

Resource Summary Report

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STAMP

RRID:SCR_018887

Type: Tool

Proper Citation

STAMP (RRID:SCR_018887)

Resource Information

URL: <https://beikolab.cs.dal.ca/software/STAMP>

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Description: Open source software package for analyzing taxonomic or metabolic profiles that promotes best practices in choosing appropriate statistical techniques and reporting results. Graphical software package that provides statistical hypothesis tests and exploratory plots for analyzing taxonomic and functional profiles. Supports tests for comparing pairs of samples or samples organized into two or more treatment groups.

Synonyms: STAMP v2.1.3, statistical analysis of taxonomic and functional profiles

Resource Type: data processing software, software toolkit, data analysis software, data visualization software, software resource, software application

Defining Citation: [PMID:25061070](#)

Keywords: Statistical analysis, taxonomic profile, functional profile, metabolic profile, statistical hypothesis test, plot, sample, sample group, sample pair comparison, bio.tools

Funding: Genome Atlantic ;
Natural Sciences and Engineering Research Council of Canada ;
Australian Research Council ;
Canada Foundation for Innovation ;
Canada Research Chairs program ;
Dalhousie Faculty of Computer Science ;
Dalhousie Centre for Comparative Genomics and Evolutionary Bioinformatics ;
Tula Foundation Killam Trust

Availability: Free, Freely available

Resource Name: STAMP

Resource ID: SCR_018887

Alternate IDs: biotools:stamp-metagenomic

Alternate URLs: <https://github.com/dparks1134/STAMP>,
<https://github.com/dparks1134/STAMP/releases>, <https://bio.tools/stamp-metagenomic>

License: GNU GPL v3.0

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Ratings and Alerts

No rating or validation information has been found for STAMP.

No alerts have been found for STAMP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 504 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Huang J, et al. (2026) Emulsified essential oil-organic acid mixtures in drinking water reduce Salmonella Typhimurium infection and improve intestinal health in broilers. Poultry science, 105(1), 106138.

Ding W, et al. (2026) Impact of carbapenem-resistant Klebsiella pneumoniae infection on gut microbiota and host immunity: a case-control study. Microbiology spectrum, 14(1), e0297525.

Liu Q, et al. (2026) Biocontrol efficiency and mechanism of novel Streptomyces luomodensis SCA4-21 against banana Fusarium wilt. Microbiology spectrum, 14(1), e0296824.

Shao C, et al. (2025) Age and diet affect self-resilience of intestinal microbiome in mice. Frontiers in microbiology, 16, 1507396.

M??rquez-Sanz R, et al. (2025) The Establishment of a Terrestrial Macroalga Canopy Impacts Microbial Soil Communities in Antarctica. Microbial ecology, 88(1), 4.

Boehm KM, et al. (2025) Multimodal histopathologic models stratify hormone receptor-positive early breast cancer. Nature communications, 16(1), 2106.

- Chen H, et al. (2025) Structural characteristics of intestinal microbiota of domestic ducks with different body sizes. *Poultry science*, 104(4), 104930.
- Pei X, et al. (2025) Leptin Receptor Deficiency-Associated Diabetes Disrupts Lacrimal Gland Circadian Rhythms and Contributes to Dry Eye Syndrome. *Investigative ophthalmology & visual science*, 66(1), 19.
- Gao CY, et al. (2025) Abdominal ultrasound stimulation alleviates DSS-induced colitis and behavioral disorders in mice by mediating the microbiota-gut-brain axis balance. *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*, 22(2), e00494.
- Wu Y, et al. (2025) Feed efficiency and fecal microbiome of nursery pigs from parents with divergent breeding value for feed conversion ratio. *Translational animal science*, 9, txaf026.
- Yang Y, et al. (2025) *Paederia scandens* extract alleviates obesity via modulating the gut microbiota and serum metabolome disorder. *Frontiers in microbiology*, 16, 1554537.
- Liang T, et al. (2025) Investigation on the aerobic methanotrophic community and the dominant taxon *Methylomarinum* in seagrass ecosystem. *Environmental microbiome*, 20(1), 67.
- Medeiros MJ, et al. (2025) Abiotic factors are the primary determinants of endemic Hawaiian *Drosophila* microbiome assembly. *bioRxiv : the preprint server for biology*.
- Zhang Q, et al. (2025) Variation of Meat Quality and Relationship to Gut Microbiota Among Different Pig Breeds. *Microbial biotechnology*, 18(4), e70139.
- He T, et al. (2025) Responses of Microbial Community to Heterogeneous Dissolved Organic Nitrogen Constituents in the Hyporheic Zones of Treated Sewage-Dominated Rivers. *Microbial ecology*, 88(1), 71.
- Issilbayeva A, et al. (2025) Polyphenol-mediated microbiome modulation in STEMI patients: a pilot study. *Frontiers in medicine*, 12, 1522373.
- Li J, et al. (2025) Alterations in urinary microbiota composition in children with overactive bladder: insights from 16S rRNA gene sequencing. *Scientific reports*, 15(1), 40455.
- Zhao J, et al. (2025) Effects of preceding crops on potassium dynamics, bacterial communities in tobacco-planted soils, and potassium allocation in tobacco plants. *Scientific reports*, 15(1), 40046.
- Kitsanayanyong L, et al. (2025) Exploring the gut microbiota of Pacific white shrimp (*Litopenaeus vannamei*) suffering pale shrimp disease. *PloS one*, 20(11), e0336700.
- Khaengraeng C, et al. (2025) Fungal and Bacterial Communities Associated with Northern Corn Leaf Blight in Resistant and Susceptible Sweet Corn. *The plant pathology journal*, 41(6), 736.