

Resource Summary Report

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MAKER

RRID:SCR_005309

Type: Tool

Proper Citation

MAKER (RRID:SCR_005309)

Resource Information

URL: <http://www.yandell-lab.org/software/maker.html>

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Description: Software genome annotation pipeline. Portable and easily configurable genome annotation pipeline. Used to allow smaller eukaryotic and prokaryotic genome projects to independently annotate their genomes and to create genome databases. MAKER identifies repeats, aligns ESTs and proteins to genome, produces ab-initio gene predictions and automatically synthesizes these data into gene annotations having evidence based quality values.

Synonyms: Maker2, maker

Resource Type: software resource, software toolkit

Defining Citation: [PMID:25501943](#)

Keywords: gene prediction, genome annotation, identifies repeats, aligns ESTs and proteins to genome, data management, genome annotation, annotation, curation, bio.tools, FASEB list

Funding:

Availability: Free, Available for download, Freely available

Resource Name: MAKER

Resource ID: SCR_005309

Alternate IDs: SCR_023883, nlx_144363, biotools:maker

Alternate URLs: <https://bio.tools/maker>, <https://github.com/Yandell-Lab/maker>

License: GNU GPL

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250422T055233+0000

Ratings and Alerts

No rating or validation information has been found for MAKER.

No alerts have been found for MAKER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1233 mentions in open access literature.

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

Zou X, et al. (2025) Chromosome-level genome assembly of the pine wood nematode carrier *Arhopalus unicolor*. *Scientific data*, 12(1), 111.

Yang G, et al. (2025) Chromosome-level genome assembly of *Megachile sculpturalis* Smith (Hymenoptera, Apoidea, Megachilidae). *Scientific data*, 12(1), 46.

Yan Y, et al. (2025) Degenerated vision, altered lipid metabolism, and expanded chemoreceptor repertoires enable *Lindaspio polybranchiata* to thrive in deep-sea cold seeps. *BMC biology*, 23(1), 13.

Chen Y, et al. (2025) An improved chromosome-level genome assembly and annotation of Hong Kong catfish (*Clarias fuscus*). *Scientific data*, 12(1), 193.

Chen W, et al. (2025) Graph pangenome reveals the regulation of malate content in blood-fleshed peach by NAC transcription factors. *Genome biology*, 26(1), 7.

Li R, et al. (2025) Photosymbiosis shaped animal genome architecture and gene evolution as revealed in giant clams. *Communications biology*, 8(1), 7.

Liu R, et al. (2025) Chromosome-level reference genome and annotation of the Arctic fish

Anisarchus medius. Scientific data, 12(1), 68.

Chudhary A, et al. (2025) Characterization of chemosensory genes in the subterranean pest Gryllotalpa Orientalis based on genome assembly and transcriptome comparison. BMC genomics, 26(1), 33.

Alejo-Jacuinde G, et al. (2025) Gene family rearrangements and transcriptional priming drive the evolution of vegetative desiccation tolerance in Selaginella. The Plant journal : for cell and molecular biology, 121(1), e17169.

Yu X, et al. (2025) Super pan-genome reveals extensive genomic variations associated with phenotypic divergence in Actinidia. Molecular horticulture, 5(1), 4.

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

Liang Y, et al. (2025) The giant genome of lily provides insights into the hybridization of cultivated lilies. Nature communications, 16(1), 45.

Weissensteiner MH, et al. (2025) Combining Individual-Based Radio-Tracking With Whole-Genome Sequencing Data Reveals Candidate for Genetic Basis of Partial Migration in a Songbird. Ecology and evolution, 15(1), e70800.

Li L, et al. (2025) A Chromosomal-level genome assembly and annotation of fat greenling (Hexagrammos otakii). Scientific data, 12(1), 78.

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

Kelsang GA, et al. (2024) Insights from the first chromosome-level genome assembly of the alpine gentian Gentiana straminea Maxim. DNA research : an international journal for rapid publication of reports on genes and genomes, 31(5).

Kumar M, et al. (2024) Mixotrophic growth of a ubiquitous marine diatom. Science advances, 10(29), eado2623.

Li Z, et al. (2024) Intraspecific diploidization of a halophyte root fungus drives heterosis. Nature communications, 15(1), 5872.

Zhang W, et al. (2024) Chromosome-level genome assembly of the medicinal insect Blaps rhynchopetera using Nanopore and Hi-C technologies. DNA research : an international journal for rapid publication of reports on genes and genomes, 31(6).

Wang H, et al. (2024) A gap-free genome assembly of Fusarium oxysporum f. sp. conglutinans, a vascular wilt pathogen. Scientific data, 11(1), 925.