

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: 20260905T132726+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 13612 mentions in open access literature.

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

Ding XW, et al. (2027) Evolution of alcohol oxidase for improved methanol bioconversion and formaldehyde tolerance. *Synthetic and systems biotechnology*, 15, 22.

Zhang L, et al. (2027) Discovery of leucine analogues of tyrocidines and tryptocidines from *Brevibacillus brevis* B011 through genome mining and in vitro biosynthesis. *Synthetic and systems biotechnology*, 15, 58.

Chen S, et al. (2026) Diversity-triggered 2-naphthoic acid exudation recruits keystone microbial taxa to promote soybean drought tolerance. *Cell host & microbe*, 34(5), 844.

Su M, et al. (2026) FASN inactivation-induced progranulin (GRN) expression promotes lysosome-dependent cell death to suppress leukemogenesis. *Cell reports*, 45(3), 117042.

Cheema PS, et al. (2026) Identification and validation of novel small molecule inhibitors targeting FoxM1-DNA binding domain with anti-cancer potential. *Biochimica et biophysica acta. Molecular cell research*, 1873(7), 120193.

Jiang X, et al. (2026) USP20-Driven Cholesterol Metabolism Links Inflammatory Signaling to Malignancy and Stromal Coevolution in Pancreatic Cancer. *Cancer research*, 86(3), 712.

Liu SS, et al. (2026) Epigenetic regulation of NDGA and its synergistic inhibition with EZH2 inhibitors in prostate cancer via NRP1. *Acta pharmacologica Sinica*, 47(6), 1643.

Lu Y, et al. (2026) GAL3ST1-Mediated Histone Tyrosine Sulfation Induced by Cancer-Associated Fibroblasts Promotes Gastric Cancer Metastasis. *Cancer research*, 86(10), 2429.

Zhang Y, et al. (2026) Nigakinone enhances FXR expression to synergize with irinotecan in suppressing colorectal cancer cells and xenografts. *Biochemical pharmacology*, 249, 117904.

Su Q, et al. (2026) Integrated bulk RNA-seq and scRNA-seq identification of a novel "PET-SPI1-MYL9" transcriptional axis in lung adenocarcinoma driven by polyethylene terephthalate exposure. *Translational cancer research*, 15(3), 173.

An K, et al. (2026) Hypoxia-activated PROTAC for dual inhibition of FAK and EGFR enables synergistic mechano-chemical cancer therapy. *Neoplasia* (New York, N.Y.), 79, 101328.

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).

Ravegnini G, et al. (2026) Identification of MBT3T as a new effective therapeutic option in imatinib-resistant gastrointestinal stromal tumors (GISTs). *Journal of experimental & clinical cancer research : CR*, 45(1).

Cordeiro S, et al. (2026) Natural xanthenes as α -Mangostin induce vasorelaxation involving key gating residues in the S6 domain of BK channels. *eLife*, 14.

Karthikeyan A, et al. (2026) Multitarget inhibition of biofilm, virulence, and quorum sensing of *Pseudomonas aeruginosa* by FDA-approved natural bioactives. *Microbial pathogenesis*, 217, 108595.

Zhang S, et al. (2026) A pH-Responsive Biomimetic Antioxidant Nanoplatform with Dual Renal Targeting for Synergistic Therapy of Acute Kidney Injury. *Advanced science* (Weinheim, Baden-Wurtemberg, Germany), 13(5), e15664.

Åstrand A, et al. (2026) Structure-activity relationship of prevalent synthetic cannabinoid metabolites on hCB1 in vitro and in silico dynamics. *Acta pharmacologica Sinica*, 47(3), 776.

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.

McDonald A, et al. (2026) Enzymatic epimerization of monoterpene indole alkaloids in kratom. *Nature chemical biology*, 22(2), 229.

Shen T, et al. (2026) FSP1 reduces exogenous coenzyme Q10 and inhibits ferroptosis to alleviate intestinal ischemia-reperfusion injury. *Journal of advanced research*, 84, 603.