

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: 20260806T054524+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 [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.

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.

Lin Z, et al. (2025) The mechanism by which oriented polypropylene packaging alleviates postharvest 'Black Spot' in radish root (*Raphanus sativus*). *Journal of advanced research*, 72, 1.

Le Y, et al. (2025) Unveiling the omics tapestry of B-acute lymphoblastic leukemia: bridging genomics, metabolomics, and immunomics. *Scientific reports*, 15(1), 3188.

Tyagi A, et al. (2025) *Limosilactobacillus reuteri* fermented brown rice alleviates anxiety improves cognition and modulates gut microbiota in stressed mice. *NPJ science of food*, 9(1), 5.

Fang D, et al. (2025) Methionine-driven methylation modification overcomes plasmid-mediated high-level tigecycline resistance. *Nature communications*, 16(1), 417.

Liu YK, et al. (2025) Application of integrated omics in aseptic loosening of prostheses after hip replacement. *Molecular medicine reports*, 31(3).

Wu H, et al. (2025) Metabolic Reprogramming of Neural Stem Cells by Chiral Nanofiber for Spinal Cord Injury. *ACS nano*, 19(4), 4785.

Cheng Y, et al. (2025) The effects of restraint stress and orthodontic tooth movements on the intestinal epithelial structure and metabolic function in rats. *PloS one*, 20(2), e0319779.

Zhao L, et al. (2025) Calcium-dependent protein kinase PpCDPK29-mediated Ca²⁺-ROS signal and PpHSFA2a phosphorylation regulate postharvest chilling tolerance of peach fruit. *Plant biotechnology journal*, 23(6), 1938.

Wang Y, et al. (2025) Metabolomic and Transcriptomic Analyses Reveal the Factors Underlying Mature Fruit Pericarp Color Variations in the 'Xinli No. 7' Pear (*Pyrus sinkiangensis*). *Metabolites*, 15(2).

Das??-Navarro N, et al. (2025) Metabolomic Profiling of Human Urine Related to Mycotoxin Exposure. *Toxins*, 17(2).

Zhao Y, et al. (2025) A glucose-enriched lung pre-metastatic niche triggered by matrix stiffness-tuned exosomal miRNAs in hepatocellular carcinoma. *Nature communications*, 16(1), 1736.

Xie Y, et al. (2025) Moxibustion inhibits inflammation in monosodium urate crystal-induced gouty arthritis model rats through metabolomic regulation. *Frontiers in molecular biosciences*, 12, 1433912.

Wang Z, et al. (2025) Mechanism of salidroside promoting testosterone secretion induced by H₂O₂ in TM3 Leydig cells based on metabolomics and network pharmacology. *Frontiers in chemistry*, 13, 1544876.

Li P, et al. (2025) Dihydromyricetin Promotes Glucagon-Like Peptide-1 Secretion and Improves Insulin Resistance by Modulation of the Gut Microbiota-CDCA Pathway. *Molecular nutrition & food research*, 69(8), e202400491.