Resource Summary Report

Generated by T1D on Aug 2, 2026

MAVEN

RRID:SCR_022491
Type: Tool

Proper Citation

MAVEN (RRID:SCR_022491)

Resource Information

URL: http://maven.princeton.edu/index.php

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Description: Software program for interactive processing of LC-MS-based metabolomics data. Open source cross platform metabolomics data analyser. Used to reduce complexity of metabolomics analysis by developing highly intitute interface for exploring and validating metabolomics data. Program features multi-file chromatographic aligner, peak-feature detector, isotope and adduct calculator, formula predictor, pathway visualizer, and isotopic flux animator. Data from both triple quadropole and full spectrum instruments is supported.

Synonyms: Metabolomic Analysis and Visualization ENgine

Resource Type: software resource, software toolkit

Defining Citation: PMID:21049934

Keywords: Metabolomics data analyser, metabolomics analysis, interface for exploring and validating metabolomics data,

Availability: Free, Available for download, Freely available

Resource Name: MAVEN

Resource ID: SCR_022491

Alternate URLs:
https://currentprotocols.onlinelibrary.wiley.com/doi/full/10.1002/0471250953.bi1411s37, https://github.com/eugenemel/maven/releases

Record Creation Time: 20220615T050153+0000

Record Last Update: 20260801T191108+0000

Ratings and Alerts

No rating or validation information has been found for MAVEN.

No alerts have been found for MAVEN.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 42 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Alam Y, et al. (2025) Variation in human gut microbiota impacts tamoxifen pharmacokinetics. mBio, 16(1), e0167924.

Roman-Rodriguez F, et al. (2025) An effective response to respiratory inhibition by a Pseudomonas aeruginosa excreted quinoline promotes Staphylococcus aureus fitness and survival in co-culture. bioRxiv : the preprint server for biology.

Jia N, et al. (2025) Mitochondrial bioenergetics stimulates autophagy for pathological MAPT/Tau clearance in tauopathy neurons. Autophagy, 21(1), 54.

Correnti S, et al. (2025) Untargeted metabolomics fingerprints in seminal plasma of patients with abnormal sperm morphology using high-performance liquid chromatography and mass spectrometry. Frontiers in molecular biosciences, 12, 1578998.

Al-Samerria S, et al. (2025) Biomarkers of GH deficiency identified in untreated and GH-treated Pit-1 mutant mice. Frontiers in endocrinology, 16, 1539797.

Fung DK, et al. (2025) A shared alarmone-GTP switch controls persister formation in bacteria. Nature microbiology, 10(7), 1617.

Roman-Rodriguez F, et al. (2025) An effective response to respiratory inhibition by a Pseudomonas aeruginosa excreted quinoline promotes Staphylococcus aureus fitness and survival in co-culture. Journal of bacteriology, 207(11), e0010125.

Chen YT, et al. (2025) A host-pathogen metabolic synchrony that facilitates disease tolerance. Nature communications, 16(1), 3729.

Bhupana JN, et al. (2025) Endolysosomal processing of neuron-derived signaling lipids regulates autophagy and lipid droplet degradation in astrocytes. Nature communications, 16(1), 5073.

Yang J, et al. (2025) Creatine mitigates neurogenesis impairment caused by defective DcpS decapping. Scientific reports, 15(1), 17915.

Giles BM, et al. (2025) Utilizing Serum-Derived Lipidomics with Protein Biomarkers and Machine Learning for Early Detection of Ovarian Cancer in the Symptomatic Population. Cancer research communications, 5(9), 1516.

La Vecchia S, et al. (2025) Small-molecule OPA1 inhibitors reverse mitochondrial adaptations to overcome therapy resistance in acute myeloid leukemia. Science advances, 11(42), eadx8662.

Illiano J, et al. (2025) A low-protein diet drives short- and long-term improvements in metabolic health in a mouse model of sleeve gastrectomy. Cell reports. Medicine, 6(12), 102471.

Wang J, et al. (2025) A shared alarmone-GTP switch underlies triggered and spontaneous persistence. Research square.

Cararo Lopes E, et al. (2025) Respiration defects limit serine synthesis required for lung cancer growth and survival. Nature communications, 16(1), 7621.

Sharma G, et al. (2025) IGF2BP3 redirects glycolytic flux to promote one-carbon metabolism and RNA methylation. Cell reports, 116330.

Choi D, et al. (2025) Strain-specific activation of aspergillic acid biosynthesis in Aspergillus oryzae NRRL 3483. Scientific reports, 15(1), 38755.

Ross RB, et al. (2024) PPAR?? Agonism Enhances Immune Response to Radiotherapy While Dietary Oleic Acid Results in Counteraction. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(9), 1916.

Yong J, et al. (2024) Impairment of lipid homeostasis causes lysosomal accumulation of endogenous protein aggregates through ESCRT disruption. eLife, 12.

Kuo LW, et al. (2024) Blocking Tryptophan Catabolism Reduces Triple-Negative Breast Cancer Invasive Capacity. Cancer research communications, 4(10), 2699.