

Resource Summary Report

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DnaSP

RRID:SCR_003067

Type: Tool

Proper Citation

DnaSP (RRID:SCR_003067)

Resource Information

URL: <http://www.ub.edu/dnasp/>

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Description: A software package for the analysis of nucleotide polymorphism from aligned DNA sequence data. DnaSP can estimate several measures of DNA sequence variation within and between populations (in noncoding, synonymous or nonsynonymous sites, or in various sorts of codon positions), as well as linkage disequilibrium, recombination, gene flow and gene conversion parameters. DnaSP can also carry out several tests of neutrality: Hudson, Kreitman and Aguad (1987), Tajima (1989), McDonald and Kreitman (1991), Fu and Li (1993), and Fu (1997) tests. Additionally, DnaSP can estimate the confidence intervals of some test-statistics by the coalescent. The results of the analyses are displayed on tabular and graphic form.

Abbreviations: DnaSP

Synonyms: DNA Sequence Polymorphism

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

Defining Citation: [PMID:19346325](#), [PMID:19378153](#), [PMID:14668244](#), [PMID:10089204](#), [PMID:9183537](#), [PMID:8808578](#)

Keywords: genetics, dna, population genetics, sequence, polymorphism, nucleotide polymorphism, dna sequence, population, noncoding, synonymous, nonsynonymous

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Spanish Direccion General de Investigacion Cientifica y Technica TXT98-1802;
Spanish Direccion General de Investigacion Cientifica y Technica BMC2001-2906;
Spanish Direccion General de Investigacion Cientifica y Technica BFU2004-02253;
Spanish Direccion General de Investigacion Cientifica y Technica BFU2007-6292

Availability: Free for academic use

Resource Name: DnaSP

Resource ID: SCR_003067

Alternate IDs: OMICS_01820, nif-0000-30461

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250426T055608+0000

Ratings and Alerts

No rating or validation information has been found for DnaSP.

No alerts have been found for DnaSP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5569 mentions in open access literature.

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

Ma H, et al. (2025) Complete Chloroplast Genomes of 9 Impatiens Species: Genome Structure, Comparative Analysis, and Phylogenetic Relationships. International journal of molecular sciences, 26(2).

Niu M, et al. (2025) Microsatellite and Mitochondrial COI Provide Novel Insights Into the Population Genetic Structure of White Prunicola Scale (Pseudaulacaspis prunicola) in China. Ecology and evolution, 15(1), e70865.

Djoko Tagne CS, et al. (2025) A single mutation G454A in the P450 CYP9K1 drives pyrethroid resistance in the major malaria vector Anopheles funestus reducing bed net efficacy. Genetics, 229(1), 1.

- Das PJ, et al. (2025) Complete mitochondrial genome sequence analysis revealed double matrilineal components in Indian Ghongroo pigs. *Scientific reports*, 15(1), 2219.
- Marr MM, et al. (2025) Genomic Insights Into Red Squirrels in Scotland Reveal Loss of Heterozygosity Associated With Extreme Founder Effects. *Evolutionary applications*, 18(1), e70072.
- Zhang R, et al. (2025) Comparative organelle genomics in Daphniophyllaceae reveal phylogenetic position and organelle structure evolution. *BMC genomics*, 26(1), 40.
- Wang T, et al. (2025) Molecular phylogeny and comparative chloroplast genome analysis of the type species *Crucigenia quadrata*. *BMC plant biology*, 25(1), 64.
- Hayakawa T, et al. (2025) Genome-scale evolution in local populations of wild chimpanzees. *Scientific reports*, 15(1), 548.
- Hoda A, et al. (2025) Exploring Mitochondrial Evolutionary Pathways: Insights into the Origin of the Endemic Ohrid Trout. *Life (Basel, Switzerland)*, 15(1).
- Mutum RS, et al. (2025) The origins of "Kaunayen" game fowls of Manipur, India: Insights from mitochondrial D-loop sequence analysis. *Poultry science*, 104(1), 104667.
- Skórzewski G, et al. (2025) Contact zone of slow worms *Anguis fragilis* Linnaeus, 1758 and *Anguis colchica* (Nordmann, 1840) in Poland. *PeerJ*, 13, e18563.
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- Petrohilos C, et al. (2025) AMPed up immunity: 418 whole genomes reveal intraspecific diversity of koala antimicrobial peptides. *Immunogenetics*, 77(1), 11.
- Sha LN, et al. (2025) Rapid diversification of St-genome-sharing species in wheat grasses (Triticeae: Poaceae) accompanied by diversifying selection of chloroplast genes. *BMC plant biology*, 25(1), 32.
- Joh HJ, et al. (2025) A recent large-scale intraspecific IR expansion and evolutionary dynamics of the plastome of *Peucedanum japonicum*. *Scientific reports*, 15(1), 104.
- Yu W, et al. (2025) The complete chloroplast genome sequences of monotypic genus *Pseudogalium*, and comparative analyses with its relative genera. *BMC genomics*, 26(1), 93.
- Caigoy JC, et al. (2025) Genetic Characterization of a Novel Retron Element Isolated from *Vibrio mimicus*. *Microbiology and immunology*, 69(1), 1.
- Najera P, et al. (2025) Testis- and ovary-expressed polo-like kinase transcripts and gene duplications affect male fertility when expressed in the *Drosophila melanogaster* germline. *G3 (Bethesda, Md.)*, 15(1).

Zang G, et al. (2025) Identifications of Common Species and Descriptions of Two New Species of Siphonaria (Mollusca: Gastropoda) in China. *Biology*, 14(1).

Öztürk M, et al. (2025) Molecular and Morphological Characterization of Two Clinostomum (Digenea: Clinostomidae) Species with the First Case of *Clinostomum tilapiae* from Turkey. *Acta parasitologica*, 70(1), 18.