Resource Summary Report

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SILVA

RRID:SCR_006423
Type: Tool

Proper Citation

SILVA (RRID:SCR_006423)

Resource Information

URL: https://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: German Collection of Microorganisms and Cell Cultures

Resource Name: SILVA

Resource ID: SCR_006423

Alternate IDs: biotools:silva, OMICS_01514, nif-0000-03464, r3d100011323, rid_000103

Alternate URLs: https://bio.tools/silva, https://doi.org/10.17616/R3FP60

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

Record Creation Time: 20220129T080236+0000

Record Last Update: 20260729T044135+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 13429 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Ma Y, et al. (2026) Lactobacillus rhamnosus and Xylo-oligosaccharides improve meat quality and modulate the microbiota composition of Magang geese aged 22-50 days. Poultry science, 105(1), 106090.

Zhang Y, et al. (2026) Modulation of intestinal health and metabolism by dietary Portulaca oleracea L. extract enhances growth performance, immune function, and meat quality in Wenchang chickens. Poultry science, 105(1), 106098.

Chen Z, et al. (2026) Ryegrass improves carcass trait of meat geese effects of dietary ryegrass supplementation on growth performance, carcass traits, and gut microbiota in meat geese. Poultry science, 105(1), 106035.

Shahin A, et al. (2026) Bariatric Surgery Alters Oral Microbiome: Evidence From Obese Patients and a Mouse Model. International dental journal, 76(1), 104026.

Ge Z, et al. (2026) High-fat diet induces senescence in ADSCs via CDK4 ubiquitination-mediated cell cycle disruption, contributing to impaired glucose tolerance. Molecular metabolism, 103, 102293.

Hu K, et al. (2026) Grazing practice affects the growth performance, meat quality and nutritional composition, and fecal microbiota of fattening yaks. Animal bioscience, 39(1), 250052.

Sugimoto T, et al. (2026) Association of Preoperative Gut Microbiota Disturbances with Postoperative Infectious Complications in Major Gastrointestinal Cancer Surgery: A Large-Scale Exploratory Study. Annals of surgical oncology, 33(1), 224.

Lv X, et al. (2026) Blautia coccoides-derived metabolite trimethylamine-N-oxide exacerbates Alzheimer's disease progression via targeting HIF1?? signaling. Gut microbes, 18(1), 2605768.

Maruyama D, et al. (2026) Gut microbiome-derived propionate reprograms alveolar macrophages metabolically and regulates lung injury responses in mice. Gut microbes, 18(1), 2606486.

Han P, et al. (2026) Integrated multi-omics reveals microbial and metabolic mechanisms driving enhanced fermentation quality in cigar tobacco leaves with exogenous additives. Bioresources and bioprocessing, 13(1), 2.

Kawai H, et al. (2026) DSOK-0011 Potentially Regulates Circadian Misalignment and Affects Gut Microbiota Composition in Activity-Based Anorexia Model. The International journal of eating disorders, 59(1), 54.

Park S, et al. (2026) Chronic PET-Microplastic Exposure: Disruption of Gut-Liver Homeostasis and Risk of Hepatic Steatosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(1), e12030.

Wang Z, et al. (2026) Rotation-driven changes in physicochemical properties modulate soil microbial diversity and community complexity in tobacco-woad soils. Microbiology spectrum, 14(1), e0301624.

Obayashi N, et al. (2026) Prevalence and Ecological Role of Streptococcus toyakuensis in Saliva of Healthy Young Individuals. International dental journal, 76(1), 103987.

Hundam S, et al. (2026) The impact of embryonic thermal manipulation on the microbiome of the jejunum and cecum in response to post-hatch acute heat stress. Poultry science, 105(1), 106212.

Zhao H, et al. (2026) Early life fecal microbiota transplantation enhances fermentation potential by changing the microbial profiles in broiler chickens. Poultry science, 105(1), 106189.

Song W, et al. (2026) Distinct patterns of microbial association across deep-sea corals from the Western Pacific Magellan Seamounts. Microbiology spectrum, 14(1), e0209325.

Sampath V, et al. (2026) Integrating bacteriophage with high-and low-protein feeding strategies enhances performance, gut health, and environmental sustainability in ROSS 308 broilers. Poultry science, 105(1), 106135.

Li X, et al. (2026) Metformin attenuates colitis via blocking STAT3 acetylation by reducing acetyl-CoA production. Journal of advanced research, 79, 393.

Mun D, et al. (2026) Bovine colostrum-derived extracellular vesicles modulate gut microbiota and alleviate atopic dermatitis via the gut-skin axis. Drug delivery and translational research, 16(1), 367.