

Resource Summary Report

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NOVOPlasty

RRID:SCR_017335

Type: Tool

Proper Citation

NOVOPlasty (RRID:SCR_017335)

Resource Information

URL: <https://github.com/ndierckx/NOVOPlasty>

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Description: Software package as de novo assembler and heteroplasmy variance caller for short circular genomes. Used for de novo assembly of organelle genomes from whole genome data.

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

Defining Citation: [PMID:28204566](#)

Keywords: de novo, assembler, heteroplasmy, variance, caller, short, circular, genome, organelle, whole, data

Funding: Interuniversity Institute of Bioinformatics in Brussels ;
Belgian Kids Fund ;
Hôpital Universitaire des Enfants Reine Fabiola

Availability: Free, Available for download, Freely available

Resource Name: NOVOPlasty

Resource ID: SCR_017335

License URLs: <https://github.com/ndierckx/NOVOPlasty/blob/master/LICENSE>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20250430T060116+0000

Ratings and Alerts

No rating or validation information has been found for NOVOPlasty.

No alerts have been found for NOVOPlasty.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 132 mentions in open access literature.

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

Patil MP, et al. (2025) Complete Mitochondrial Genome of Niphon spinosus (Perciformes: Niphonidae): Genome Characterization and Phylogenetic Analysis. *Biomolecules*, 15(1).

van der Nest MA, et al. (2024) Complete mitochondrial genome sequence of the white root rot pathogen Dematophora necatrix (Xylariaceae: Xylariales). *Mitochondrial DNA. Part B, Resources*, 9(9), 1207.

He M, et al. (2024) Characterization of the complete mitochondrial genome of the medical fungus Ganoderma resinaceum Boud., 1889 (Polyporales: Ganodermataceae). *Mitochondrial DNA. Part B, Resources*, 9(10), 1291.

Ma Y, et al. (2024) Characterization of the complete mitochondrial genome of Desmaulus extlectorium (Littorinimorpha, Calyptroeoidea, Calyptroidae) and molecular phylogeny of Littorinimorpha. *PloS one*, 19(3), e0301389.

Jin J, et al. (2024) Which contributes more to the relict flora distribution pattern in East Asia, geographical processes or climate change? New evidence from the phylogeography of *Rehderodendron kwangtungense*. *BMC plant biology*, 24(1), 459.

Wang R, et al. (2024) The complete Chloroplast genome of *Stachys geobombycis* and comparative analysis with related *Stachys* species. *Scientific reports*, 14(1), 8523.

Ali R, et al. (2024) The first complete mitochondrial genome of *Anopheles gibbinsi* using a skimming sequencing approach. *F1000Research*, 13, 553.

Gao JF, et al. (2024) Characterization of the Complete Mitochondrial Genome of *Pleurogenoides japonicus* (Diptera, Pleurogenidae): Comparison With the Members of Microphalloidea and Phylogenetic Implications. *Ecology and evolution*, 14(10), e70430.

Venkatesan A, et al. (2024) Chloroplast genome of *Ocimum basilicum* var. *purpurascens* Bentham 1830 (Lamiaceae). *Mitochondrial DNA. Part B, Resources*, 9(2), 252.

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.

Xiang YN, et al. (2024) Deciphering the Plastomic Code of Chinese Hog-Peanut (*Amphicarpa edgeworthii* Benth., Leguminosae): Comparative Genomics and Evolutionary Insights within the Phaseoleae Tribe. *Genes*, 15(1).

Hu YJ, et al. (2024) Comparative mitogenome research revealed the phylogenetics and evolution of the superfamily Tenebrionoidea (Coleoptera: Polyphaga). *Ecology and evolution*, 14(6), e11520.

Li J, et al. (2024) Characterization and trans-generation dynamics of mitogene pool in the silver carp (*Hypophthalmichthys molitrix*). *G3 (Bethesda, Md.)*, 14(9).

Wang S, et al. (2024) Contributions to the Knowledge of Nemognathinae (Coleoptera: Meloidae) from China. *Insects*, 15(5).

Roy S, et al. (2024) Whole mitochondrial genome sequencing and phylogenetic analysis of Gangetic mystus (*Mystus cavasius*). *Mitochondrial DNA. Part B, Resources*, 9(11), 1539.

Yocca A, et al. (2024) A chromosome-scale assembly for 'd'Anjou' pear. *G3 (Bethesda, Md.)*, 14(3).

Benito JB, et al. (2024) Comparative mitogenomic analysis of subterranean and surface amphipods (Crustacea, Amphipoda) with special reference to the family Crangonyctidae. *BMC genomics*, 25(1), 298.

Song BN, et al. (2024) Plastid phylogenomics contributes to the taxonomic revision of taxa within the genus *Sanicula* L. and acceptance of two new members of the genus. *Frontiers in plant science*, 15, 1351023.

Zhang L, et al. (2024) First complete mitochondrial genome of *Pselliophora* (Diptera, Tipulidae): genome description and phylogenetic implications. *Mitochondrial DNA. Part B, Resources*, 9(7), 897.

Nguyen HD, et al. (2024) Comparative genomics revealed new insights into the plastome evolution of *Ludwigia* (Onagraceae, Myrtales). *Science progress*, 107(3), 368504241272741.