Resource Summary Report

Generated by dkNET on Sep 8, 2026

AutoDock

RRID:SCR_012746
Type: Tool

Proper Citation

AutoDock (RRID:SCR_012746)

Resource Information

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

Proper Citation: AutoDock (RRID:SCR_012746)

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 dkNET .

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.

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

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

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? 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).

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.

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

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-Wurttemberg, 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.