

Resource Summary Report

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MiMeDB

RRID:SCR_025108

Type: Tool

Proper Citation

MiMeDB (RRID:SCR_025108)

Resource Information

URL: <https://mimedb.org>

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Description: Database containing detailed information about small molecules produced by human microbiome. Provides metabolite data including structure, names, descriptions, chemical taxonomy, chemical ontology, physico-chemical data, spectra and contains detailed information about microbes that produce these chemicals, enzymatic reactions responsible for their production, bioactivity of chemicals and anatomical location of these chemicals and microbes. Many data fields in the database are hyperlinked to other databases including FooDB, HMDB, KEGG, PubChem, MetaCyc, ChEBI, UniProt, and GenBank. Database is FAIR compliant. The data in MiMeDB are released under the Creative Commons (CC) 4.0 License.

Synonyms: , Microbial Metabolites Database, The Human Microbial Metabolome Database

Resource Type: data or information resource, database

Defining Citation: [PMID:36215042](#)

Keywords: FAIR, small molecule metabolites, human microbiome, metabolite data,

Funding: Canada Foundation for Innovation ;
Canadian Institutes for Health Research ;
Genome Canada ;
Natural Sciences and Engineering Research Council of Canada ;
NIA U19 AG063744

Availability: Free, Freely available

Resource Name: MiMeDB

Resource ID: SCR_025108

Record Creation Time: 20240318T174908+0000

Record Last Update: 20260905T133450+0000

Ratings and Alerts

No rating or validation information has been found for MiMeDB.

No alerts have been found for MiMeDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Mandanas JAH, et al. (2026) Neutralization of SARS-CoV-2 Spike Pseudotyped Viruses Using Postbiotic Preparations from Lactiplantibacillus plantarum BS25. Acta medica Philippina, 60(7), 58.

Kruger R, et al. (2026) MiMeDB 2.0: the Human Microbial Metabolome Database for 2026. Nucleic acids research, 54(D1), D623.

Buendia-Corona RE, et al. (2026) Computational Identification of Blood-Brain Barrier-Permeant Microbiome Metabolites with Binding Affinity to Neurotransmitter Receptors in Neurodevelopmental Disorders. Molecules (Basel, Switzerland), 31(2).

Silva JMM, et al. (2026) Resilient gut microbiome is linked to immune control in HIV-1 infection. Biology direct, 21(1), 10.

Zheng B, et al. (2025) Exploring the role of gut probiotic metabolites in the prevention and treatment of otitis media. Frontiers in cellular and infection microbiology, 15, 1661871.

Pérez-Gómez O, et al. (2025) Metabolite-Driven Modulation of Biofilm Formation in Shewanella: Insights from Shewanella sp. Pdp11 Extracellular Products. Microbial ecology, 88(1), 55.

Wu PS, et al. (2025) Fecal carriage of multidrug-resistant organisms increases the risk of hepatic encephalopathy in patients with cirrhosis: insights from gut microbiota and metabolite features. Gut pathogens, 17(1), 30.

Ruiz-Moreno AJ, et al. (2025) MicrobeRX: a tool for enzymatic-reaction-based metabolite prediction in the gut microbiome. Microbiome, 13(1), 78.

Deng S, et al. (2025) Identification and impact of microbiota-derived metabolites in ascites of ovarian and gastrointestinal cancer. *Cancer & metabolism*, 13(1), 21.

Wu S, et al. (2024) Multi-omic analysis tools for microbial metabolites prediction. *Briefings in bioinformatics*, 25(4).

Zhang Y, et al. (2024) Integrating multi-omics to unravel host-microbiome interactions in inflammatory bowel disease. *Cell reports. Medicine*, 5(9), 101738.

Assaf S, et al. (2024) Unraveling the Evolutionary Diet Mismatch and Its Contribution to the Deterioration of Body Composition. *Metabolites*, 14(7).