

Resource Summary Report

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MetaboAnalyst

RRID:SCR_015539

Type: Tool

Proper Citation

MetaboAnalyst (RRID:SCR_015539)

Resource Information

URL: <https://www.metaboanalyst.ca/>

Proper Citation: MetaboAnalyst (RRID:SCR_015539)

Description: Web server for statistical, functional and integrative analysis of metabolomics data. Web based tool suite used for metabolomic data processing, normalization, multivariate statistical analysis, and data annotation, biomarker discovery and classification.

Synonyms: MetaboAnalyst 4.0, MetaboAnalyst 3.0

Resource Type: data analysis service, data access protocol, service resource, production service resource, software resource, analysis service resource, web service

Defining Citation: [PMID:29762782](#)

Keywords: statistical, functional, integrative, analysis, metabolomics, data, processing, annotation, biomarker, discovery

Funding: Alberta Ingenuity Fund ;
Alberta Life Sciences Institute ;
Canadian Institutes for Health Research ;
Genome Alberta ;
McGill University ;
Natural Sciences and Engineering Research Council of Canada ;
Genome Canada ;
Canada Research Chairs Program

Availability: Free, Available for download, Freely available, Tutorial available, Acknowledgement requested

Resource Name: MetaboAnalyst

Resource ID: SCR_015539

Alternate IDs: SCR_016717

Old URLs: <http://old.metaboanalyst.ca/MetaboAnalyst/>

License: GNU GPL

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260801T042749+0000

Ratings and Alerts

No rating or validation information has been found for MetaboAnalyst.

No alerts have been found for MetaboAnalyst.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10983 mentions in open access literature.

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

Chen D, et al. (2026) Spatially Resolved Multiomics Reveals Metabolic Remodeling and Autophagy Activation in Adamantinomatous Craniopharyngiomas. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e16965.

Li J, et al. (2026) NEDD4 regulates VEGF signaling and mTOR to promote angiogenesis and the cell cycle in steroid-induced osteonecrosis of the femoral head. Molecular medicine reports, 33(1).

Willoughby OS, et al. (2026) Ulk1(S555) inhibition alters nutrient stress response by prioritizing amino acid metabolism. Molecular metabolism, 103, 102288.

Chen J, et al. (2026) Integrated single-cell transcriptomics and proteomics elucidate the molecular mechanisms and detoxification strategy of rifampicin-induced hepatotoxicity. International journal of biological sciences, 22(1), 481.

Braz-de-Melo HA, et al. (2026) Zika Virus Reprograms Microglial Mitochondrial Metabolism to Support Immune Activation and Viral Replication: Omega-3 DHA Counteracts Neuroinflammation and Viral Persistence. Molecular neurobiology, 63(1), 341.

Xiang F, et al. (2026) Integrative multiomics analysis reveals the ameliorative effects of Xiasangju on metabolic dysfunction-associated steatohepatitis. Chinese medicine, 21(1),

3.

Chlebek C, et al. (2026) In C57BL/6J mice, weight loss in previously obese mice reduced bone mass and shifted the cortical bone metabolome. *Bone*, 202, 117690.

Ferreira RM, et al. (2026) Assessing essential oils from Macaronesia: a study on their efficacy against phytopathogenic and obligate biotrophic fungi. *Pest management science*, 82(1), 421.

Perez-Castro L, et al. (2026) Tryptophan metabolite atlas uncovers organ, age, and sex-specific variations. *FEBS open bio*, 16(1), 52.

Zhou X, et al. (2026) Evaluation of garlic skin as a forage source for goats: effects on performance, antioxidant capacity, immune function and ruminal health. *Animal bioscience*, 39(1), 250169.

Zhao L, et al. (2026) Inosine monophosphate overcomes the coexisting resistance of mcr-1 and blaNDM-1 in *Escherichia coli*. *Journal of advanced research*, 79, 331.

Verna G, et al. (2026) A missense mutation in *Muc2* promotes gut microbiome and metabolome-dependent colitis-associated tumorigenesis. *The Journal of clinical investigation*, 136(1).

Chang H, et al. (2026) The regulation of AsfR on tmRNA expression mediates bacterial motility and virulence in *Aeromonas veronii*. *Virulence*, 17(1), 2602247.

Adam D, et al. (2026) Comparative volatilomics identifies ubiquitous sulfur compounds inhibiting the fungal pathogen *Rasamsonia argillacea*. *Microbiology spectrum*, 14(1), e0266625.

Yu Y, et al. (2026) *Perilla frutescens* seeds enhance lamb immunity and antioxidant capacity via the microbiota-gut-liver-muscle axis. *Journal of animal science and biotechnology*, 17(1), 1.

Krug SA, et al. (2026) Lipidomic Comparison of Detergent-Soluble and Detergent-Resistant Lipid Domains Isolated From Rat Cerebellum and the Effect of Hypoxia-Ischemia Using UPLC-HDMSE. *Journal of mass spectrometry : JMS*, 61(1), e70000.

Sun R, et al. (2026) Detoxification of conifer antimicrobial defenses promotes entomopathogenic fungus infection of bark beetles. *Proceedings of the National Academy of Sciences of the United States of America*, 123(1), e2525513122.

Dowrick JM, et al. (2026) Integrated multi-omic and symptom clustering reveals lower-gastrointestinal disorders of gut-brain interaction heterogeneity. *Gut microbes*, 18(1), 2604871.

Castro RC, et al. (2026) Extracellular Vesicles Favor Early Peripheral Immunosenescence Through Modulation of the Senescence-Associated Secretory Phenotype in HIV Infection. *Aging cell*, 25(1), e70320.

Ding Y, et al. (2026) Targeting CPS1 attenuates lung cancer metastasis by regulating EMT through an epigenetic mechanism. *Theranostics*, 16(4), 1740.