

Resource Summary Report

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METLIN

RRID:SCR_010500

Type: Tool

Proper Citation

METLIN (RRID:SCR_010500)

Resource Information

URL: <http://metlin.scripps.edu/>

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Description: A public repository of metabolite information as well as tandem mass spectrometry data is provided to facilitate metabolomics experiments. It contains structures and represents a data management system designed to assist in a broad array of metabolite research and metabolite identification. An annotated list of known metabolites and their mass, chemical formula, and structure are available. Each metabolite is linked to outside resources for further reference and inquiry. MS/MS data is also available on many of the metabolites.

Abbreviations: METLIN

Synonyms: Metabolite and Tandem MS Database (METLIN), METLIN Metabolite Database, Metabolite and Tandem MS Database

Resource Type: data or information resource, database

Defining Citation: [PMID:16404815](#)

Keywords: metabolite, tandem, mass spectrometry, metabolomics, mass, chemical formula, structure, FASEB list

Resource Name: METLIN

Resource ID: SCR_010500

Alternate IDs: nlx_158116, r3d100012311

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260729T044252+0000

Ratings and Alerts

No rating or validation information has been found for METLIN.

No alerts have been found for METLIN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2183 mentions in open access literature.

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

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

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.

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.

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

Huang C, et al. (2026) The High-Altitude Adaptation Characteristics of Microbiota-Host Cross-Talk in Yak Gastrointestinal Track. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e14862.

Sun YL, et al. (2025) Arginine-Mediated Liver Immune Regulation and Antioxidant Defense in Largemouth Bass (*Micropterus salmoides*): Multi-Omics Insights into Metabolic Remodeling During *Nocardia seriolae* Infection. *Antioxidants* (Basel, Switzerland), 14(6).

Chen R, et al. (2025) Non-Surgical Periodontal Therapy and Metformin Improve Bone Loss in Obese Mice With Periodontitis by Modulating the Gut Microbiota. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(13), e70814.

Dai R, et al. (2025) Untargeted Metabolomic Analysis Using UPLC-MS/MS Reveals Metabolic Changes Associated With *Lanmaoa asiatica* Poisoning. *Food science & nutrition*, 13(7), e70583.

Pang F, et al. (2025) Mechanisms of Lushi Runzao decoction in Treating Sjögren's syndrome by remodeling gut flora to regulate bile acid and short-chain fatty acid

metabolism. *Frontiers in pharmacology*, 16, 1505642.

Pan B, et al. (2025) Hydroxysafflor Yellow A modulation of metabolite networks and inhibition of JAK2/STAT1 pathway in sepsis. *Scientific reports*, 15(1), 25861.

Khan I, et al. (2025) Integrated analysis of blood microbiome and metabolites reveals key biomarkers and functional pathways in myocardial infarction. *Journal of translational medicine*, 23(1), 797.

Wang X, et al. (2025) Multi-omics analyses the effect of *Bifidobacterium longum* subsp. *longum* BL21 supplementation on overweight and obese subjects: a randomized, double-blind, placebo-controlled study. *Nutrition & metabolism*, 22(1), 79.

Xu W, et al. (2025) Integrated analysis of gut microbiota, fecal and serum metabolites in type 2 diabetes mellitus with peripheral neuropathy. *Journal of endocrinological investigation*, 48(10), 2473.

Liu JP, et al. (2025) Differential effects of electroacupuncture and manual acupuncture on spontaneously hypertensive rats: insights from intestinal microbiota and metabolomics. *Frontiers in molecular biosciences*, 12, 1619356.

Ding C, et al. (2025) Glucose-Responsive PAGR1-Regulated Skeletal Muscle Gene Program Controls Systemic Glucose Homeostasis and Hepatic Metabolism. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(39), e02763.

Guo X, et al. (2025) Bacterial regulation of coral larval metamorphosis and settlement in *Pocillopora damicornis*. *Communications biology*, 8(1), 1271.

Ji J, et al. (2025) *Pediococcus acidilactici* GR-5 alleviates hyperuricemia by degrading purine nucleosides and improving gut microbiota metabolism. *NPJ science of food*, 9(1), 183.

Wang Q, et al. (2025) Targeting LINC01711 in FAP+ cancer-associated fibroblasts overcomes lactate-mediated immunosuppression and enhances anti-PD-1 efficacy in lung adenocarcinoma. *Cell death & disease*, 16(1), 642.

Xu X, et al. (2025) Sustainable management of soil-borne disease: integrating fumigation with *Andrographis paniculata* residues to rebuild rhizosphere function. *BMC microbiology*, 25(1), 460.