Resource Summary Report

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MS-DIAL

RRID:SCR_023076
Type: Tool

Proper Citation

MS-DIAL (RRID:SCR_023076)

Resource Information

URL: http://prime.psc.riken.jp/compms/msdial/main.html

Proper Citation: MS-DIAL (RRID:SCR_023076)

Description: Software tool for data independent MS/MS deconvolution for comprehensive metabolome analysis. Universal program for untargeted metabolomics that supports multiple instruments (GC/MS, GC/MS/MS, LC/MS, and LC/MS/MS) and MS vendors (Agilent, Bruker, LECO, Sciex, Shimadzu, Thermo, and Waters). Used for untargeted metabolomics and lipidomics supporting any type of chromatography/mass spectrometry methods.

Resource Type: software resource

Defining Citation: PMID:25938372

Keywords: Data independent MS/MS deconvolution, metabolome analysis, untargeted metabolomics universal program, supports multiple instruments and MS vendors, untargeted metabolomics and lipidomics, chromatography, mass spectrometry

Availability: Free, Available for download, Freely available

Resource Name: MS-DIAL

Resource ID: SCR_023076

Alternate IDs: biotools:ms_dial

Alternate URLs: https://bio.tools/ms_dial, https://github.com/mtbinfo-team/mtbinfo.github.io, https://mtbinfo-team.github.io/mtbinfo.github.io/

License: MIT License

Record Creation Time: 20221229T050156+0000

Record Last Update: 20260725T191024+0000

Ratings and Alerts

No rating or validation information has been found for MS-DIAL.

No alerts have been found for MS-DIAL.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 80 mentions in open access literature.

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

Zhang XS, et al. (2025) Gut microbiota phospholipids regulate intestinal gene expression and can counteract the effects of antibiotic treatment. bioRxiv : the preprint server for biology.

Farag MA, et al. (2025) Metabolic responses of sea anemone and jellyfish to temperature and UV bleaching: Insights into stress adaptation using LCMS-based metabolomics, molecular networking and chemometrics. Journal of advanced research, 74, 255.

Liu X, et al. (2025) O-GlcNAcylation of nuclear proteins in the mouse liver exhibit daily oscillations that are influenced by meal timing. PLoS biology, 23(9), e3003400.

Furioso Ferreira R, et al. (2025) Untargeted lipidomics reveals unique lipid signatures of extracellular vesicles from porcine colostrum and milk. PloS one, 20(2), e0313683.

Bleve A, et al. (2025) ROR? Bridges Cancer-Driven Lipid Dysmetabolism and Myeloid Immunosuppression. Cancer discovery, 15(7), 1505.

Osorio-Méndez JF, et al. (2025) Exploring the mechanisms of action of the antimicrobial peptide CZS-5 against Trypanosoma cruzi epimastigotes: insights from metabolomics and molecular dynamics. Parasites & vectors, 18(1), 208.

Ismail WM, et al. (2025) GC-MS based nutritional and aroma profiling of date palm seeds collected from different Egyptian cultivars for valorization purposes. Scientific reports, 15(1), 16531.

Takano F, et al. (2025) Nitric Oxide May Adversely Affect the Metabolism and Viability of Retinal Organoids Derived from Patients with Leber Hereditary Optic Neuropathy. The American journal of pathology, 195(9), 1693.

Ljuji? J, et al. (2025) Aroma Profiling and Sensory Association of Six Raspberry Cultivars Using HS-SPME/GC-MS and OPLS-HDA. Foods (Basel, Switzerland), 14(21).

Kim H, et al. (2025) Modulation of the Gut Microbiome and Metabolomes by Fermentation Using a Probiotic Complex in a Dysbiosis-Associated Fecal Model. Journal of microbiology

and biotechnology, 35, e2506014.

Aya V, et al. (2025) Integrating metagenomics and metabolomics to study the gut microbiome and host relationships in sports across different energy systems. Scientific reports, 15(1), 15356.

Berger MMJ, et al. (2025) Grapevine cell response to carbon deficiency requires transcriptome and methylome reprogramming. Horticulture research, 12(1), uhae277.

Kumar M, et al. (2025) Triglycerides are an important fuel reserve for synapse function in the brain. Nature metabolism, 7(7), 1392.

Blaser M, et al. (2025) Gut microbiota phospholipids regulate intestinal gene expression and can counteract the effects of antibiotic treatment. Research square.

Antonini Cencicchio M, et al. (2025) Microbiota-produced immune regulatory bile acid metabolites control central nervous system autoimmunity. Cell reports. Medicine, 6(4), 102028.

Nam EH, et al. (2025) Folate Production by Streptococcus thermophilus IDCC 2201 and Its Impact on Human Gut Microbiota. Journal of microbiology and biotechnology, 35, e2502045.

Liu X, et al. (2025) Mealtime alters daily rhythm in nuclear O-GlcNAc proteome to regulate hepatic gene expression. bioRxiv : the preprint server for biology.

Yang Y, et al. (2025) Lipidomic profiling of skin surface lipids in a cohort of Chinese patients with rosacea. Scientific reports, 15(1), 39163.

Tan S, et al. (2025) Reveal the mechanism of hepatic oxidative stress in mice induced by photo-oxidation milk using multi-omics analysis techniques. Journal of advanced research, 72, 53.

Sooklim C, et al. (2025) Integrated omic analysis of a new flavor yeast strain in fermented rice milk. FEMS yeast research, 25.