

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

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: database, data or information resource

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: 20260808T190418+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 2825 mentions in open access literature.

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

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.

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

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.

Ruan Y, et al. (2026) Lactic acid bacteria fermentation improves the physicochemical properties, bioactivity, and metabolic profiles of lychee pulp. Food chemistry: X, 34, 103535.

Huang W, et al. (2026) The intrinsic link between the double burden of dental caries and stunting in children: the gut microbiota plays a key role. BMC microbiology, 26(1).

Liang J, et al. (2026) Lemongrass (*Cymbopogon citratus*) supplementation improves growth performance, intestinal function and inflammation status in weaned piglets. Animal nutrition (Zhongguo xu mu shou yi xue hui), 24, 61.

Yu Y, et al. (2026) ?Multi-omics reveals nitrate-induced oxidative stress and morphogenesis pathways in *Morchella importuna*. IMA fungus, 17, e159999.

Shofner IJ, et al. (2026) Zinc regulation of lipidome remodeling during boar sperm capacitation. Journal of animal science, 104.

Fang Y, et al. (2026) Symbiont-mediated detoxification: *Wolbachia* alters the transcriptomic and metabolic landscape of *Drosophila* under nicotine stress. BMC genomics, 27(1), 136.

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

Yuan L, et al. (2026) Exploratory Screening and Replication of Urinary Biomarkers of Fruit and Vegetable Intake in Free-living European Children and Adolescents Using Untargeted Metabolomics. *The Journal of nutrition*, 156(2), 101302.

Chen P, et al. (2026) Integrative Transcriptome and Metabolome Analysis Reveals the Regulatory Mechanism Underlying the Potential Antioxidant Activity of Neohesperidin Dihydrochalcone-L-Arginine Complex in *Caenorhabditis elegans*. *Foods (Basel, Switzerland)*, 15(7).

Wu Q, et al. (2026) Early hypoxia-induced secretome remodeling reveals adaptive mechanisms and biomarkers of blood-brain barrier dysfunction in ischemic stroke. *Molecular brain*, 19(1).

Wang L, et al. (2026) *Trichoderma crassum* WMM-1-7 reshapes the rhizosphere metabolome of *Pseudostellaria heterophylla* with benefits. *BMC plant biology*, 26(1).

Ma Y, et al. (2026) The Gut Microbiome and Metabolome of Domestic Cats Were Altered by the Oral Administration of Complex Probiotics. *Biology*, 15(8).

Gajjar K, et al. (2026) Multi-omics characterization of microbial and metabolite profiles of Jeevamrit and Ghanjeevamrit cow-based bioformulations used in sustainable agriculture. *Scientific reports*, 16(1).

Zhang B, et al. (2026) Simulated microgravity induces cerebral dysfunction by disturbing protective microbiota-metabolite-microglia signaling across the gut-brain axis. *Gut microbes*, 18(1), 2635820.

Xu L, et al. (2026) Characterization of age-related changes in the gut microbiome and metabolome of Kunming dogs and their associations with police performance. *Microbiome*, 14(1).

Cheng S, et al. (2026) Multi-omics integration reveals the link between gut microbiota dysbiosis, host metabolic dysregulation, and aortic inflammation in abdominal aortic aneurysm?. *BMC microbiology*, 26(1).