

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.

Bibi A, et al. (2025) Behavioral alterations in antibiotic-treated mice associated with gut microbiota dysbiosis: insights from 16S rRNA and metabolomics. *Frontiers in neuroscience*, 19, 1478304.

Wang D, et al. (2025) Effects of *Lactobacillus casei* Zhang addition on physicochemical properties and metabolomics of fermented camel milk during storage. *Food chemistry: X*, 26, 102318.

de Castro PA, et al. (2025) *Aspergillus fumigatus* secondary metabolite pyripyropene is important for the dual biofilm formation with *Pseudomonas aeruginosa*. *mBio*, 16(4), e0036325.

Wang J, et al. (2025) Impact of intragastric administration of donkey milk on mouse immunity utilizing gut microbiomics and plasma metabolomics. *Frontiers in veterinary science*, 12, 1486406.

Xun L, et al. (2025) Specialized metabolites present in *Camellia reticulata* nectar inhibit the growth of nectar-inhabiting microorganisms. *Frontiers in plant science*, 16, 1557228.