# **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: database, data or information resource

Defining Citation: PMID:16404815

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

**Funding:** 

Availability: Public, Non-commercial, Commercial with written authorization

Resource Name: METLIN

Resource ID: SCR\_010500

Alternate IDs: nlx\_158116

**Record Creation Time:** 20220129T080259+0000

Record Last Update: 20250412T055513+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: <u>SciCrunch Registry</u>

## **Usage and Citation Metrics**

We found 1905 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

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

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

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

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.

Li T, et al. (2025) Revealing differences in flavor compounds during plum wine fermentation using single and mixed yeast strains through metabolomic analysis. Food chemistry: X, 25, 102100.

Liu P, et al. (2025) Untargeted metabolomics and functional analyses reveal that the secondary metabolite quinic acid associates with Angelica sinensis flowering. BMC plant biology, 25(1), 72.

Liu Z, et al. (2025) N?-carboxyethyl-lysin influences atherosclerotic plaque stability through

ZKSCAN3 acetylation-regulated macrophage autophagy via the RAGE/LKB1/AMPK1/SIRT1 pathway. Cardiovascular diabetology, 24(1), 36.

Xu C, et al. (2025) The Comorbidity of Depression and Diabetes Is Involved in the Decidual Protein Induced by Progesterone 1 (Depp1) Dysfunction in the Medial Prefrontal Cortex. Metabolites, 15(1).

Luo Y, et al. (2025) Efficacy and compatibility mechanism of bear bile powder in Shexiang Tongxin dropping pills for acute myocardial infarction treatment. Chinese medicine, 20(1), 14.

Cao HH, et al. (2025) An untargeted metabolomic analysis of acute AFB1 treatment in liver, breast, and lung cells. PloS one, 20(1), e0313159.

Chamoso-Sanchez D, et al. (2025) Unveiling cellular changes in leukaemia cell lines after cannabidiol treatment through lipidomics. Scientific reports, 15(1), 2238.

Yang S, et al. (2025) Luteolin Alleviates Ulcerative Colitis in Mice by Modulating Gut Microbiota and Plasma Metabolism. Nutrients, 17(2).

Metz TO, et al. (2025) Introducing "Identification Probability" for Automated and Transferable Assessment of Metabolite Identification Confidence in Metabolomics and Related Studies. Analytical chemistry, 97(1), 1.

Zheng C, et al. (2025) Integrative Omics Analysis Reveals Mechanisms of Anthocyanin Biosynthesis in Djulis Spikes. Plants (Basel, Switzerland), 14(2).

Zhang Q, et al. (2025) Integrated Microbiome and Metabolome Analysis Reveals Correlations Between Gut Microbiota Components and Metabolic Profiles in Mice With Mitoxantrone-Induced Cardiotoxicity. Drug design, development and therapy, 19, 439.

Wang J, et al. (2025) Integrated Physiological, Transcriptomic and Metabolomic Analyses of the Response of Rice to Aniline Toxicity. International journal of molecular sciences, 26(2).

Zhang G, et al. (2025) Flexible substrate-based mass spectrometry platform for in situ nondestructive molecular imaging of living plants. Plant biotechnology journal, 23(1), 97.

Chauhan S, et al. (2025) Muscarinic acetylcholine type 1 receptor antagonism activates TRPM3 to augment mitochondrial function and drive axonal repair in adult sensory neurons. Molecular metabolism, 92, 102083.

Wei C, et al. (2025) Aerobic exercise regulates gut microbiota profiles and metabolite in the early stage of Alzheimer's disease. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(2), e70327.

Xu X, et al. (2025) Integrated Transcriptomic and Targeted Metabolomic Analysis Reveals the Key Genes Involved in Triterpenoid Biosynthesis of Ganoderma lucidum. Journal of fungi (Basel, Switzerland), 11(1).