

Resource Summary Report

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Gubbins

RRID:SCR_016131

Type: Tool

Proper Citation

Gubbins (RRID:SCR_016131)

Resource Information

URL: <https://sanger-pathogens.github.io/gubbins/>

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Description: Software application as an algorithm that iteratively identifies loci containing elevated densities of base substitutions while concurrently constructing a phylogeny based on the putative point mutations outside of these regions. It is used for phylogenetic analysis of genome sequences and generating highly accurate reconstructions under realistic models of short-term bacterial evolution., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: Gubbins: Genealogies Unbiased By recombInations In Nucleotide Sequences

Resource Type: data analysis software, data processing software, sequence analysis software, software application, software resource

Defining Citation: [PMID:25414349](https://pubmed.ncbi.nlm.nih.gov/25414349/)

Keywords: rapid, phylogenetic, analysis, large, sample, recombinant, bacteria, whole, genome, sequence, loci, elevated, densities, base, substitution, mutation, outside, region, evolution, alignment

Funding: Wellcome Trust 098051

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Gubbins

Resource ID: SCR_016131

Alternate IDs: OMICS_14386

Alternate URLs: <https://sources.debian.org/src/gubbins/>

License: GNU

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260905T132804+0000

Ratings and Alerts

No rating or validation information has been found for Gubbins.

No alerts have been found for Gubbins.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 604 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Sia CM, et al. (2025) Distinct adaptation and epidemiological success of different genotypes within *Salmonella enterica* serovar Dublin. *eLife*, 13.

van Hal SJ, et al. (2025) *Neisseria meningitidis* Serogroup Y Sequence Type 1466 and Urogenital Infections. *Emerging infectious diseases*, 31(1), 86.

Gallichan S, et al. (2025) Optimized methods for the targeted surveillance of extended-spectrum beta-lactamase-producing *Escherichia coli* in human stool. *Microbiology spectrum*, 13(1), e0105824.

Michels R, et al. (2025) Clinical relevance of *Staphylococcus saccharolyticus* detection in human samples: a retrospective cohort study. *Infection*, 53(1), 145.

Gawor J, et al. (2025) ICESp1109, a Novel Hybrid Integrative Conjugative Element of Macrolide-Resistant *Streptococcus pyogenes* Serotype M77 Collected Between 2003 and 2017 in Poland. *The Journal of infectious diseases*, 231(3), e521.

Wu S, et al. (2025) The clinical impact and dissemination of carbapenemase-producing *Enterobacter*: a genome-based study in China. *Microbiology spectrum*, 13(9), e0116625.

Zhang F, et al. (2025) Tracking international and regional dissemination of the KPC/NDM co-producing *Klebsiella pneumoniae*. *Nature communications*, 16(1), 5574.

Lebreton F, et al. (2025) High genetic relatedness between multidrug resistant bacteria before and after the 2022 invasion of Ukraine. *Genome medicine*, 17(1), 74.

Brangsch H, et al. (2025) Comparative genomics of *Mycobacterium avium* subsp. *hominissuis* strains within a group of captive lowland tapirs. *PloS one*, 20(4), e0320499.

Tan Z, et al. (2025) Origin of *Neisseria meningitidis* clonal complex 4821. *Emerging microbes & infections*, 14(1), 2515461.

Hrala M, et al. (2025) Whole genome sequences of nine *Typhlocyba equigenitalis* strains isolated in the Czech Republic between 1982-2021: Molecular dating suggests a common ancestor at the time of Roman Empire. *PloS one*, 20(1), e0315946.

Tewolde R, et al. (2025) Comparative genomic analysis of *Mycoplasma pneumoniae* isolated in the United Kingdom, between 2016 and 2024. *BMC genomics*, 26(1), 893.

Mageto LM, et al. (2025) Genomic characterization of *Vibrio cholerae* isolated from clinical and environmental sources during the 2022-2023 cholera outbreak in Kenya. *Frontiers in microbiology*, 16, 1603736.

Anderson T, et al. (2025) Characterization of *Staphylococcus argenteus* in Christchurch, New Zealand, and comparison to global strains. *Access microbiology*, 7(7).

Wang Q, et al. (2025) A strain defined as a novel species in the *Acinetobacter* genus co-harboring chromosomal associated tet(X3) and plasmid associated bla NDM-1 from a beef cattle farm in Hebei, China. *Frontiers in cellular and infection microbiology*, 15, 1594982.

Gan X, et al. (2025) Whole Genome Sequencing-Based Taxonomic Identification of Dulcitol-Positive *Cronobacter dublinensis* subsp. *beijingensis* subsp. nov. and *Cronobacter dublinensis* subsp. *infanticibi* subsp. nov. from Infant Cereals in China. *Current microbiology*, 82(10), 477.

Ma Y, et al. (2025) Tracing the evolutionary trajectory of the IncP-2 plasmid co-harboring bla IMP-45 and bla VIM-1: an outbreak of *Pseudomonas aeruginosa* co-producing IMP-45 and VIM-1 carbapenemases in China. *Frontiers in cellular and infection microbiology*, 15, 1623241.

Xu JT, et al. (2025) Diverse impacts of different rpoB mutations on the anti-tuberculosis efficacy of capreomycin. *EBioMedicine*, 117, 105776.

Seth-Smith HMB, et al. (2025) Genomic analysis of *Legionella pneumophila* in the drinking water system of a large building over 25 years. *Microbial genomics*, 11(5).

Bednarczuk L, et al. (2025) Phenotypic and genetic heterogeneity of *Acinetobacter baumannii* in the course of an animal chronic infection. *Microbial genomics*, 11(2).