

Resource Summary Report

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Open Babel

RRID:SCR_014920

Type: Tool

Proper Citation

Open Babel (RRID:SCR_014920)

Resource Information

URL: http://openbabel.org/wiki/Main_Page

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Description: Software toolbox that is used to convert, analyze, or store data from molecular modeling, chemistry, biochemistry and other related areas. This software is used to read, write, and convert into over 110 chemical file formats.

Resource Type: software application, data analytics software, software resource, data processing software

Keywords: toolbox, conversion, analysis, molecular model, chemistry, biochemistry, chemical file, bio.tools

Availability: Open source

Resource Name: Open Babel

Resource ID: SCR_014920

Alternate IDs: biotools:open_babel

Alternate URLs: https://bio.tools/open_babel

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260729T044356+0000

Ratings and Alerts

No rating or validation information has been found for Open Babel.

No alerts have been found for Open Babel.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 81 mentions in open access literature.

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

Wahyuni DK, et al. (2025) Biotransformation of medicarpin from homopterocarpin by *Aspergillus niger* and its biological characterization. *Scientific reports*, 15(1), 21371.

Dweba Y, et al. (2025) In Silico Bioprospection of *Daniellia oliveri*-Based Products as Quorum Sensing Modulators of *Escherichia coli* SdiA. *Biochemistry research international*, 2025, 7191508.

Rajendran D, et al. (2025) In silico analysis of Triphala-derived polyphenols as inhibitors of TIR-TIR homodimerization in the inflammatory pathway. *Frontiers in bioinformatics*, 5, 1565700.

Vaidya H, et al. (2025) Anti-EBV: Artificial intelligence driven predictive modeling for repurposing drugs as potential antivirals against Epstein-Barr virus. *Computational and structural biotechnology journal*, 27, 1784.

Lu J, et al. (2025) Ginsenosides as Potential Natural Ligands of SLC3A2: Computational Insights in Cancer. *Life (Basel, Switzerland)*, 15(6).

Li CY, et al. (2025) Benchmarking single-cell cross-omics imputation methods for surface protein expression. *Genome biology*, 26(1), 46.

Rojas WY, et al. (2025) Galaxy QCxMS for straightforward semi-empirical quantum mechanical EI-MS prediction. *GigaByte (Hong Kong, China)*, 2025, gigabyte160.

Chen JY, et al. (2025) Alisol Triterpenoids Exhibit Triple Modulatory Mechanisms on the Cell Membrane to Overcome Cancer Multidrug Resistance. *Drug design, development and therapy*, 19, 5471.

Chushak Y, et al. (2025) Prediction of Respiratory Irritation and Respiratory Sensitization of Chemicals Using Structural Alerts and Machine Learning Modeling. *Toxics*, 13(4).

Ji B, et al. (2025) A Full-Spectrum Generative Lead Discovery (FSGLD) Pipeline via DRUG-GAN: A Multiscale Method for Drug-like/Target-specific Compound Library Generation. *Research square*.

Musundi S, et al. (2025) Emergence and transmission dynamics of the FY.4 Omicron variant in Kenya. *Virus evolution*, 11(1), veaf035.

Huang T, et al. (2025) Discovery of two novel cutinases from a gut yeast of plastic-eating mealworm for polyester depolymerization. *Applied and environmental microbiology*, 91(4), e0256224.

Tan YS, et al. (2025) HarmGR13 mediates myo-inositol taste perception in *Helicoverpa armigera* larvae. *PLoS genetics*, 21(6), e1011744.

Yu B, et al. (2025) Neonatal-Inspired Reprogramming of Microglial Pan-Programmed Cell Death Enhances Regeneration in Adult Spinal Cord Injury. *Research (Washington, D.C.)*, 8, 0759.

Tao L, et al. (2025) Vitamin K2 inhibits PGE2-mediated osteoblast ferroptosis by upregulation of CBR1 via the Nrf2/Keap1 pathway. *Communications biology*, 8(1), 1116.

Liu Y, et al. (2025) Delphinidin attenuates cognitive deficits and pathology of Alzheimer's disease by preventing microglial senescence via AMPK/SIRT1 pathway. *Alzheimer's research & therapy*, 17(1), 138.

Hung NV, et al. (2025) Discovery of novel theophylline derivatives bearing tetrazole scaffold for the treatment of Alzheimer's disease. *RSC advances*, 15(9), 6994.

Tran TH, et al. (2025) Flavonoid carbamate hybrids: design, synthesis, and evaluation as multi-target enzyme inhibitors for Alzheimer's disease. *RSC advances*, 15(21), 16855.

Ali MH, et al. (2025) In vitro and in silico investigation of the critical role of GABAB receptor activation in human breast cancer and its natural agonists
In vitro and in silico investigation of the critical role of GABAB receptor activation in human breast cancer and its natural agonists. *Oncology letters*, 30(1), 357.

Ali HA, et al. (2025) Sonosynthesis of new functionalized optically active triazines via double Mannich reaction: antibacterial potential and in silico docking study. *RSC advances*, 15(22), 17516.