

Resource Summary Report

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[mothur](#)

RRID:SCR_011947

Type: Tool

Proper Citation

mothur (RRID:SCR_011947)

Resource Information

URL: <http://www.mothur.org/>

Proper Citation: mothur (RRID:SCR_011947)

Description: An open-source software package for describing and comparing microbial communities. It incorporates the functionality of a number of computational tools, calculators, and visualization tools.

Resource Type: standalone software, software resource, software application

Defining Citation: [DOI:10.1128/AEM.01541-09](https://doi.org/10.1128/AEM.01541-09)

Keywords: microbiome, microbial ecology, open source, bioinformatics, standalone software

Availability: Open source

Resource Name: mothur

Resource ID: SCR_011947

Alternate IDs: OMICS_01518

Alternate URLs: <https://github.com/mothur/mothur/releases/tag/v1.38.1.1>,
<https://sources.debian.org/src/mothur/>

Record Creation Time: 20220129T080307+0000

Record Last Update: 20260808T190508+0000

Ratings and Alerts

No rating or validation information has been found for mothur.

No alerts have been found for mothur.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6270 mentions in open access literature.

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

Lobel L, et al. (2026) Dietary sulfur amino acids enhance anti-tumor immunity in colon cancer via an NKT cell-XCL1-cDC1 circuit. *Immunity*, 59(6), 1708.

Belanche A, et al. (2026) Increasing Rumen Microbial Diversity in Goats Favours the Adaptation to High-Concentrate Diets With Minor Effects on Feed Utilization. *Journal of animal physiology and animal nutrition*, 110(1), 148.

Iqbal A, et al. (2026) Compartment-specific archaeal responses to alpine wetland grasslandification reveal distinct taxonomic, functional, and network reorganization across soil-root interfacial continua. *Journal of advanced research*, 83, 475.

Zhang H, et al. (2026) VGLL4 modulates Paneth cells and sustains intestinal homeostasis. *EMBO reports*, 27(5), 1353.

Li C, et al. (2026) Altered rumen bacterial flora is associated with increased lipogenesis of adipose tissue in obese dairy cows before calving. *Microbiome*, 14(1), 66.

Chen D, et al. (2026) Integrated analysis of gut microbiota structure and metabolic function in patients with cirrhosis and refractory ascites. *Biomedical reports*, 24(2), 28.

Liu A, et al. (2026) Esketamine alleviates COPD-depression comorbidity in rats via MAPK/NF- κ B inhibition and gut-lung-brain axis modulation. *Journal of neuroinflammation*, 23(1), 68.

Ou T, et al. (2026) *Pseudomonas koreensis* HLG18 improves mulberry waterlogging resilience in riparian zone by synergistically modulating endophytic microbiome and metabolic profiles. *Microbiology spectrum*, 14(3), e0295925.

Vazquez-Munoz R, et al. (2026) *Enterococcus faecalis* induces H₂O₂-mediated epithelial cell death and enhances *Candida albicans* virulence in oropharyngeal candidiasis. *mSphere*, 11(1), e0082225.

Wang Z, et al. (2026) Integrated analysis of the gut mycobiota and plasma metabolome reveals mortality and age-specific characteristics in sepsis. *BMC microbiology*, 26(1).

Park N, et al. (2026) Inulin-Butyrate Nanogel for Modulation of Gut Microbiome, Intestinal Barrier, and Regulatory T-Cells in Colitis. *Small* (Weinheim an der Bergstrasse, Germany), 22(27), e13252.

Wang T, et al. (2026) Probiotic potential of *Companilactobacillus alimentarius* Y4 in alleviating ciprofloxacin-resistant *Salmonella*-induced intestinal inflammation through microbiota-metabolite modulation. *BMC microbiology*, 26(1).

Bixilia-Sanchez M, et al. (2026) Effects of microbial inoculum optimization on biomethane production from paper mill solid residues. *Brazilian journal of microbiology* : [publication of the Brazilian Society for Microbiology], 57(1).

Ibrahim M, et al. (2026) Gut Microbiome-Sphingolipid Metabolism-Brain Axis Interactions: Neuroprotective Effects of Amitriptyline as Functional Inhibitor of Acid Sphingomyelinase in a Mouse Model of Tauopathy. *Journal of neuroimmune pharmacology* : the official journal of the Society on NeuroImmune Pharmacology, 21(1), 3.

Chen JM, et al. (2026) Microbiota-derived IPA mitigates post-stroke neuroinflammation by inhibiting TREM2-dependent pyroptosis. *Journal of neuroinflammation*, 23(1), 47.

Hao D, et al. (2026) *Lactobacillus salivarius* SNK-6 improves egg quality, yolk nutrient composition, and yolk flavor profile in laying hens via modulation of tissue metabolites and Cecal microbiomes. *Poultry science*, 105(5), 106649.

Souza JM, et al. (2026) Rumen and cecum microbial dynamics following narasin inclusion in Nellore cattle diets. *Frontiers in microbiology*, 17, 1645979.

Ma L, et al. (2026) Association analysis of the differences in intestinal flora and clinical tumor indicators among colorectal cancer patients. *Frontiers in cellular and infection microbiology*, 16, 1742672.

Ghaffar T, et al. (2026) Meditation in Motion: Sport Type and Meditation Level Shape Gut Microbiota Profiles in Aikido and Tai Chi Practitioners. *Microorganisms*, 14(2).

Chen W, et al. (2026) Diet-Induced Modulation of Gut Microbiota Affects Meat Quality in Grass Carp (*Ctenopharyngodon idellus*). *Microorganisms*, 14(2).