Resource Summary Report

Generated by NIF on Apr 28, 2025

RAST Server

RRID:SCR_014606

Type: Tool

Proper Citation

RAST Server (RRID:SCR_014606)

Resource Information

URL: http://rast.nmpdr.org

Proper Citation: RAST Server (RRID:SCR_014606)

Description: A SEED-quality automated service that annotates complete or nearly complete bacterial and archaeal genomes across the entire phylogenetic tree. RAST can also be used to analyze draft genomes.

Abbreviations: RAST

Synonyms: Rapid Annotation using Subsystem Technology, Rapid Annotation using

Subsystem Technology Server

Resource Type: production service resource, service resource

Defining Citation: PMID:18261238

Keywords: microbiome, seed, annotate, genome, bacteria, archaea, service, bio.tools

Funding: National Science Foundation 0850546;

NIAID contract HHSN272200900040C

Availability: Free for the scientific community, Login required

Resource Name: RAST Server

Resource ID: SCR 014606

Alternate IDs: biotools:theseed

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

Record Creation Time: 20220129T080321+0000

Record Last Update: 20250426T060413+0000

Ratings and Alerts

No rating or validation information has been found for RAST Server.

No alerts have been found for RAST Server.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 823 mentions in open access literature.

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

Mitchell DD, et al. (2025) Draft genome dataset of Streptomyces griseoincarnatus strain R-35 isolated from tidal pool sediments. Data in brief, 58, 111235.

Yakubovskij VI, et al. (2025) Phage vB_KlebPS_265 Active Against Resistant/MDR and Hypermucoid K2 Strains of Klebsiella pneumoniae. Viruses, 17(1).

Wang H, et al. (2025) In Silico Exploration of Staphylococcal Cassette Chromosome mec (SCCmec) Evolution Based on Phylogenetic Relationship of ccrAB/C. Microorganisms, 13(1).

Zhang Z, et al. (2025) Clonal Spread and Genetic Mechanisms Underpinning Ciprofloxacin Resistance in Salmonella enteritidis. Foods (Basel, Switzerland), 14(2).

Wang M, et al. (2025) Antimicrobial Resistance Genes in Clinical Escherichia coli Strains from Livestock and Poultry in Shandong Province, China During 2015-2020. Antibiotics (Basel, Switzerland), 14(1).

Almirón C, et al. (2025) Functional and genomic analyses of plant growth promoting traits in Priestia aryabhattai and Paenibacillus sp. isolates from tomato rhizosphere. Scientific reports, 15(1), 3498.

Yibar A, et al. (2025) Genomic Insight into Vibrio Isolates from Fresh Raw Mussels and Ready-to-Eat Stuffed Mussels. Pathogens (Basel, Switzerland), 14(1).

Ofosu Appiah F, et al. (2025) Emergence of Carbapenem-Resistant blaPOM-1 Harboring Pseudomonas otitidis Isolated from River Water in Ghana. Antibiotics (Basel, Switzerland), 14(1).

Park EJ, et al. (2025) Characterization of Broad Spectrum Bacteriophage vB ESM-pEJ01 and Its Antimicrobial Efficacy Against Shiga Toxin-Producing Escherichia coli in Green Juice. Microorganisms, 13(1).

Arce-Aceves MF, et al. (2025) Fitness costs of Mycobacterium tuberculosis resistant to rifampicin is compensated by rapid Th2 polarization mediated by early and high IL-4 production during mice infection. Scientific reports, 15(1), 2811.

Xie Y, et al. (2025) The prevalence of optrA-carrying Enterococci in the vaginal micro-ecology of pregnant women in late pregnancy. Microbiology spectrum, 13(1), e0213524.

Zhao J, et al. (2024) PhageGE: an interactive web platform for exploratory analysis and visualization of bacteriophage genomes. GigaScience, 13.

Yoo S, et al. (2024) Designing phage cocktails to combat the emergence of bacteriophage-resistant mutants in multidrug-resistant Klebsiella pneumoniae. Microbiology spectrum, 12(1), e0125823.

Hu M, et al. (2024) Antimicrobial susceptibility and genetic characteristics of multi-drug resistant Acinetobacter baumannii isolates in Northwest China. Frontiers in microbiology, 15, 1293725.

Wu C, et al. (2024) Clinical manifestations, antimicrobial resistance and genomic feature analysis of multidrug-resistant Elizabethkingia strains. Annals of clinical microbiology and antimicrobials, 23(1), 32.

Shang B, et al. (2024) A Novel Transposon Tn7709 Harbors Multidrug Resistance Genes in a Pathogenic Aeromonas media Strain QST31. Microorganisms, 12(3).

Schmidt AK, et al. (2024) Targeted deletion of Pf prophages from diverse Pseudomonas aeruginosa isolates has differential impacts on quorum sensing and virulence traits. Journal of bacteriology, 206(5), e0040223.

Tathode MS, et al. (2024) Whole-genome analysis suggesting probiotic potential and safety properties of Pediococcus pentosaceus DSPZPP1, a promising LAB strain isolated from traditional fermented sausages of the Basilicata region (Southern Italy). Frontiers in microbiology, 15, 1268216.

Wang X, et al. (2024) Genome sequence of Shiga toxin-producing Escherichia coli jumbo bacteriophage vB_EcoM_JNE01. Microbiology resource announcements, 13(2), e0114523.

Mahadi WSW, et al. (2024) Complete genome sequence data of an Antarctic bacterium Arthrobacter sp. EM1 from the freshwater lake of the King George Island. Data in brief, 52, 109841.