

Resource Summary Report

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Unicycler

RRID:SCR_024380

Type: Tool

Proper Citation

Unicycler (RRID:SCR_024380)

Resource Information

URL: <https://github.com/rwick/Unicycler>

Proper Citation: Unicycler (RRID:SCR_024380)

Description: Software assembly pipeline for bacterial genomes. Used for resolving bacterial genome assemblies from short and long sequencing reads. Can assemble Illumina only read sets where it functions as SPAdes-optimiser. Can assembly long read only sets for PacBio or Nanopore where it runs miniasm+Racon pipeline.

Synonyms: unicycler

Resource Type: software resource, software toolkit

Defining Citation: [PMID:28594827](#)

Keywords: assembly pipeline, bacterial genomes, resolving bacterial genome assemblies, short and long sequencing reads,

Availability: Free, Available for download, Freely available,

Resource Name: Unicycler

Resource ID: SCR_024380

Alternate IDs: OMICS_14591

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

License: GNU

Record Creation Time: 20230830T050217+0000

Record Last Update: 20260912T200117+0000

Ratings and Alerts

No rating or validation information has been found for Unicycler.

No alerts have been found for Unicycler.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 612 mentions in open access literature.

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

Withatanung P, et al. (2026) Genomic diversity and clade clustering of Burkholderia pseudomallei and B. thailandensis prophages with soil-derived phages. iScience, 29(2), 114658.

Boncompagni SR, et al. (2026) NDM-63: a novel NDM metallo- β -lactamase variant in the L3 loop, from a Klebsiella pneumoniae clinical isolate. Antimicrobial agents and chemotherapy, 70(2), e0128625.

Kimani MW, et al. (2026) Rapid and recent evolution of fetA phase variability among hyperinvasive MenW:cc11 disease isolates. Microbial genomics, 12(2).

Rao X, et al. (2026) Mechanisms of constipation alleviation by Lacticaseibacillus paracasei BGI-N2: insights from genes to phenotypes. BMC microbiology, 26(1).

Zhou M, et al. (2026) Genomic Insights Into Carbapenem-Resistant Klebsiella pneumoniae in Pediatric Bloodstream Infections in Zhejiang, China (2019-2024). Journal of clinical laboratory analysis, 40(10), e70232.

Hung SW, et al. (2026) Endophytic Biostimulant Pyrroloquinoline Quinone Enhances Banana Growth and Primes Immunity Against Fusarium Wilt. Physiologia plantarum, 178(3), e70913.

Seth-Smith HMB, et al. (2026) Investigation of VIM-1-producing Enterobacter spp. across Switzerland: clonal dissemination and plasmid transmission. Antimicrobial agents and chemotherapy, 70(6), e0182725.

Aja-Macaya P, et al. (2026) Emergence of New Delhi Metallo- β -Lactamase 14-Producing Klebsiella pneumoniae Sequence Type 147 Clone in Spain and Outbreak in the Canary Islands. Emerging infectious diseases, 32(1), 63.

Qi H, et al. (2026) Emergence of blaNDM-5 and international dissemination of an ST26 Salmonella Thompson resistance gene-enriched sublineage. BMC microbiology, 26(1).

Jones D, et al. (2026) Whole genome sequencing data analysis identified a cefotaxime-resistant Empedobacter brevis GBW-1 isolate from ground beef encoding a novel metallo-beta-lactamase variant, blaEBR-6. Data in brief, 65, 112547.

Zhang H, et al. (2026) Genomic investigation of the vancomycin-resistant *Enterococcus faecium* in a tertiary hospital in China. *Antimicrobial resistance and infection control*, 15(1).

Sathapondecha P, et al. (2026) Genomic and GWAS-Based Insights into Antimicrobial Resistance in *Shewanella algae* Isolated from *Penaeus monodon*. *Antibiotics (Basel, Switzerland)*, 15(4).

Gonzaga-Pérez MC, et al. (2026) *Azotobacter vinelandii* AmrZ is a global regulator linking alginate production and c-di-GMP homeostasis. *Microbiology (Reading, England)*, 172(3).

Souza HDF, et al. (2026) Persistence and Environmental Dissemination of a Novel mcr-10.6 Allele in *Enterobacter vontholyi* Across a Poultry Wastewater Treatment System. *Microorganisms*, 14(6).

Pellegrinetti TA, et al. (2026) Pseudogenization of the chaperonin system in '*Candidatus Phytoplasma pruni*' revealed by genome sequencing and comparative genomics. *Microbial genomics*, 12(6).

Xavier TS, et al. (2026) Genomic Insights into a New *Burkholderia cenocepacia* Sequence Type Linked to Cepacia Syndrome in Cystic Fibrosis. *Current microbiology*, 83(8).

Núñez-García LÁ, et al. (2026) Genomic insights into the resistome, mobilome and functional adaptation of *Achromobacter xylosoxidans* across clinical and environmental contexts. *Microbial genomics*, 12(6).

Sevillano E, et al. (2026) Saprophyticin S: A Novel Saposin-like, Leaderless Bacteriocin Produced by *Staphylococcus saprophyticus* P1CEA4 of Porcine Origin. *Probiotics and antimicrobial proteins*, 18(3), 4940.

Lyu Y-Y, et al. (2026) First report of an *Escherichia coli* ST131 clinical isolate co-harboring blaKPC-2 and blaNDM-13 on an IncB/O/K/Z plasmid in China. *Microbiology spectrum*, 14(2), e0052825.

Winkler MA, et al. (2026) A One Health study of *Klebsiella pneumoniae* species complex plasmids shows a highly diverse and ecologically adaptable plasmidome. *Microbial genomics*, 12(2).