

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

HMDB

RRID:SCR_007712

Type: Tool

Proper Citation

HMDB (RRID:SCR_007712)

Resource Information

URL: <http://www.hmdb.ca>

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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: data or information resource, database

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, r3d100011285, SCR_013647

Alternate URLs: <https://doi.org/10.17616/R33K90>

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260905T132614+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 5736 mentions in open access literature.

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

He P, et al. (2027) Key molecular networks underlying retinol's biphasic effects on cell proliferation through multi-omics integrative analysis using genome-scale metabolic modeling. *Synthetic and systems biotechnology*, 15, 43.

Yang J, et al. (2026) Temporal Metabolomics Profiling Reveals Liver Metabolic Control in Single and Repeated Exhaustive Exercise in Murine Models. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(9), e71868.

Weinberg F, et al. (2026) Integrative Analysis of Multiomic Pathways Predicts Cancer-Affected Lobes in Lung Cancer. *Cancer prevention research (Philadelphia, Pa.)*, 19(4), 229.

Wherley TJ, et al. (2026) Myomaker and ether lipids cooperate to promote fusion-competent membrane states. *Cell reports*, 45(2), 116900.

Huang Y, et al. (2026) SR-B1-Mediated Transplacental Transfer of Hydrophobic Toxicants Disrupts Fetal Development During Barrierogenesis. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(23), e15742.

Wintz K, et al. (2026) In-depth characterization of the CaV2.2-knockout mouse line. *Scientific reports*, 16(1).

Li N, et al. (2026) Pre-diagnostic metabolites in peripheral blood of Langerhans cell histiocytosis children with posterior pituitary involvement. *Metabolomics : Official journal of the Metabolomic Society*, 22(4).

Chen D, et al. (2026) Spatially Resolved Multiomics Reveals Metabolic Remodeling and Autophagy Activation in Adamantinomatous Craniopharyngiomas. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, e16965.

Zhang Y, et al. (2026) Ketogenic Diet Modulates Depressive-Like Behavior via Gut Bacterial Metabolism of Tyrosine. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(10), e71966.

- Shi J, et al. (2026) Elevated Apolipoprotein E Expression in Hippocampal Microglia Drives Temporal Lobe Epilepsy Progression. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(2), e05778.
- Lyu Y, et al. (2026) Post-transport recovery trajectory of the canine gut microbiome and metabolome. *Journal of animal science and biotechnology*, 17(1).
- Skov SH, et al. (2026) Rapid Cold Fixation of Mouse Colon (Col'RFix) Enables High-Resolution Mass Spectrometry Imaging. *Analytical chemistry*, 98(16), 11652.
- Ma Y, et al. (2026) Comparison of Gut Microbiota and Metabolic Characteristics Between Miechongshu-Treated and Untreated Yili Horses. *Animals : an open access journal from MDPI*, 16(7).
- Han J, et al. (2026) The Preserving Effect of a Lemon Essential Oil?Rutin?Chitosan Composite Coating on Seasoned White Snakehead Fillets and Dynamic Changes in Metabolites. *Foods* (Basel, Switzerland), 15(7).
- Bossi E, et al. (2026) Metabolic Adaptation during Cardiac Exercise Rehabilitation in Patients after a First Myocardial Infarction. *Journal of proteome research*, 25(3), 1636.
- Tang X, et al. (2026) Targeting Senescence: Tianma Granule Inhibits Colorectal Cancer Progression by Modulating miR-29a-5p/P53 Signaling in the Tumor Microenvironment. *Molecular nutrition & food research*, 70(2), e70338.
- Qiu S, et al. (2026) MAPK14/SLC7A11/GPX4 axis dysregulation drives podocyte ferroptosis via mediating glycerophospholipid metabolism. *Cell death discovery*, 12(1).
- Buck CO, et al. (2026) Urine Metabolism Biomarkers Predict Preterm Infant Adiposity at Hospital Discharge. *Molecular nutrition & food research*, 70(6), e70431.
- Wang Q, et al. (2026) Calcium supply promotes seed germination in Tartary buckwheat (*Fagopyrum tataricum*) by mediating amino acid and lipid metabolism to drive osmotic regulation and antioxidant responses. *BMC plant biology*, 26(1).
- Capatina AL, et al. (2026) Artemether and Euphorbia factor L9 suppress kynurenine production through distinct effects on tryptophan metabolism. *The Biochemical journal*, 483(4), 541.