

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

MetabolomeExpress

RRID:SCR_014670

Type: Tool

Proper Citation

MetabolomeExpress (RRID:SCR_014670)

Resource Information

URL: <https://www.metabolome-express.org>

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Description: A metabolomics database which contains GC/MS metabolomics datasets. General users can search a curated annotated metabolite database, a metabolite response statistics database, experimental datasets, and uncurated repositories. Registered users can use Metabolome Express for data processing and management.

Abbreviations: Mx

Synonyms: metabolomexpress.org, Metabolome Express (Mx)

Resource Type: database, data or information resource

Keywords: metabolomics, database, metabolite, data processing, data management, repository, data set

Availability: Free for non commercial purposes, Available to the metabolomics community, Free registration for the metabolomics community

Resource Name: MetabolomeExpress

Resource ID: SCR_014670

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260725T191208+0000

Ratings and Alerts

No rating or validation information has been found for MetabolomeExpress.

No alerts have been found for MetabolomeExpress.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Zhang P, et al. (2025) Systems analysis of long-term heat stress responses in the C4 grass *Setaria viridis*. *The Plant cell*, 37(4).

Li Y, et al. (2022) The mitochondrial LYR protein SDHAF1 is required for succinate dehydrogenase activity in *Arabidopsis*. *The Plant journal : for cell and molecular biology*, 110(2), 499.

Fairweather SJ, et al. (2021) A GC-MS/Single-Cell Method to Evaluate Membrane Transporter Substrate Specificity and Signaling. *Frontiers in molecular biosciences*, 8, 646574.

Mitchell MC, et al. (2020) Increasing growth and yield by altering carbon metabolism in a transgenic leaf oil crop. *Plant biotechnology journal*, 18(10), 2042.

Paananen J, et al. (2020) An omics perspective on drug target discovery platforms. *Briefings in bioinformatics*, 21(6), 1937.

Abadie C, et al. (2019) Plant sulphur metabolism is stimulated by photorespiration. *Communications biology*, 2, 379.

Yadav AK, et al. (2019) Wheat drought tolerance in the field is predicted by amino acid responses to glasshouse-imposed drought. *Journal of experimental botany*, 70(18), 4931.

Vanhercke T, et al. (2019) Up-regulation of lipid biosynthesis increases the oil content in leaves of *Sorghum bicolor*. *Plant biotechnology journal*, 17(1), 220.

Huang S, et al. (2018) Temperature-dependent metabolic adaptation of *Triticum aestivum* seedlings to anoxia. *Scientific reports*, 8(1), 6151.

Javed K, et al. (2018) Development of Biomarkers for Inhibition of SLC6A19 (B⁰AT1)-A Potential Target to Treat Metabolic Disorders. *International journal of molecular sciences*, 19(11).

Mitchell M, et al. (2017) Oil Accumulation in Transgenic Potato Tubers Alters Starch Quality and Nutritional Profile. *Frontiers in plant science*, 8, 554.

Wedd L, et al. (2017) Developmental and loco-like effects of a swainsonine-induced inhibition of β -mannosidase in the honey bee, *Apis mellifera*. *PeerJ*, 5, e3109.

Carroll AJ, et al. (2015) PhenoMeter: A Metabolome Database Search Tool Using Statistical Similarity Matching of Metabolic Phenotypes for High-Confidence Detection of

Functional Links. *Frontiers in bioengineering and biotechnology*, 3, 106.

Alonso A, et al. (2015) Analytical methods in untargeted metabolomics: state of the art in 2015. *Frontiers in bioengineering and biotechnology*, 3, 23.

Nakabayashi R, et al. (2014) Enhancement of oxidative and drought tolerance in *Arabidopsis* by overaccumulation of antioxidant flavonoids. *The Plant journal : for cell and molecular biology*, 77(3), 367.