Resource Summary Report

Generated by NIF on May 20, 2025

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.

Funding:

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

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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 28 mentions in open access literature.

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

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

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

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

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

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

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.

Goo YH, et al. (2024) Lipid droplet-associated hydrolase mobilizes stores of liver X receptor sterol ligands and protects against atherosclerosis. Nature communications, 15(1), 6540.

Behrmann CA, et al. (2024) Coordinated Targeting of S6K1/2 and AXL Disrupts Pyrimidine Biosynthesis in PTEN-Deficient Glioblastoma. Cancer research communications, 4(8), 2215.

Daitch AK, et al. (2024) OpgH is an essential regulator of Caulobacter morphology. mBio, 15(9), e0144324.

Hlavaty SI, et al. (2024) ACSS1-dependent acetate utilization rewires mitochondrial metabolism to support AML and melanoma tumor growth and metastasis. Cell reports, 43(12), 114988.

Kim J, et al. (2023) Impact of the pentose phosphate pathway on metabolism and pathogenesis of Staphylococcus aureus. PLoS pathogens, 19(7), e1011531.

Daitch AK, et al. (2023) OpgH is an essential regulator of Caulobacter morphology. bioRxiv: the preprint server for biology.

Jiang J, et al. (2023) Asparagine starvation suppresses histone demethylation through iron depletion. iScience, 26(4), 106425.

Xu H, et al. (2022) Glucagon changes substrate preference in gluconeogenesis. The Journal of biological chemistry, 298(12), 102708.

Leimanis-Laurens M, et al. (2021) The Feasibility of Studying Metabolites in PICU Multi-Organ Dysfunction Syndrome Patients over an 8-Day Course Using an Untargeted Approach. Children (Basel, Switzerland), 8(2).

Pak HH, et al. (2021) Fasting drives the metabolic, molecular and geroprotective effects of a calorie-restricted diet in mice. Nature metabolism, 3(10), 1327.

Siska PJ, et al. (2021) Kynurenine induces T cell fat catabolism and has limited suppressive effects in vivo. EBioMedicine, 74, 103734.

Woldemeskel SA, et al. (2020) The conserved transcriptional regulator CdnL is required for metabolic homeostasis and morphogenesis in Caulobacter. PLoS genetics, 16(1), e1008591.

Zhao S, et al. (2020) Dietary fructose feeds hepatic lipogenesis via microbiota-derived acetate. Nature, 579(7800), 586.

Ong WK, et al. (2020) Model-driven analysis of mutant fitness experiments improves genome-scale metabolic models of Zymomonas mobilis ZM4. PLoS computational biology, 16(8), e1008137.