

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: 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, r3d100011285, SCR_013647

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

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260728T043254+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 4113 mentions in open access literature.

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

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 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.

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.

Zhang Y, et al. (2026) Modulation of intestinal health and metabolism by dietary Portulaca oleracea L. extract enhances growth performance, immune function, and meat quality in Wenchang chickens. Poultry science, 105(1), 106098.

Liu J, et al. (2026) Human Umbilical Cord Plasma Metabolomics Uncover Potential Metabolites for Combating Aging. Aging cell, 25(1), e70295.

Hu T, et al. (2026) Physiological Regulation and Alleviation Effect of Melatonin on Leymus Chinensis Seedlings Under Drought Stress. Physiologia plantarum, 178(1), e70727.

Xu L, et al. (2026) Transcriptome and metabolite profiling reveals the mechanism of hepatic lipid metabolism during fasting in chicken. Animal bioscience, 39(1), 250014.

Wang H, et al. (2026) Effects of Lactiplantibacillus Plantarum fermented feed on meat quality and lipid metabolism of broilers. Poultry science, 105(1), 106099.

Zhang C, et al. (2026) Multi-omics reveals gut microbiota-mediated environmental adaptation in Mallards and domesticated Shaoxing ducks. Poultry science, 105(1), 106177.

Wang S, et al. (2026) Proteomic and metabolomic profiling reveal alterations in freezing-thawing and fresh drake sperm. Poultry science, 105(1), 106192.

Durot S, et al. (2026) Multi-omics analysis reveals metabolic diversity underlying endothelial cell functions. *Life science alliance*, 9(3).

Gong J, et al. (2026) Protocatechuic acid attenuated inflammation caused by *Prevotella copri* and its metabolites. *Virulence*, 17(1), 2609387.

Uribe-Herranz M, et al. (2025) Microbiota Shape Metabolic and Immune Determinants of CAR-T Therapy and Correlate with Outcomes in Myeloma. *Blood cancer discovery*, 6(5), 484.

Silva JG, et al. (2025) Impact of High-Fat Diet-induced Metabolic Dysfunction-associated Steatotic Liver Disease on Heart, Kidney, and Skeletal Muscle Metabolomes in Wild-Type Mice. *Journal of proteome research*, 24(5), 2491.

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

Hong SM, et al. (2025) Biotransformation by beta glucosidase enhances anti inflammatory metabolites in licorice using untargeted metabolomics. *NPJ science of food*, 9(1), 166.

Qiu Y, et al. (2025) Cell type-specific master metabolic regulators of Alzheimer's disease. *bioRxiv : the preprint server for biology*.

Wu N, et al. (2025) Gut microbiota alterations modulate high-fat diet-induced precocious puberty. *Microbiology spectrum*, 13(9), e0326424.

Fang Z, et al. (2025) Metabolomic and lipidomic profiling of plasma in kidney stone patients: identification of potential biomarkers and therapeutic targets. *Metabolomics : Official journal of the Metabolomic Society*, 21(5), 117.

Feng J, et al. (2025) Effects of *Mytilus edulis* derived plasmalogens against atherosclerosis via lipid metabolism and MAPK signaling pathway. *NPJ science of food*, 9(1), 178.