Resource Summary Report

Generated by <u>dkNET</u> on May 20, 2025

PIRATE

RRID:SCR_017265 Type: Tool

Proper Citation

PIRATE (RRID:SCR_017265)

Resource Information

URL: https://github.com/SionBayliss/PIRATE

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Description: Software pangenomics toolbox for clustering diverged orthologues in bacteria. Used to identify and classify orthologous gene families in bacterial pangenomes over wide range of sequence similarity thresholds.

Synonyms: Pangenome Iterative Refinement And Threshold Evaluation

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

Defining Citation: DOI:10.1101/598391

Keywords: Pangenome, clustering, genomics, bacteria, orthologue, gene, sequence, amino acid, nucleotide, dataset, bio.tools

Funding:

Availability: Free, Available for download, Freely available

Resource Name: PIRATE

Resource ID: SCR_017265

Alternate IDs: biotools:PIRAtE

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

License: GNU GPL v3

Record Creation Time: 20220129T080334+0000

Record Last Update: 20250519T203953+0000

Ratings and Alerts

No rating or validation information has been found for PIRATE.

No alerts have been found for PIRATE.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

Feng Y, et al. (2024) Population genomics uncovers global distribution, antimicrobial resistance, and virulence genes of the opportunistic pathogen Klebsiella aerogenes. Cell reports, 43(8), 114602.

Dewi DAPR, et al. (2024) Detection and genetic characterization of multidrug-resistant staphylococci isolated from public areas in an international airport. Scientific reports, 14(1), 27738.

Decena-Segarra LP, et al. (2024) Transposable Element Diversity and Activity Patterns in Neotropical Salamanders. Molecular biology and evolution, 41(11).

Henning PM, et al. (2023) Annotation of the Turnera subulata (Passifloraceae) Draft Genome Reveals the S-Locus Evolved after the Divergence of Turneroideae from Passifloroideae in a Stepwise Manner. Plants (Basel, Switzerland), 12(2).

de Korne-Elenbaas J, et al. (2022) The Neisseria gonorrhoeae Accessory Genome and Its Association with the Core Genome and Antimicrobial Resistance. Microbiology spectrum, 10(3), e0265421.

White H, et al. (2022) Signatures of selection in core and accessory genomes indicate different ecological drivers of diversification among Bacillus cereus clades. Molecular ecology, 31(13), 3584.

Liu L, et al. (2021) Genome-Based Taxonomy of Brevundimonas with Reporting

Brevundimonas huaxiensis sp. nov. Microbiology spectrum, 9(1), e0011121.

Wang J, et al. (2021) Gigantic Genomes Provide Empirical Tests of Transposable Element Dynamics Models. Genomics, proteomics & bioinformatics, 19(1), 123.

Klai K, et al. (2020) Screening of Helicoverpa armigera Mobilome Revealed Transposable Element Insertions in Insecticide Resistance Genes. Insects, 11(12).

Petit RA, et al. (2020) Bactopia: a Flexible Pipeline for Complete Analysis of Bacterial Genomes. mSystems, 5(4).

Zhou Z, et al. (2020) Accurate reconstruction of bacterial pan- and core genomes with PEPPAN. Genome research, 30(11), 1667.

Bayliss SC, et al. (2019) PIRATE: A fast and scalable pangenomics toolbox for clustering diverged orthologues in bacteria. GigaScience, 8(10).