

Resource Summary Report

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GenomeScope

RRID:SCR_017014

Type: Tool

Proper Citation

GenomeScope (RRID:SCR_017014)

Resource Information

URL: <https://github.com/schatzlab/genomescope>

Proper Citation: GenomeScope (RRID:SCR_017014)

Description: Open source software package for fast genome analysis from unassembled short reads. Used to estimate genome heterozygosity, repeat content, and size from sequencing reads using a kmer-based statistical approach.

Abbreviations: Genomescope

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

Defining Citation: [PMID:28369201](https://pubmed.ncbi.nlm.nih.gov/28369201/)

Keywords: genome, unassembled, sequenced, data, short, read, analysis, heterozygosity, repeat, content, size, kmer

Funding: NSF DBI 1350041;
NSF IOS 1237880;
NHGRI R01 HG006677

Availability: Free, Freely available,

Resource Name: GenomeScope

Resource ID: SCR_017014

Alternate URLs: <http://qb.cshl.edu/genomescope/>

License: Apache License 2.0

Record Creation Time: 20220129T080333+0000

Record Last Update: 20250501T081357+0000

Ratings and Alerts

No rating or validation information has been found for GenomeScope.

No alerts have been found for GenomeScope.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 445 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Liu J, et al. (2025) Chromosome-level genome assembly of the seasonally polyphenic scorpionfly (*Panorpa liui*). *Scientific data*, 12(1), 22.

Patankar HV, et al. (2025) A Chromosome level assembly of pomegranate (*Punica granatum* L.) variety grown in arid environment. *Scientific data*, 12(1), 73.

Yang Y, et al. (2025) A Chromosome-Scale Genome of *Trametes versicolor* and Transcriptome-Based Screening for Light-Induced Genes That Promote Triterpene Biosynthesis. *Journal of fungi (Basel, Switzerland)*, 11(1).

Choi S, et al. (2025) Chromosome-level genome assembly of *Salvia sclarea*. *Scientific data*, 12(1), 14.

Oriowo TO, et al. (2025) A chromosome-level, haplotype-resolved genome assembly and annotation for the Eurasian minnow (*Leuciscidae: Phoxinus phoxinus*) provide evidence of haplotype diversity. *GigaScience*, 14.

Guan DL, et al. (2025) A high-quality chromosome-level genome assembly of the mulberry looper, *Phthonandria atrilineata*. *Scientific data*, 12(1), 186.

Liu S, et al. (2025) Chromosome-level genome assembly and annotation of Japanese anchovy (*Engraulis japonicus*). *Scientific data*, 12(1), 134.

Lee S, et al. (2025) Chromosome-scale genome assembly of Korean goosegrass (*Eleusine*

indica). *Scientific data*, 12(1), 156.

Schöneberg Y, et al. (2025) Three Novel Spider Genomes Unveil Spidroin Diversification and Hox Cluster Architecture: *Ryuthela nishihirai* (Liphistiidae), *Uloborus plumipes* (Uloboridae) and *Cheiracanthium punctorium* (Cheiracanthiidae). *Molecular ecology resources*, 25(1), e14038.

Vea IM, et al. (2025) The B Chromosome of *Pseudococcus viburni*: A Selfish Chromosome that Exploits Whole-Genome Meiotic Drive. *Genome biology and evolution*, 17(1).

Miao C, et al. (2024) Haplotype-resolved chromosome-level genome assembly of Huyou (*Citrus changshanensis*). *Scientific data*, 11(1), 605.

Zhang T, et al. (2024) A chromosome-level genome reveals genome evolution and molecular basis of anthraquinone biosynthesis in *Rheum palmatum*. *BMC plant biology*, 24(1), 261.

Bai M, et al. (2024) The telomere-to-telomere (T2T) genome of *Peucedanum praeruptorum* Dunn provides insights into the genome evolution and coumarin biosynthesis. *GigaScience*, 13.

Wang H, et al. (2024) Highly active repeat-mediated recombination in the mitogenome of the aquatic grass *Hygroryza aristata*. *BMC plant biology*, 24(1), 644.

Cao LJ, et al. (2024) Nuclear and mitochondrial genomes of the plum fruit moth *Grapholita funebrana*. *Scientific data*, 11(1), 692.

Guo S, et al. (2024) Chromosome-level genome assembly of the invasive pest *Pseudococcus jackbeardsleyi* (Hemiptera: Pseudococcidae). *Scientific data*, 11(1), 899.

Chen X, et al. (2024) Telomere-to-Telomere Haplotype-Resolved Genomes of *Agrocybe chaxingu* Reveals Unique Genetic Features and Developmental Insights. *Journal of fungi* (Basel, Switzerland), 10(9).

Ryu BR, et al. (2024) Chromosome-level Haploid Assembly of *Cannabis sativa* L. cv. Pink Pepper. *Scientific data*, 11(1), 1442.

Yang W, et al. (2024) Near telomere-to-telomere assembly of the Tarim pigeon (*Columba livia*) genome. *Scientific data*, 11(1), 1455.

Khanbo S, et al. (2024) A chromosome-scale genome assembly of mungbean (*Vigna radiata*). *PeerJ*, 12, e18771.