

Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

LEfSe

RRID:SCR_014609

Type: Tool

Proper Citation

LEfSe (RRID:SCR_014609)

Resource Information

URL: <http://huttenhower.sph.harvard.edu/galaxy>

Proper Citation: LEfSe (RRID:SCR_014609)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on February 28,2023. Algorithm for high-dimensional biomarker discovery and explanation that identifies genes, pathways, or taxa characterizing the differences between two or more biological conditions. The algorithm identifies features that are statistically different among biological classes, then performs additional tests to assess whether these differences are consistent with respect to expected biological behavior. Statistical significance and biological relevance are emphasized., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: LDA Effect Size

Resource Type: algorithm resource, software resource

Defining Citation: [DOI:10.1186/gb-2011-12-6-r60](https://doi.org/10.1186/gb-2011-12-6-r60)

Keywords: microbiome, algorithm, biomarker, genomic feature, web application

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: LEfSe

Resource ID: SCR_014609

Alternate IDs: OMICS_07818

Alternate URLs: <https://sources.debian.org/src/lefse/>

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260819T044410+0000

Ratings and Alerts

No rating or validation information has been found for LEfSe.

No alerts have been found for LEfSe.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7242 mentions in open access literature.

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

Liu YY, et al. (2026) Assessing whether rectal swabs reflect appendiceal microbiota profiles in acute appendicitis: a 16S rRNA-based comparative study. Gut pathogens, 18(1), 10.

Yin S, et al. (2026) Association of Intratumoral Microbiota with Prognosis in Head and Neck Squamous Cell Carcinoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(9), 1799.

Liu H, et al. (2026) Vaginal microbiota transfer ameliorates cesarean-associated neurodevelopmental deficits in mice via N-bc2S1P synthesis on neonatal skin. Cell host & microbe, 34(5), 942.

Kong JY, et al. (2026) Cross-site oral and esophageal microbiome signatures define diagnostic patterns and reveal mechanistic drivers of ESCC. iScience, 29(8), 116667.

Jiang F, et al. (2026) Long-Term Elevated CO2 Improves Soil Health and Rice Yields in Paddy Fields. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(11), e03190.

Liu J, et al. (2026) Characterization of flavor metabolites of cocultured fermented high acidity fruit wines, and the correlation between organic acids and esters. RSC advances, 16(8), 6931.

Hou P, et al. (2026) Comparative Analysis of the Gut Bacterial Community in Laboratory-Reared and Seasonally Field-Released Larvae of the *Antheraea pernyi*. Insects, 17(1).

Wang M, et al. (2026) Responses of *Panax notoginseng* (Burk.) F.H. Chen to cadmium stress: hormetic effects on growth, antioxidant systems, and rhizosphere microbial dynamics. Frontiers in microbiology, 17, 1741415.

Samee-Ullah , et al. (2026) *Arachis hypogaea* L. Root Extract Mitigates Testosterone Propionate-Induced Benign Prostatic Hyperplasia in ICR Mice by Suppressing Inflammation, Androgen Receptors, and Dihydrotestosterone. Food science & nutrition, 14(3), e71682.

Jing M, et al. (2026) The utilization of a magneto-fluorescence sequential labeling strategy for the visualization and tracking of intestinal translocation of oral microbiota. *Materials today. Bio*, 38, 103062.

Yu K, et al. (2026) Environmental Enrofloxacin Exposure as a Modifiable Driver of Mitochondria-Mediated Intestinal Aging and Barrier Dysfunction. *Aging cell*, 25(5), e70526.

Aciole Barbosa D, et al. (2026) Dysbiosis of the enteric DNA virome correlates with the development of cachexia in a murine Lewis lung carcinoma (LLC) model. *Archives of virology*, 171(3).

Zhao J, et al. (2026) Endophyte diversity and its correlation with naphthoquinone metabolites in cultivated *Arnebia euchroma* across different growth years. *PloS one*, 21(5), e0348171.

Hou P, et al. (2026) Characterization of Gut Bacteria in *Blepharipa tibialis* (Diptera: Tachinidae) Larvae Parasitizing Different Developmental Stages of *Antheraea pernyi*. *Insects*, 17(5).

Feng Y, et al. (2026) A microbial consortium constructed with gut microbes of Chinese native chicken breeds protects chicks against *Salmonella* infection. *Journal of animal science and biotechnology*, 17(1).

Qiao YC, et al. (2026) Effects of different mulching practices on soil microbial community structure, function, and interaction networks in a chieh-qua cultivation. *Frontiers in microbiology*, 17, 1691984.

Wang X, et al. (2026) Additive effects of fecal microbiota transplantation and infliximab on gut microbiome and metabolome in refractory inflammatory bowel disease patients. *mSystems*, 11(4), e0077425.

Paeslack N, et al. (2026) Toll-like receptor 2 impacts small intestinal villus capillarization through epithelial dual oxidase 2. *Redox biology*, 95, 104212.

Mao Y, et al. (2026) Divergence of Dioecious *Hippophae tibetana* Endophytic Communities and Investigation of Their Key Driving Factors. *Microorganisms*, 14(6).

Zhang L, et al. (2026) Identification of key gut microbiota and microbial QTL in contributing to the significant differences in body weight between two Chinese local chicken breeds. *Animal genetics*, 57(1), e70060.