

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/rrwick/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: 20260905T133108+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 [PRECISE-TBI](#) .

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.

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).

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.

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).

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.

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).

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.

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.

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).

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).

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).

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.

Blumenscheit C, et al. (2026) Antibiotic Resistance Detection and Concomitant Species Identification of ESKAPE Pathogens by Proteomics. *Molecular & cellular proteomics : MCP*, 25(4), 101539.

Kawabata Y, et al. (2026) Antimicrobial susceptibility of *Escherichia coli* isolated from wild deer (*Cervus nippon yesoensis*) and fox (*Vulpes vulpes schrencki*) in Hokkaido: a pilot study on sustainable antimicrobial resistance monitoring. *The Journal of veterinary medical science*, 88(4), 642.