

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

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 [kravitz2](#) .

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.

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*.

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.

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.

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.

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

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.

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.

Ljujić 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.

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

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.

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*.

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*.

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

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.