Resource Summary Report

Generated by NIF on May 17, 2025

HMDB

RRID:SCR_007712
Type: Tool

Proper Citation

HMDB (RRID:SCR_007712)

Resource Information

URL: http://www.hmdb.ca

Proper Citation: HMDB (RRID:SCR_007712)

Description: Curated collection of human metabolite and human metabolism data which contains records for endogenous metabolites, with each metabolite entry containing detailed chemical, physical, biochemical, concentration, and disease information. This is further supplemented with thousands of NMR and MS spectra collected on purified reference metabolites.

Abbreviations: HMDB

Synonyms: Human Metabolome Database, The Human Metabolome Database

Resource Type: database, data or information resource

Keywords: human metabolism, human metabolite, metabolite, metabolomics, pathway, FASEB list

Funding: Genome Alberta ;
Alberta Ingenuity Centre for Machine Learning ;
Canadian Foundation for Innovation

Resource Name: HMDB

Resource ID: SCR_007712

Alternate IDs: nif-0000-02968, nlx_152721, SCR_013647

Record Creation Time: 20220129T080243+0000

Record Last Update: 20250517T055836+0000

Ratings and Alerts

No rating or validation information has been found for HMDB.

No alerts have been found for HMDB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3412 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Li L, et al. (2025) Shenmai injection revives cardiac function in rats with hypertensive heart failure: involvement of microbial-host co-metabolism. BMC complementary medicine and therapies, 25(1), 24.

Wang Y, et al. (2025) Untargeted Metabolomics Reveals Key Differences Between Yak, Buffalo, and Cow Colostrum Based on UHPLC-ESI-MS/MS. Foods (Basel, Switzerland), 14(2).

Zheng C, et al. (2025) Integrative Omics Analysis Reveals Mechanisms of Anthocyanin Biosynthesis in Djulis Spikes. Plants (Basel, Switzerland), 14(2).

Zhang Q, et al. (2025) Integrated Microbiome and Metabolome Analysis Reveals Correlations Between Gut Microbiota Components and Metabolic Profiles in Mice With Mitoxantrone-Induced Cardiotoxicity. Drug design, development and therapy, 19, 439.

Wang J, et al. (2025) Integrated Physiological, Transcriptomic and Metabolomic Analyses of the Response of Rice to Aniline Toxicity. International journal of molecular sciences, 26(2).

Lu C, et al. (2025) Tetrastigma hemsleyanum as a feed additive: modulating gut microbiota for enhancing nutritional transport and growth performance in Jinhua yellow chickens. Poultry science, 104(1), 104652.

Wu Y, et al. (2025) Two-dimensional Health State Map to define metabolic health using separated static and dynamic homeostasis features: a proof-of-concept study. National science review, 12(1), nwae425.

Li Q, et al. (2025) FBXW7 metabolic reprogramming inhibits the development of colon cancer by down-regulating the activity of arginine/mToR pathways. PloS one, 20(1), e0317294.

Hou CC, et al. (2025) Specific plasma metabolite profile in intestinal Behçet's syndrome. Orphanet journal of rare diseases, 20(1), 21.

Wang J, et al. (2025) Characteristic alterations of gut microbiota and serum metabolites in patients with chronic tinnitus: a multi-omics analysis. Microbiology spectrum, 13(1), e0187824.

Li T, et al. (2025) Free-caged rearing modes regulate chicken intestinal metabolism by influencing gut microbial homeostasis. Poultry science, 104(1), 104381.

Ludwig C, et al. (2025) MetaboLabPy-An Open-Source Software Package for Metabolomics NMR Data Processing and Metabolic Tracer Data Analysis. Metabolites, 15(1).

He M, et al. (2025) Metabolomics and Transcriptomics Reveal the Effects of Different Fermentation Times on Antioxidant Activities of Ophiocordyceps sinensis. Journal of fungi (Basel, Switzerland), 11(1).

Chamoso-Sanchez D, et al. (2025) Unveiling cellular changes in leukaemia cell lines after cannabidiol treatment through lipidomics. Scientific reports, 15(1), 2238.

Wu Y, et al. (2025) Weizmannia coagulans BC99 Attenuates Oxidative Stress Induced by Acute Alcoholic Liver Injury via Nrf2/SKN-1 Pathway and Liver Metabolism Regulation. Antioxidants (Basel, Switzerland), 14(1).

Li J, et al. (2025) Baicalein induces apoptosis by inhibiting the glutamine-mTOR metabolic pathway in lung cancer. Journal of advanced research, 68, 341.

Qiu J, et al. (2025) Ucp1 Ablation Improves Skeletal Muscle Glycolytic Function in Aging Mice. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(2), e2411015.

Zhao Q, et al. (2025) Dual-purpose elemental sulfur for capturing and accelerating biodegradation of petroleum hydrocarbons in anaerobic environment. Water research X, 26, 100290.

Eswaran S, et al. (2025) Biological functions of extracellular vesicle double C2-like domain beta in cervical cancer. Scientific reports, 15(1), 477.

Barba-Espín G, et al. (2025) Halophyte-based crop managements induce biochemical, metabolomic and proteomic changes in tomato plants under saline conditions. Physiologia plantarum, 177(1), e70060.