

Resource Summary Report

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MetaboAnalystR

RRID:SCR_016723

Type: Tool

Proper Citation

MetaboAnalystR (RRID:SCR_016723)

Resource Information

URL: <https://github.com/xia-lab/MetaboAnalystR>

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Description: Software R package for comprehensive analysis of metabolomics data. Contains the R functions and libraries underlying MetaboAnalyst web server, including functions for metabolomic data analysis, visualization, and functional interpretation.

Resource Type: data processing software, software application, data visualization software, data analysis software, software resource

Defining Citation: [PMID:29955821](#)

Keywords: analysis, metabolomic, data, analysis, vixualization, functional, interpretation

Funding: Natural Sciences and Engineering Research Council of Canada ;
Canada Research Chairs ;
McGill Graduate Dean Award

Availability: Free, Available for download, Freely available

Resource Name: MetaboAnalystR

Resource ID: SCR_016723

License: GNU General Public License v3.0

Record Creation Time: 20220129T080332+0000

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Ratings and Alerts

No rating or validation information has been found for MetaboAnalystR.

No alerts have been found for MetaboAnalystR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 410 mentions in open access literature.

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

Liu J, et al. (2026) Human Umbilical Cord Plasma Metabolomics Uncover Potential Metabolites for Combating Aging. *Aging cell*, 25(1), e70295.

Deng S, et al. (2025) Identification and impact of microbiota-derived metabolites in ascites of ovarian and gastrointestinal cancer. *Cancer & metabolism*, 13(1), 21.

Divé I, et al. (2025) Plasma lipidomic and metabolomic profiles in high-grade glioma patients before and after 72-h presurgery water-only fasting. *Molecular oncology*, 19(8), 2249.

Franck L, et al. (2025) Elevated hexosylceramides in Parkinson's disease cause gene upregulations in neurons mimicking responses to pathogens. *NPJ Parkinson's disease*, 11(1), 268.

Luo B, et al. (2025) Resveratrol amplifies the anti-tumor effect of ?-PD-1 by altering the intestinal microbiome and PGD2 content. *Gut microbes*, 17(1), 2447821.

Sene N, et al. (2025) Impact of heterologous expression of Cannabis sativa tetraketide synthase on Phaeodactylum tricornutum metabolic profile. *Biotechnology for biofuels and bioproducts*, 18(1), 42.

Puvvula J, et al. (2025) Global metabolomic alterations associated with endocrine-disrupting chemicals among pregnant individuals and newborns. *Metabolomics : Official journal of the Metabolomic Society*, 21(1), 20.

Shu Z, et al. (2025) Effect of Four Different Initial Drying Temperatures on Biochemical Profile and Volatilome of Black Tea. *Metabolites*, 15(2).

Wang J, et al. (2025) Non-targeted LC-MS metabolomics reveals serum metabolites for high-altitude adaptation in Tibetan donkeys. *Scientific reports*, 15(1), 46.

Dai JM, et al. (2025) Gene editing, metabolomics, network pharmacology strategies to explore terpenoid content and anti-TMV activity in NtSPS1 knockout Nicotiana tabacum. *Scientific reports*, 15(1), 14581.

- Ni X, et al. (2025) Metabolomics analysis of five cultivars of *Sorghum bicolor* reveals the contribution of flavonoid pathway to tannin content. *PloS one*, 20(4), e0321649.
- Shao S, et al. (2025) Multidimensional Research on Hair Loss in Young Chinese Females With Oily Scalps. *Journal of cosmetic dermatology*, 24(9), e70426.
- Qin B, et al. (2025) Simultaneous Knockout of Tk1-SST and Tk1-FFT via CRISPR/Cas9 Enhances the Natural Rubber Accumulation in *Taraxacum kok-saghyz*. *Plant biotechnology journal*, 23(12), 5654.
- Gibb AA, et al. (2025) Integrated Systems Biology Identifies Disruptions in Mitochondrial Function and Metabolism as Key Contributors to HFpEF. *JACC. Basic to translational science*, 10(9), 101334.
- Zeng J, et al. (2025) Breath Analysis of Propofol and Associated Metabolic Signatures: A Pilot Study Using Secondary Electrospray Ionization-High-resolution Mass Spectrometry. *Anesthesiology*, 143(2), 345.
- Zhang G, et al. (2025) Integrated microbiology and metabolomics analysis reveal the fermentation process and the flavor development in cigar tobacco leaf. *Microbiology spectrum*, 13(6), e0102924.
- Nguyen HTT, et al. (2025) Metabolic signature of COVID-19 progression: potential prognostic markers for severity and outcome. *Metabolomics : Official journal of the Metabolomic Society*, 21(3), 70.
- Fernández-Pomares C, et al. (2025) Study of acute lethality, teratogenesis, and metabolomic changes of N-(2'-hydroxyphenyl)-2-propylpentanamide (HO-AAVPA) on *Artemia franciscana*. *Scientific reports*, 15(1), 18644.
- Feng W, et al. (2025) *Glaesserella parasuis* infection triggers endoplasmic reticulum stress-mediated pyroptosis via PERK/eIF2 α /ATF4 axis and metabolic reprogramming in porcine alveolar macrophages. *Veterinary research*, 56(1), 150.
- Wang T, et al. (2025) Metabolomics analysis and mRNA/miRNA profiling reveal potential cardiac regulatory mechanisms in Yili racehorses under different training regimens. *PloS one*, 20(7), e0322468.