

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: 20260804T043301+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 [RRID](#) .

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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

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.