

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: 20260912T200203+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.

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.

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

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

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

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.

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.

Huang M, et al. (2026) Integrated transcriptome and metabolome analysis reveals the molecular mechanisms of drought response in *Setaria italica* during the booting stage. *BMC plant biology*, 26(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.

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

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).

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.

Yu H, et al. (2026) Integrated Gut Microbiome and Metabolome Analysis in Largemouth Bass (*Micropterus salmoides*) Following Viral Infection. *Animals : an open access journal from MDPI*, 16(5).

Jiang H, et al. (2026) Quercetin and Derivatives Ameliorate Metabolic Disturbances by Regulating Gut Metabolite Profiles in Mice with Circadian Rhythm Disruption and High-Fat Diet. *Nutrients*, 18(5).

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).

Zou T, et al. (2026) Colon cancer cachexia remodels gut microbiota and metabolite profiles in a murine model. *Journal of gastrointestinal oncology*, 17(1), 13.

Gao Z, et al. (2026) Effects of Galacto-Oligosaccharide Supplementation on Cecal Microbiota, Phospholipid and Aromatic Amino Acid Metabolism in Mice. *Microorganisms*, 14(3).