

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: 20260801T190748+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 127 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Sommella EM, et al. (2026) Lysolecithin reprogramming via LPCAT1 modulation restores endothelial function and prevents diabetes-associated dysmetabolism. *Cardiovascular diabetology*, 25(1), 45.

Ota R, et al. (2026) Mitochondria-targeting ACSL6 variant drives mitochondrial fragmentation potentially through local DHA-CoA production. *Scientific reports*, 16(1).

Xie L, et al. (2026) Integrated Flavoromics and Metabolomics Reveal Aroma and Bioactive Characteristics of Six Mainstream Citri Reticulatae Pericarpium Cultivars. *Foods (Basel, Switzerland)*, 15(12).

d'Adduzio L, et al. (2026) From rosemary and coffee to bioactive nanovesicles: exploring new frontiers in food functional ingredients. *NPJ science of food*, 10(1).

Kim H, et al. (2026) Comparison of Viable and Heat-Inactivated *Lactocaseibacillus rhamnosus* IDCC 3201: Anti-Pathogenic, Anti-Inflammatory, and Microbiota Modulating Effect. *Food science & nutrition*, 14(4), e71780.

Pettenuzzo S, et al. (2026) Decoding Heat-Shock Responses in *Vitis vinifera* L. by Metabolic, VOC, and Physiological Profiling: Toward the Identification of Volatile and Metabolic Biomarkers. *Journal of agricultural and food chemistry*, 74(6), 5796.

Mateo-López J, et al. (2026) Rabbit Does as a Model for Studying Plasma Metabolomic Adaptations Across Reproductive Stages: Insights from Parturition to Weaning. *Veterinary sciences*, 13(5).

Chianese U, et al. (2026) Glycolytic heterogeneity drives metabolic-targeted therapy in pancreatic ductal adenocarcinoma. *Signal transduction and targeted therapy*, 11(1), 25.

Martínez-Saldarriaga J, et al. (2026) Metabolomic insights into residual Carrot biomass from a bioprospecting approach across Colombian microclimates. *Scientific reports*, 16(1).

Fan Y, et al. (2026) Diel-driven variations of leaf dark respiration and metabolite levels in C3 and C4 grasses. *Plant physiology*, 201(2).

Wang J, et al. (2026) Multi-omics characterization of blood metabolites and cervical microbiota associated with estrus in simmental cattle. *Animal microbiome*, 8(1).

Verna G, et al. (2025) A Diet Fortified with Anthocyanin-Rich Extract (RED) Reduces Ileal Inflammation in a Senescence-Prone Mice Model of Crohn's-Disease-like Ileitis. *Antioxidants (Basel, Switzerland)*, 14(4).

Zhao S, et al. (2025) Dietary energy and protein gradients drive metabolic adaptation in growing-finishing yaks on the Qinghai-Tibet plateau. *Animal nutrition (Zhongguo xu mu shou yi xue hui)*, 21, 351.

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.

Thagulisi F, et al. (2025) Antimycobacterial activity of intertidal sediment-derived bacteria from False Bay, South Africa. *Frontiers in microbiology*, 16, 1745248.

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.