

Resource Summary Report

Generated by [RRID](#) on Aug 2, 2026

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 resource, software application, data processing software, data analytics 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: 20260801T190845+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 [RRID](#) .

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.

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.

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

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

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.

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

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

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.

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

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.

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

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*.

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.

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.

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.

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.

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

Hamakawa Y, et al. (2025) Understanding Conformation Importance in Data-Driven Property Prediction Models. *Journal of chemical information and modeling*, 65(7), 3388.

Liu S, et al. (2025) A comprehensive study on the impact of *Ligustrum vicaryi* L. fruit polysaccharide on myocardial fibrosis through animal experiments, network pharmacology and molecular docking. *Frontiers in cardiovascular medicine*, 12, 1470761.

Zhang H, et al. (2025) Oyster shells water extract ameliorates propylthiouracil-induced goitre in rats via PI3K/AKT/Bcl-2 pathway. *NPJ science of food*, 9(1), 103.