

Resource Summary Report

Generated by [ASWG](#) on Aug 2, 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: software resource, algorithm 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: 20260801T191056+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 7008 mentions in open access literature.

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

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.

Kim CW, et al. (2025) Gut dysbiosis from high-salt diet promotes glioma via propionate-mediated TGF- β activation. *The Journal of experimental medicine*, 222(8).

Jin S, et al. (2025) Disruption of the transsulfuration pathway by acute kidney injury causes intestinal damage. *iScience*, 28(10), 113511.

Beckers KF, et al. (2025) Pregnancy-specific shifts in the maternal microbiome and metabolome in the BPH/5 mouse model of superimposed preeclampsia. *Physiological genomics*, 57(3), 115.

Zhang T, et al. (2025) Intratumoral *Fusobacterium nucleatum* Recruits Tumor-Associated Neutrophils to Promote Gastric Cancer Progression and Immune Evasion. *Cancer research*, 85(10), 1819.

Abukhiran IM, et al. (2025) Mucosal Microbiome Markers of Complete Pathologic Response to Neoadjuvant Therapy in Rectal Carcinoma. *Cancer research communications*, 5(5), 756.

Pu Y, et al. (2025) Gut metagenome and plasma metabolome profiles in older adults suggest pyruvate metabolism as a link between sleep quality and frailty. *Cell reports*, 44(10), 116297.

Chero-Sandoval L, et al. (2025) Comparative assessment of phenotypic markers in patients with chronic inflammation: Differences on *Bifidobacterium* concerning liver status. *European journal of clinical investigation*, 55(2), e14339.

Hicks C, et al. (2025) Oral, Vaginal, and Stool Microbial Signatures in Patients With Endometriosis as Potential Diagnostic Non-Invasive Biomarkers: A Prospective Cohort Study. *BJOG : an international journal of obstetrics and gynaecology*, 132(3), 326.

Wu JJ, et al. (2025) Melatonin alleviates high temperature exposure induced fetal growth restriction via the gut-placenta-fetus axis in pregnant mice. *Journal of advanced research*, 68, 131.

Lee JG, et al. (2025) Loss of Cutibacterium is responsible for chronic kidney disease-associated pruritus in patients on dialysis. *Kidney research and clinical practice*, 44(1), 176.

Lin H, et al. (2025) Metagenome-based diversity and functional analysis of culturable microbes in sugarcane. *Microbiology spectrum*, 13(1), e0198224.

Nara M, et al. (2025) Experimental Murine Periodontitis Increases Salivary Gland IgA-Producing B Cells Following Oral Dysbiosis. *Microbiology and immunology*, 69(2), 114.

You W, et al. (2025) Capsaicin Modulates Ruminal Fermentation and Bacterial Communities in Beef Cattle with High-Grain Diet-Induced Subacute Ruminal Acidosis. *Microorganisms*, 13(1).

Lv L, et al. (2025) Seasonal Variations in the Structure and Function of the Gut Flora in Adult Male Rhesus Macaques Reared in Outdoor Colonies. *Microorganisms*, 13(1).

Wang L, et al. (2025) The Combination of Shading and Potassium Application Regulated the Bulb Active Ingredients Accumulation in *Fritillaria thunbergii* Miq. by Affecting Rhizosphere Microecology. *Microorganisms*, 13(1).

Vicente-Valor J, et al. (2025) Fecal Microbiota Strongly Correlates with Tissue Microbiota Composition in Colorectal Cancer but Not in Non-Small Cell Lung Cancer. *International journal of molecular sciences*, 26(2).

Lv L, et al. (2025) Quinazolinone Derivative MR2938 Protects DSS-Induced Barrier Dysfunction in Mice Through Regulating Gut Microbiota. *Pharmaceuticals (Basel, Switzerland)*, 18(1).

Liu Y, et al. (2025) The Assembly of Fish Gut Microbiomes Through Habitat Variation Provides Insight Into Redbelly Tilapia Invading a Large Subtropical River. *Ecology and evolution*, 15(2), e70945.

Li Q, et al. (2025) Time-restricted feeding promotes glucagon-like peptide-1 secretion and regulates appetite via tryptophan metabolism of gut *Lactobacillus* in pigs. *Gut microbes*, 17(1), 2467185.