

Resource Summary Report

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DOGMA

RRID:SCR_015060

Type: Tool

Proper Citation

DOGMA (RRID:SCR_015060)

Resource Information

URL: <https://dogma.ccbb.utexas.edu/>

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Description: Web-based annotation tool for plant chloroplasts and animal mitochondrial genomes. DOGMA allows the use of BLAST searches against a custom database, and conservation of basepairing in the secondary structure of animal mitochondrial tRNAs to identify and annotate genes.

Synonyms: Dual Organellar GenoMe Annotator, Dual Organellar GenoMe Annotator (DOGMA)

Resource Type: software resource, web application

Defining Citation: [PMID:15180927](#)

Keywords: chloroplast, mitochondria, genome annotation, bio.tools, FASEB list

Availability: Freely available

Resource Name: DOGMA

Resource ID: SCR_015060

Alternate IDs: biotools:DOGMA

Alternate URLs: <https://bio.tools/DOGMA>

Record Creation Time: 20220129T080323+0000

Record Last Update: 20260905T132753+0000

Ratings and Alerts

No rating or validation information has been found for DOGMA.

No alerts have been found for DOGMA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 428 mentions in open access literature.

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

Gao Y, et al. (2026) Methodologies for Sample Multiplexing and Computational Deconvolution in Single-Cell Sequencing. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(3), e13396.

Coban A, et al. (2025) Tracing the paths of modular evolution by quantifying rearrangement events of protein domains. *BMC ecology and evolution*, 25(1), 6.

Wang Q, et al. (2025) The complete chloroplast genome sequences of three *Cypripedium* species and their phylogenetic analysis. *Scientific reports*, 15(1), 13461.

Zheng Z, et al. (2025) Comparative and phylogenetic study on the chloroplast genomes of CMS with the cytoplasm of *Aegilops ovata* and its maintainer line in wheat. *BMC genomics*, 26(1), 1155.

Yue L, et al. (2025) Characterization of the complete plastid genome of *Clivia mirabilis* (Amaryllidaceae). *Mitochondrial DNA. Part B, Resources*, 10(1), 42.

Zhang J, et al. (2024) Comparison of the chloroplast genomics of nine endangered *Habenaria* species and phylogenetic analysis. *BMC plant biology*, 24(1), 1046.

Qi Z, et al. (2024) Paternal Mitochondrial DNA Leakage in Natural Populations of Large-Scale Loach, *Paramisgurnus dabryanus*. *Biology*, 13(8).

Sebastin R, et al. (2024) Comparative chloroplast genome analyses of cultivated and wild *Capsicum* species shed light on evolution and phylogeny. *BMC plant biology*, 24(1), 797.

Xu J, et al. (2024) scmFormer Integrates Large-Scale Single-Cell Proteomics and Transcriptomics Data by Multi-Task Transformer. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 11(19), e2307835.

Hu Y, et al. (2024) Complete mitochondrial genome and phylogenetic analysis of *Dollfustrema vaneyi* (Trematoda: Bucephalidae). *BMC genomics*, 25(1), 862.

Song BN, et al. (2024) Phylogeny and diversification of genus *Sanicula* L. (Apiaceae): novel insights from plastid phylogenomic analyses. *BMC plant biology*, 24(1), 70.

Zhao M, et al. (2024) Complete Chloroplast Genome Sequence Structure and Phylogenetic Analysis of Kohlrabi (*Brassica oleracea* var. *gongylodes* L.). *Genes*, 15(5).

Chen Y, et al. (2024) Chloroplast genome data of five *Amygdalus* species: Clarifying genome structure and phylogenetic relationships. *Data in brief*, 53, 110077.

Lubna , et al. (2024) The complete plastome sequences of invasive weed *Parthenium hysterophorus*: genome organization, evolutionary significance, structural features, and comparative analysis. *Scientific reports*, 14(1), 4006.

Li Z, et al. (2024) Whole Mitochondrial Genome Sequencing and Phylogenetic Tree Construction for *Procypris mera* (Lin 1933). *Animals : an open access journal from MDPI*, 14(18).

Yu X, et al. (2024) Characterization of the Complete Mitochondrial Genome of Wintersweet (*Chimonanthus praecox*) and Comparative Analysis within Magnoliids. *Life (Basel, Switzerland)*, 14(2).

Wu Y, et al. (2024) The Complete Chloroplast Genomes of *Bulbophyllum* (Orchidaceae) Species: Insight into Genome Structure Divergence and Phylogenetic Analysis. *International journal of molecular sciences*, 25(5).

Duan Y, et al. (2024) Comparative and phylogenetic analysis of the chloroplast genomes of four commonly used medicinal cultivars of *Chrysanthemums morifolium*. *BMC plant biology*, 24(1), 992.

Yang L, et al. (2024) Plastome characterization and its phylogenetic implications on *Lithocarpus* (Fagaceae). *BMC plant biology*, 24(1), 1277.

Ahmad W, et al. (2023) Comparative plastome genomics, taxonomic delimitation and evolutionary divergences of *Tetraena hamiensis* var. *qatarensis* and *Tetraena simplex* (Zygophyllaceae). *Scientific reports*, 13(1), 7436.