Resource Summary Report

Generated by dkNET on May 18, 2025

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: 20250517T055955+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 1905 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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).

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.

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

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.

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).

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

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.

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

Zhao Y, et al. (2025) Molybdenum Can Regulate the Expression of Molybdase Genes, Affect Molybdase Activity and Metabolites, and Promote the Cell Wall Bio-Synthesis of Tobacco Leaves. Biology, 14(1).

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.