

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

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: 20260821T194031+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 100 mentions in open access literature.

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

Omar HS, et al. (2026) Identification of physiological races of *Puccinia striiformis* f. sp. *tritici* and molecular docking of some biological treatments as prospective fungal inhibitor candidates in wheat. *Scientific reports*, 16(1).

Dong X, et al. (2026) Gut-microbiota-derived 3-indoleacrylic acid alleviates neonatal necrotizing enterocolitis by inhibiting epithelial necroptosis. *Cell reports. Medicine*, 7(4), 102721.

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.

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.

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.

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.

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.

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.

- 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.
- Cao Y, et al. (2025) Neuroprotective Terpenoids Derived from *Hericium erinaceus* Fruiting Bodies: Isolation, Structural Elucidation, and Mechanistic Insights. *International journal of molecular sciences*, 26(14).
- Tan YS, et al. (2025) HarmGR13 mediates myo-inositol taste perception in *Helicoverpa armigera* larvae. *PLoS genetics*, 21(6), e1011744.
- S KN, et al. (2025) Molecular docking analysis of bioactive molecules from herbs with snake venom phospholipase A2. *Bioinformation*, 21(3), 290.
- 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.
- 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.
- Chushak Y, et al. (2025) Prediction of Respiratory Irritation and Respiratory Sensitization of Chemicals Using Structural Alerts and Machine Learning Modeling. *Toxics*, 13(4).
- Li CY, et al. (2025) Benchmarking single-cell cross-omics imputation methods for surface protein expression. *Genome biology*, 26(1), 46.
- Chen W, et al. (2025) Exploring the protective mechanisms of the yunpi jiedu tongluo qushi decoction on methotrexate-induced reproductive damage in male rats based on Nrf2/HO-1 signaling pathway. *Frontiers in cell and developmental biology*, 13, 1626955.