

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

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 resource, software toolkit

Defining Citation: [DOI:10.1371/journal.pcbi.1009442](https://doi.org/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: 20260808T190537+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 212 mentions in open access literature.

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

Fields BC, et al. (2026) High dietary fiber is associated with improved outcomes in patients with melanoma and sarcoma treated with immunotherapy regardless of gut microbiome dysbiosis and social vulnerability. *Cancer*, 132(6), e70335.

Meyer M, et al. (2026) Metabolic stress sensing by epithelial RXR? links westernization of diet with Crohn's disease. *Cell metabolism*, 38(3), 512.

Jacob SM, et al. (2026) The Oral Microbiome in Amyotrophic Lateral Sclerosis Shows Differentially Abundant Organisms in Limb Versus Bulbar Onset Disease: A Binational Study. *Journal of clinical neurology (Seoul, Korea)*, 22(1), 66.

Slevin MC, et al. (2026) Challenges associate with microbiome diversity, glucocorticoids, and condition in a wild songbird. *Scientific reports*, 16(1).

Rodríguez-Barreras R, et al. (2026) Seasonality shapes gut microbiota composition in two sympatric sea urchins. *PeerJ*, 14, e20918.

Nikolaidis M, et al. (2026) Compositional and functional differences of gut microbiome and metabolome inform pathogenesis of cholestatic liver disease. *Gut microbes*, 18(1), 2655793.

Hoskinson C, et al. (2026) *Saccharomycetes* and *Malassezia* fungi associate with early-life gut maturation and allergic disease risk in childhood. *Nature communications*, 17(1).

U?ur Aydin Z, et al. (2026) A clinical next-generation sequencing study on the microbial profiles of asymptomatic apical periodontitis in type 2 diabetic and systemically healthy individuals following adjuvant antimicrobial photodynamic therapy. *Clinical oral investigations*, 30(2), 75.

de Albuquerque Lemos DE, et al. (2026) Synbiotic Nutraceutical Mitigates Gestational Diabetes Effects and Cardiovascular Dysfunction in Rat Offspring. *Molecular nutrition & food research*, 70(1), e70340.

Brinck JE, et al. (2026) pH regulates gut bacterial tryptophan metabolism. *NPJ biofilms and microbiomes*, 12(1).

Langlois A, et al. (2026) Impact of differential dietary concentrations of cobalt, manganese and zinc on gastrointestinal microbiome and resistome of lactating dairy cattle. *Animal microbiome*, 8(1).

Day R, et al. (2026) A Randomised, Double-Blind, Placebo-Controlled Trial of Probiotic and Postbiotic Strains in Healthy Adults with Self-Reported Anxiety: Effects on Mood, Vitality, Quality of Life and Perceived Stress. *Brain sciences*, 16(4).

Bakker L, et al. (2026) Elevated graminoid cover co-occurs with Ascomycota-dominated soils in Longyearbyen, Svalbard. *FEMS microbiology ecology*, 102(3).

Dühr H, et al. (2026) Lifestyle associates with unique resistome and microbiome signatures in children. *BMC microbiology*, 26(1).

Birkeland S, et al. (2026) A naturalized gut microbiome interacts with dietary fibers to protect against colonic inflammation. *Gut microbes*, 18(1), 2649435.

Sun Y, et al. (2026) Rapid and noninvasive artificial intelligence-assisted diagnostic method for oral squamous cell carcinoma. *NPJ digital medicine*, 9(1).

Al-Andoli M, et al. (2026) Fecal melatonin as a biomarker of emerging circadian maturity and gut microbiota in infancy. *Npj biological timing and sleep*, 3(1).

Calusinska M, et al. (2026) Phylum-wide propionate degradation and its potential connection to poly-gamma-glutamate biosynthesis in *Candidatus Cloacimonadota* phylum. *The ISME journal*, 20(1).

Comer L, et al. (2026) From forest to farm: the impact of a broad spectrum of lifestyles on the porcine gut microbiota. *Current research in microbial sciences*, 10, 100576.

Zielińska K, et al. (2026) A large-scale comparative metagenomic analysis of short-read sequencing platforms indicates high taxonomic concordance and functional analysis challenge. *mSystems*, 11(6), e0171425.