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 Lacticaseibacillus rhamnosusIDCC 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).

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.

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.

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).

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.

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.