

Resource Summary Report

Generated by [NIF](#) on Aug 28, 2026

[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: software application, software resource, standalone software

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: 20260821T193948+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 [NIF](#) .

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.

Patrmanová T, et al. (2026) Tree species influence soil carbon quality but not total storage across horizons: European beech on Dystric Cambisol and Norway spruce on Entic Podzol. *PloS one*, 21(6), e0350656.

Chen S, et al. (2026) Effects of dietary standardized ileal digestible crude protein levels on growth performance, meat quality, and Cecal microbiota of Arbor Acres broilers. *Poultry science*, 105(8), 107084.

Wang M, et al. (2026) Characteristics of the rhizosphere microbial communities of different mulberry varieties in saline soil. *Scientific reports*, 16(1).

Sui J, et al. (2026) Soil-Nutrient Depletion and Microbial Community Restructuring in Continuous Celery Cropping: Opposing Responses of Bacteria and Fungi. *Biology*, 15(10).

Li H, et al. (2026) Effects of an Astragalus membranaceus Stem and Leaf-Angelica sinensis Stem and Leaf Mixture on Serum Parameters, Gut Microbiota, and Metabolomic Profiles in Simmental Weaned Bull Calves. *Veterinary sciences*, 13(5).

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.

Xie Y, et al. (2026) Effects of Mobile Sheepfold and Supplementary Feeding on Growth Performance, Serum Indicators and Gut Microbiota in Natural Grazing Gangba Sheep. *Biology*, 15(4).

Liu Y, et al. (2026) Microbial Differences in Rhizospheric and Ednophytic Microbiota in Healthy Chinese Yam Roots and Those Affected by Yam End Black Disease. *Biology*,

15(4).

Chen Q, et al. (2026) Relationship Between *Histomonas meleagridis* Infection and Cecal Intestinal Microbiota of Chickens. *Veterinary sciences*, 13(2).

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).

Zhao S, et al. (2026) Effects of Graphene Oxide on Phosphorus Uptake in the Arbuscular Mycorrhizal Symbiosis of *Medicago sativa* L. *Plants* (Basel, Switzerland), 15(7).

Xu C, et al. (2026) Microbial-enzyme synergistic treatment stabilizes surface microbial communities and enhances flavor quality during tobacco leaf aging. *Bioresources and bioprocessing*, 13(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.

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.

Xie Y, et al. (2026) Effect of altitudes on serum parameters, metabolome, and gut microbiota in yaks on the Qinghai-Tibet Plateau. *Microbiology spectrum*, 14(2), e0254925.