Resource Summary Report

Generated by NIF on Apr 30, 2025

Greengenes

RRID:SCR_002830

Type: Tool

Proper Citation

Greengenes (RRID:SCR_002830)

Resource Information

URL: http://greengenes.secondgenome.com/downloads

Proper Citation: Greengenes (RRID:SCR_002830)

Description: Database that provides access to the current and comprehensive 16S rRNA gene sequence alignment for browsing, blasting, probing, and downloading. The data and tools can assist the researcher in choosing phylogenetically specific probes, interpreting microarray results, and aligning/annotating novel sequences. The 16S rRNA gene database provides chimera screening, standard alignment, and taxonomic classification using multiple published taxonomies. ARB users can use Greengenes to update local databases.

Resource Type: database, data or information resource

Defining Citation: PMID:16820507

Keywords: microbiome, rrna, 16s rrna, gene, dna, rna, chimera, alignment, taxonomic

classification, taxonomy, FASEB list

Funding: Department of Energy contract DE-AC02-05CH11231

Availability: Open source

Resource Name: Greengenes

Resource ID: SCR_002830

Alternate IDs: OMICS_01512, nif-0000-02927

Alternate URLs: http://greengenes.lbl.gov

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Record Creation Time: 20220129T080215+0000

Record Last Update: 20250430T055154+0000

Ratings and Alerts

No rating or validation information has been found for Greengenes.

No alerts have been found for Greengenes.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2905 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Hicks C, et al. (2025) Oral, Vaginal, and Stool Microbial Signatures in Patients With Endometriosis as Potential Diagnostic Non-Invasive Biomarkers: A Prospective Cohort Study. BJOG: an international journal of obstetrics and gynaecology, 132(3), 326.

Kashchenko G, et al. (2025) Investigating Aerobic Hive Microflora: Role of Surface Microbiome of Apis Mellifera. Biology, 14(1).

Kordahi MC, et al. (2025) Mucus-penetrating microbiota drive chronic low-grade intestinal inflammation and metabolic dysregulation. Gut microbes, 17(1), 2455790.

Li Y, et al. (2025) Effects of adding a kind of compound bio-enzyme to the diet on the production performance, serum immunity, and intestinal health of Pekin ducks. Poultry science, 104(1), 104506.

Zhang X, et al. (2025) Lentinan's effect on gut microbiota and inflammatory cytokines in 5-FU-induced mucositis mice. AMB Express, 15(1), 11.

Sarrazin-Gendron R, et al. (2025) Improving microbial phylogeny with citizen science within a mass-market video game. Nature biotechnology, 43(1), 76.

Mi R, et al. (2025) Anti-oxidation enhancement, inflammation alleviation, and microbial composition optimization of using tussah (Antheraea pernyi) silk fibroin peptides for hyperglycaemia remission. PloS one, 20(1), e0317891.

Sall I, et al. (2025) Gut dysbiosis was inevitable, but tolerance was not: temporal responses of the murine microbiota that maintain its capacity for butyrate production correlate with sustained antinociception to chronic morphine. Gut microbes, 17(1), 2446423.

Lin CY, et al. (2025) Comparison of mucosal microbiota populations across the gastrointestinal tract of healthy dogs. Animal microbiome, 7(1), 2.

Dash M, et al. (2025) Unveiling microbial diversity in slightly and moderately magnesium deficient acidic soils. Scientific reports, 15(1), 3696.

Jiang Z, et al. (2025) The RodentGPOmics Atlas: a comprehensive database of rodent biology for genomes and pathogens. Nucleic acids research, 53(D1), D1144.

Yang Z, et al. (2025) Selenium enrichment enhances the alleviating effect of Lactobacillus rhamnosus GG on alcoholic liver injury in mice. Current research in food science, 10, 100964.

Corcione S, et al. (2025) Influence of ESBL colonization status on gut microbiota composition during allogenic hematopoietic stem cell transplantation. Scientific reports, 15(1), 1275.

Kim MJ, et al. (2025) Cell free supernatants of Bifidobacterium adolescentis and Bifidobacterium longum suppress the tumor growth in colorectal cancer organoid model. Scientific reports, 15(1), 935.

Guodong W, et al. (2025) Fecal occult blood affects intestinal microbial community structure in colorectal cancer. BMC microbiology, 25(1), 34.

Liu W, et al. (2025) Anaerobic fermentation of soybean meal by Bacillus subtilis ED-3-7 and its effect on the intestinal microbial community of chicken. Poultry science, 104(1), 104564.

Fan J, et al. (2025) Potential roles of cigarette smoking on gut microbiota profile among Chinese men. BMC medicine, 23(1), 25.

Zhang H, et al. (2025) Dynamic development of gut microbiota and metabolism during and after weaning of kittens. Animal microbiome, 7(1), 10.

Tian T, et al. (2025) Pepper root exudate alleviates cucumber root-knot nematode infection by recruiting a rhizobacterium. Plant communications, 6(1), 101139.

Yang W, et al. (2025) A metric and its derived protein network for evaluation of ortholog database inconsistency. BMC bioinformatics, 26(1), 6.