

Resource Summary Report

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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: 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: 20260813T054948+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 [ASWG](#) .

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.

Saum K, et al. (2026) Chronic kidney disease induces distinct alterations of macrophage lipid metabolism in a mouse model of atherosclerosis. *Journal of lipid research*, 67(2), 100975.

Zhang X, et al. (2026) Integrated multi-omics analysis reveals the effects of cage and floor rearing systems on meat quality in Chengkou Mountain chickens. *Poultry science*, 105(1), 106165.

Chen Y, et al. (2026) Platelet Lysate-Enriched Human Induced Pluripotent Stem Cell-Derived Chondrocyte Sheets for Bone Defect Repair via Endochondral Ossification. *Advanced healthcare materials*, 15(9), e03527.

Huo R, et al. (2026) Procyanidin Suppresses Tumor Growth by Activating the B-Cell MAPK Pathway through Remodulation of the Gut Microbiota and Metabolites in Hepatocellular Carcinoma. *International journal of biological sciences*, 22(1), 161.

Cho E, et al. (2026) Synergistic antifungal effects of botanical extracts against *Candida albicans*. *PloS one*, 21(1), e0340665.

Li X, et al. (2026) INSIG1 parallel substitution drives lipid/sterol metabolic plasticity mediating desert adaptation in ungulates. *Communications biology*, 9(1), 245.

Xu L, et al. (2026) High sulfate exacerbates heavy metal toxicity in Chinese cabbage (*Brassica chinensis* L.) by impairing plant ROS scavenging in heavy metals contaminated soil. *BMC plant biology*, 26(1), 260.

Wang Z, et al. (2026) IL4I1? Macrophages and TDO2? Myofibroblasts Drive AhR-Mediated Immunosuppression and Ferroptosis Resistance in Solid Predominant Lung Adenocarcinoma. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(13), e13606.

Xie H, et al. (2026) Unraveling the differences in meat flavor of duck and its regulatory mechanisms based on microbiomics, metabolomics, and flavoromics sequencing. *Current research in food science*, 12, 101281.

Ikoma T, et al. (2026) Myocardial testosterone glucuronide and disease phenotypes in hypertrophic cardiomyopathy. *ESC heart failure*, 13(1).