

Resource Summary Report

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Circlator

RRID:SCR_016058

Type: Tool

Proper Citation

Circlator (RRID:SCR_016058)

Resource Information

URL: <http://sanger-pathogens.github.io/circlator/>

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Description: Software that automates assembly circularization and produces accurate linear representations of circular sequences. It is used for assembling of DNA sequence data of complete bacterial and small eukaryotic genomes.

Resource Type: image analysis software, software resource, software application, data processing software, alignment software, software toolkit

Defining Citation: [PMID:26714481](#), [DOI:10.1186/s13059-015-0849-0](#)

Keywords: assembly, sequence, genome, DNA, circularization, accurate, bacteria, eukaryote, tool

Funding: Wellcome Trust grant 098051

Availability: Free, Available for download

Resource Name: Circlator

Resource ID: SCR_016058

Alternate IDs: OMICS_09488

Alternate URLs: <https://github.com/sanger-pathogens/circlator>,
<https://sources.debian.org/src/circlator/>

License: GPL 3.0

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260728T043513+0000

Ratings and Alerts

No rating or validation information has been found for Circlator.

No alerts have been found for Circlator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 321 mentions in open access literature.

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

Qi J, et al. (2026) Integrated genomic and metabolomic analysis reveals the biocontrol potential of endophytic *Bacillus velezensis* NS13 against *Fusarium* species in *Lonicera macranthoides*. *BMC microbiology*, 26(1), 5.

Tizabi D, et al. (2025) Nanopore Sequencing of *Amoebophrya* Species Reveals Novel Collection of Bacteria Putatively Associated With *Karodinium veneficum*. *Genome biology and evolution*, 17(3).

Maron B, et al. (2025) Uncovering the genetic basis of *Staphylococcus aureus* resistance to single antimicrobial peptides and their combinations. *iScience*, 28(6), 112671.

Peng F, et al. (2025) Biocontrol potential and comparative genomic analysis of two *Bacillus velezensis* strains against sclerotinosis in mulberry fruit. *Frontiers in microbiology*, 16, 1587301.

Coluzzi C, et al. (2025) Comparative genomics of *Salmonella enterica* serovars Paratyphi A, Typhi and Typhimurium reveals distinct profiles of their pangenome, mobile genetic elements, antimicrobial resistance and defense systems repertoire. *Virulence*, 16(1), 2504658.

Stritt C, et al. (2025) Gene conversion and duplication contribute to genetic variation in an outbreak of *Mycobacterium tuberculosis*. *Microbial genomics*, 11(5).

Lee Y, et al. (2025) Therapeutic potential of *Bacillus sonorensis* PMC204 membrane vesicles against drug-resistant *Mycobacterium tuberculosis*. *Medical microbiology and immunology*, 214(1), 43.

Jaakkola K, et al. (2025) Understanding *Serratia bockelmannii* transmission during a neonatal intensive care unit outbreak: a combined genotyping and case-control study. *Antimicrobial resistance and infection control*, 14(1), 128.

Lu Y, et al. (2025) Comparative genomics of *Nocardia tsunamensis* IFM 10818, a new source of the antibacterial macrolide nargenicin A1. *Microbiology spectrum*, 13(12), e0122025.

Arredondo-Alonso S, et al. (2025) Plasmid-driven strategies for clone success in *Escherichia coli*. *Nature communications*, 16(1), 2921.

Liu Z, et al. (2025) Functional genomic analysis of *Bacillus cereus* BC4 strain for chromium remediation in contaminated soil. *Current research in microbial sciences*, 8, 100388.

Krause AL, et al. (2025) Comparative and functional genomic analysis of foreign DNA defense mechanisms in *Enterococcus faecium*. *Microbiology spectrum*, 13(8), e0028925.

Duan G, et al. (2025) An Emerging Bacterial Leaf Disease in Rice Caused by *Pantoea ananatis* and *Pantoea eucalypti* in Northeast China. *Microorganisms*, 13(6).

Gasser MT, et al. (2025) Complete genome sequences of two shipworm endosymbiont strains, *Teredinibacter turnerae* SR01903 and SR02026. *Microbiology resource announcements*, 14(6), e0026525.

Manzanares-Pedrosa A, et al. (2025) Phenotypic and whole genome-based characterization of antibiotic resistance of *Campylobacter jejuni* isolates from chicken livers. *Poultry science*, 104(8), 105302.

Lee S, et al. (2025) Functional characterization of a novel plant growth-promoting rhizobacterium enhancing root growth and salt stress tolerance. *Scientific reports*, 15(1), 30405.

Liu Z, et al. (2025) C15-bacillomycin D produced by *Bacillus amyloliquefaciens* 4-9-2 suppress *Fusarium graminearum* infection and mycotoxin biosynthesis. *Frontiers in microbiology*, 16, 1599452.

Charles H, et al. (2025) Epidemiologic and Genomic Investigation of Sexually Transmitted *Shigella sonnei*, England. *Emerging infectious diseases*, 31(7), 1394.

Yuan Z, et al. (2025) The Enzyme Glucose-1-Phosphate Thymidyltransferase RmlA Plays a Crucial Role in the Pathogenesis of *Pectobacterium actinidiae* GX1. *Molecular plant pathology*, 26(7), e70118.

Xu L, et al. (2025) Mobilome-mediated transcriptional activation of biosynthetic gene clusters and its impact on strain competitiveness in food fermentation microbiomes. *Microbiome*, 13(1), 191.