports*, 31(5).

Qin K, et al. (2025) Kinesin family member 14 expression and its clinical implications in colorectal cancer. *World journal of gastrointestinal oncology*, 17(3), 102696.

Zheng C, et al. (2025) Volatile Compounds in Musk and Their Anti-Stroke Mechanisms. *Metabolites*, 15(3).

Yuan Y, et al. (2025) A new paradigm for drug discovery in the treatment of complex diseases: drug discovery and optimization. *Chinese medicine*, 20(1), 40.

Lin Z, et al. (2025) Molecular mechanisms and therapeutic targets of acute exacerbations of chronic obstructive pulmonary disease with *Pseudomonas aeruginosa* infection. *Respiratory research*, 26(1), 115.

Chen M, et al. (2025) Gravacin as an inhibitor of the auxin transport-activating protein kinase D6PK in *Arabidopsis*. *Frontiers in plant science*, 16, 1563571.

Cheng J, et al. (2025) Neuroprotective effects of ethanol extraction from *Rubia yunnanensis* Diels on chronic cerebral hypoperfusion: modulation of the System Xc-/GSH/GPX4 axis to alleviate oxidative stress and ferroptosis. *Frontiers in pharmacology*, 16, 1552228.

Prayoga DK, et al. (2025) Phytochemical Analysis, Computational Study, and in vitro Assay of *Etlingera elatior* Inflorescence Extract Towards Inducible Nitric Oxide Synthase. *Journal of experimental pharmacology*, 17, 123.

Wang X, et al. (2025) Network Pharmacology and Molecular Docking: Exploring the Mechanism of Peppermint in Mastitis Prevention and Treatment in Dairy Cows. *Veterinary sciences*, 12(2).

Chen X, et al. (2025) Network pharmacology and molecular docking to explore mechanisms of clozapine-induced cardiac arrest. *Journal of psychiatry & neuroscience : JPN*, 50(1), E1.

Rafeeq M, et al. (2025) Effects of a Rosiridin against Rotenone-induced Rats' Model of Parkinson's Disease: In-vivo Study and in silico Molecular Modeling. *Current neuropharmacology*, 23(9), 1095.

Al-Shami AS, et al. (2025) Early-life bisphenol A exposure causes neuronal pyroptosis in juvenile and adult male rats through the NF- κ B/IL-1 β /NLRP3/caspase-1 signaling pathway: exploration of age and dose as effective covariates using an in vivo and in silico modeling approach. *Molecular and cellular biochemistry*, 480(4), 2301.