Resource Summary Report

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SILVA

RRID:SCR_006423

Type: Tool

Proper Citation

SILVA (RRID:SCR_006423)

Resource Information

URL: http://www.arb-silva.de

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Description: High quality ribosomal RNA databases providing comprehensive, quality checked and regularly updated datasets of aligned small (16S/18S, SSU) and large subunit (23S/28S, LSU) ribosomal RNA (rRNA) sequences for all three domains of life (Bacteria, Archaea and Eukarya). Supplementary services include a rRNA gene aligner, online tools for probe and primer evaluation and optimized browsing, searching and downloading on the website. The extensively curated SILVA taxonomy and the new non-redundant SILVA datasets provide an ideal reference for high-throughput classification of data from next-generation sequencing approaches. Alignment tool, SINA, is available for download as well as available for use online.

Synonyms: SILVA rRNA database, SILVA - high quality ribosomal RNA databases

Resource Type: data or information resource, database

Defining Citation: PMID:23193283, PMID:24293649, PMID:17947321

Keywords: ribosomal rna, gene sequence, gene, sequence, alignment, taxonomy, 16s, 18s, 23s, 28s, phylogeny, probe, primer, alignment service, fish, arb, ribocon, geoblast, bio.tools

Funding: Max Planck Society;

DFG GL 553/4-1

Availability: Free, Freely available

Resource Name: SILVA

Resource ID: SCR_006423

Alternate IDs: biotools:silva, OMICS_01514, nif-0000-03464, rid_000103

Alternate URLs: https://bio.tools/silva

License URLs: http://www.arb-silva.de/footer/privacy-statement/

Record Creation Time: 20220129T080236+0000

Record Last Update: 20250426T055855+0000

Ratings and Alerts

No rating or validation information has been found for SILVA.

No alerts have been found for SILVA.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10838 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Wyatt NJ, et al. (2025) Evaluation of intestinal biopsy tissue preservation methods to facilitate large-scale mucosal microbiota research. EBioMedicine, 112, 105550.

Yuan Q, et al. (2025) Glycosidic linkages of fungus polysaccharides influence the antiinflammatory activity in mice. Journal of advanced research, 67, 161.

Mishra S, et al. (2025) Gut microbiome-derived bacterial extracellular vesicles in patients with solid tumours. Journal of advanced research, 68, 375.

Varela JL, et al. (2025) The gills and skin microbiota of five pelagic fish species from the Atlantic Ocean. International microbiology: the official journal of the Spanish Society for Microbiology, 28(1), 95.

Garcia-Fernandez H, et al. (2025) Trimethylamine Oxidation into the Proatherogenic Trimethylamine N-Oxide Is Higher in Coronary Heart Disease Men: From the CORDIOPREV Study. The world journal of men's health, 43(1), 249.

Zhao C, et al. (2025) Dietary supplementation with compound microecological preparations:

effects on the production performance and gut microbiota of lactating female rabbits and their litters. Microbiology spectrum, 13(1), e0006724.

Zhang Y, et al. (2025) Time-decay patterns and irregular disturbance: contrasting roles of abundant and rare microbial communities in dynamic coastal seawater. Applied and environmental microbiology, 91(1), e0175124.

Domnariu H, et al. (2025) Long-term impact of tillage on microbial communities of an Eastern European Chernozem. Scientific reports, 15(1), 642.

Liu F, et al. (2025) Gut Microbiome and Metabolite Characteristics Associated With Different Clinical Stages in Non-Small Cell Lung Cancer Patients. Cancer management and research, 17, 45.

Azpiazu-Muniozguren M, et al. (2025) Prokaryotic Diversity and Community Distribution in the Complex Hydrogeological System of the Añana Continental Saltern. Microbial ecology, 87(1), 171.

Jones JA, et al. (2025) Microbiome composition and turnover in the face of complex lifecycles and bottlenecks: insights through the study of dung beetles. Applied and environmental microbiology, 91(1), e0127824.

Chen L, et al. (2025) Gut bacteria Prevotellaceae related lithocholic acid metabolism promotes colonic inflammation. Journal of translational medicine, 23(1), 55.

Beauchemin ET, et al. (2025) Dextran sodium sulfate-induced colitis alters the proportion and composition of replicating gut bacteria. mSphere, 10(1), e0082524.

Li Q, et al. (2025) Characteristics of the Bacterial Community in Alpine Meadows in Response to Altitude and Aspect in the Qilian Mountains, Northwest China. Ecology and evolution, 15(1), e70769.

Sanchez-Orozco NY, et al. (2025) The blood pressure lowering effect of beetroot juice is impaired in periodontitis and recovered after periodontal treatment. NPJ biofilms and microbiomes, 11(1), 10.

Neumann CJ, et al. (2025) First-year dynamics of the anaerobic microbiome and archaeome in infants' oral and gastrointestinal systems. mSystems, 10(1), e0107124.

Mangin CC, et al. (2025) Magnetotactic bacteria affiliated with diverse Pseudomonadota families biomineralize intracellular Ca-carbonate. The ISME journal, 19(1).

Diakaki M, et al. (2025) Spinach seed microbiome characteristics linked to suppressiveness against Globisporangium ultimum damping-off. FEMS microbiology ecology, 101(2).

Pan C, et al. (2025) Soil bacterial and fungal diversity and composition respond differently to desertified system restoration. PloS one, 20(1), e0309188.

Stothart MR, et al. (2025) Population Dynamics and the Microbiome in a Wild Boreal Mammal: The Snowshoe Hare Cycle and Impacts of Diet, Season and Predation Risk.

Molecular ecology, 34(3), e17629.