Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 3, 2025

MaAsLin2

RRID:SCR_023241
Type: Tool

Proper Citation

MaAsLin2 (RRID:SCR_023241)

Resource Information

URL: https://bioconductor.org/packages/release/bioc/html/Maaslin2.html

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Description: SoftwareR package that identifies microbial taxa correlated with factors of interest using generalized linear models and mixed models.Used for efficiently determining multivariable association between clinical metadata and microbial meta'omic features.

Resource Type: software toolkit, software resource

Defining Citation: DOI:10.1371/journal.pcbi.1009442

Keywords: Microbiome Multivariable Associations with Linear Models,

Funding: NSF DEB-2028280;
NIAID U19AI110820;
NHGRI R01HG005220;
NIDDK R24DK110499;
NIDDK U54DK102557

Availability: Free, Available for download, Freely available

Resource Name: MaAsLin2

Resource ID: SCR_023241

Alternate URLs: https://huttenhower.sph.harvard.edu/maaslin/

License: MIT license

Record Creation Time: 20230207T050158+0000

Record Last Update: 20250503T061042+0000

Ratings and Alerts

No rating or validation information has been found for MaAsLin2.

No alerts have been found for MaAsLin2.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 117 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Fan J, et al. (2025) Potential roles of cigarette smoking on gut microbiota profile among Chinese men. BMC medicine, 23(1), 25.

Prajapati SK, et al. (2025) Protection of Alzheimer's disease progression by a human-origin probiotics cocktail. Scientific reports, 15(1), 1589.

Sampson TR, et al. (2025) Alpha synuclein overexpression can drive microbiome dysbiosis in mice. Scientific reports, 15(1), 4014.

Zhang X, et al. (2025) Intestinal TM6SF2 protects against metabolic dysfunction-associated steatohepatitis through the gut-liver axis. Nature metabolism, 7(1), 102.

Yunusbayev B, et al. (2025) Gut dysbiosis narrative in psoriasis: matched-pair approach identifies only subtle shifts correlated with elevated fecal calprotectin. Microbiology spectrum, 13(1), e0138224.

An L, et al. (2025) Gut microbiota modulation via fecal microbiota transplantation mitigates hyperoxaluria and calcium oxalate crystal depositions induced by high oxalate diet. Gut microbes, 17(1), 2457490.

Özcan E, et al. (2025) Dietary fiber content in clinical ketogenic diets modifies the gut microbiome and seizure resistance in mice. Nature communications, 16(1), 987.

Obregon-Gutierrez P, et al. (2025) Pig nasal and rectal microbiotas are involved in the antibody response to Glaesserella parasuis. Scientific reports, 15(1), 2347.

Fan Y, et al. (2025) Path analysis of factors influencing length of stay and hospitalisation expenses for oral cancer patients in tertiary hospitals in southeastern China: a cross-sectional study. BMJ open, 15(1), e087060.

Winters AD, et al. (2025) The Gut Microbiome Regulates the Psychomotor Effects and Context-Dependent Rewarding Responses to Cocaine in Germ-Free and Antibiotic-Treated Animal Models. Microorganisms, 13(1).

Wyatt NJ, et al. (2025) Evaluation of intestinal biopsy tissue preservation methods to facilitate large-scale mucosal microbiota research. EBioMedicine, 112, 105550.

Bartsch S, et al. (2024) Chlorhexidine digluconate mouthwash alters the oral microbial composition and affects the prevalence of antimicrobial resistance genes. Frontiers in microbiology, 15, 1429692.

Seyoum Y, et al. (2024) Faecal microbiota of schoolchildren is associated with nutritional status and markers of inflammation: a double-blinded cluster-randomized controlled trial using multi-micronutrient fortified rice. Nature communications, 15(1), 5204.

Raju SC, et al. (2024) Microbial-derived imidazole propionate links the heart failure-associated microbiome alterations to disease severity. Genome medicine, 16(1), 27.

Reasoner SA, et al. (2024) Longitudinal profiling of the intestinal microbiome in children with cystic fibrosis treated with elexacaftor-tezacaftor-ivacaftor. mBio, 15(2), e0193523.

McDermott G, et al. (2024) Insights into the Adolescent Cystic Fibrosis Airway Microbiome Using Shotgun Metagenomics. International journal of molecular sciences, 25(7).

Xu L, et al. (2024) Intratumor microbiome-derived butyrate promotes chemo-resistance in colorectal cancer. Frontiers in pharmacology, 15, 1510851.

Zhao L, et al. (2024) Temporal development and potential interactions between the gut microbiome and resistome in early childhood. Microbiology spectrum, 12(2), e0317723.

Devarakonda SLS, et al. (2024) Gut microbial features and dietary fiber intake predict gut microbiota response to resistant starch supplementation. Gut microbes, 16(1), 2367301.

Vidal-Verdú À, et al. (2024) The highly differentiated gut of Pachnoda marginata hosts sequential microbiomes: microbial ecology and potential applications. NPJ biofilms and microbiomes, 10(1), 65.