

# Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

## PhyloBayes

RRID:SCR\_006402

Type: Tool

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### Proper Citation

PhyloBayes (RRID:SCR\_006402)

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### Resource Information

**URL:** <http://megasun.bch.umontreal.ca/People/lartillot/www/>

**Proper Citation:** PhyloBayes (RRID:SCR\_006402)

**Description:** A Bayesian Monte Carlo Markov Chain (MCMC) sampler software for phylogenetic reconstruction. Its main distinguishing feature is the underlying probabilistic model, CAT (Lartillot and Philippe, 2004). CAT is an infinite mixture model accounting for site-specific amino-acid or nucleotide preferences. It is well suited to phylogenomic studies using large multigene alignments., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

**Abbreviations:** PhyloBayes

**Synonyms:** PhyloBayes - phylogenetic reconstruction using infinite mixtures

**Resource Type:** software resource

**Defining Citation:** [PMID:24318999](#)

**Keywords:** phylogenomic, multigene alignment, alignment, reconstruction

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** PhyloBayes

**Resource ID:** SCR\_006402

**Alternate IDs:** OMICS\_02212

**Record Creation Time:** 20220129T080236+0000

**Record Last Update:** 20260808T185844+0000

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### Ratings and Alerts

No rating or validation information has been found for PhyloBayes.

No alerts have been found for PhyloBayes.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 486 mentions in open access literature.

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

Campbell AS, et al. (2026) Molecular insights into electroreceptor ribbon synapses from differential gene expression in sturgeon lateral line organs. *Journal of anatomy*, 248(5), 784.

Pietluch F, et al. (2025) Dating the Origin and Spread of Plastids and Chromatophores. *International journal of molecular sciences*, 26(12).

Lavrov DV, et al. (2025) Pervasive Mitochondrial tRNA Gene Loss in Clade B of Haplosclerid Sponges (Porifera, Demospongiae). *Genome biology and evolution*, 17(3).

Jeong JS, et al. (2025) Complete mitochondrial genome of the world's most endangered tern, *Thalasseus bernsteini*, and a mitogenomic phylogenetic study of the Laridae family. *Scientific reports*, 15(1), 29326.

Zhao T, et al. (2025) Evolutionary history and divergence times of Tettigoniidae (Orthoptera) inferred from mitochondrial phylogenomics. *Frontiers in genetics*, 16, 1495754.

Liu Q, et al. (2025) Comparative Mitogenomes and Phylogenetic Analyses of Coccinellidae (Coleoptera: Coccinelloidea). *Ecology and evolution*, 15(3), e71053.

Martin ?íhová J, et al. (2025) An obligate symbiont of *Haematomyzus elephantis* with a strongly reduced genome resembles symbiotic bacteria in sucking lice. *Applied and environmental microbiology*, 91(6), e0022025.

Giacomelli M, et al. (2025) CAT-Posterior Mean Site Frequencies Improves Phylogenetic Modeling Under Maximum Likelihood and Resolves Tardigrada as the Sister of Arthropoda Plus Onychophora. *Genome biology and evolution*, 17(1).

Abalde S, et al. (2025) A Phylogenomic Backbone for Acoelomorpha Inferred From Transcriptomic Data. *Systematic biology*, 74(1), 70.

Zhu P, et al. (2025) Comparative and Phylogenetic Analyses of Mitochondrial Genomes in Carabidae (Coleoptera: Adephaga). *Ecology and evolution*, 15(7), e71707.

- Goremykin V, et al. (2025) ?High-level phylogenetic relationships within Pezizomycotina revisited. *IMA fungus*, 16, e153279.
- Santana-Molina C, et al. (2025) Chimeric origins and dynamic evolution of central carbon metabolism in eukaryotes. *Nature ecology & evolution*, 9(4), 613.
- Shazib SUA, et al. (2025) Phylogeny and species delimitation of ciliates in the genus *Spirostomum* (class Heterotrichea) using single-cell transcriptomes. *BMC ecology and evolution*, 25(1), 17.
- Yabuki A, et al. (2025) Massive RNA Editing in Ascetosporean Mitochondria. *Microbes and environments*, 40(1).
- Dai J, et al. (2024) The First Two Complete Mitochondrial Genomes for the Subfamily Meligethinae (Coleoptera: Nitidulidae) and Implications for the Higher Phylogeny of Nitidulidae. *Insects*, 15(1).
- Klirs Y, et al. (2024) Evolutionary Insights from the Mitochondrial Genome of *Oikopleura dioica*: Sequencing Challenges, RNA Editing, Gene Transfers to the Nucleus, and tRNA Loss. *Genome biology and evolution*, 16(9).
- Boden JS, et al. (2024) Timing the evolution of phosphorus-cycling enzymes through geological time using phylogenomics. *Nature communications*, 15(1), 3703.
- Petitgas C, et al. (2024) Metabolic and neurobehavioral disturbances induced by purine recycling deficiency in *Drosophila*. *eLife*, 12.
- Kaur T, et al. (2024) Discovery of a novel *Wolbachia* in *Heterodera* expands nematode host distribution. *Frontiers in microbiology*, 15, 1446506.
- Demura M, et al. (2024) New species and species diversity of *Desmodesmus* (Chlorophyceae, Chlorophyta) in Saga City, Japan. *Scientific reports*, 14(1), 18980.