# **Resource Summary Report**

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# PAML

RRID:SCR\_014932 Type: Tool

#### **Proper Citation**

PAML (RRID:SCR\_014932)

#### **Resource Information**

URL: http://abacus.gene.ucl.ac.uk/software/paml.html

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**Description:** Package of programs for phylogenetic analyses of DNA or protein sequences using maximum likelihood. PAML estimates parameters and tests hypotheses to study the evolutionary process from a phylogenetic tree.

Abbreviations: PAML

**Synonyms:** Phylogenetic Analysis by Maximum Likelihood, Phylogenetic Analysis by Maximum Likelihood (PAML)

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

Defining Citation: PMID:9367129, DOI:10.1093/molbev/msm088

**Keywords:** phylogenetic analysis, dna, protein sequences, evolutionary process, estimate parameters, test hypothesis, maximum likelihood, bio.tools

Funding:

Availability: Distributed under license

Resource Name: PAML

Resource ID: SCR\_014932

Alternate IDs: OMICS\_04238, biotools:paml

Alternate URLs: https://bio.tools/paml, https://sources.debian.org/src/paml/

License: GNU GPL v3

**Record Creation Time:** 20220129T080323+0000

Record Last Update: 20250519T203843+0000

# **Ratings and Alerts**

No rating or validation information has been found for PAML.

No alerts have been found for PAML.

## Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 4681 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Liu Z, et al. (2025) SoIR: a comprehensive Solanaceae information resource for comparative and functional genomic study. Nucleic acids research, 53(D1), D1623.

Qiu S, et al. (2025) Functional evolution and diversification of CYP82D subfamily members have shaped flavonoid diversification in the genus Scutellaria. Plant communications, 6(1), 101134.

Liu Z, et al. (2025) Genome architecture of the allotetraploid wild grass Aegilops ventricosa reveals its evolutionary history and contributions to wheat improvement. Plant communications, 6(1), 101131.

Zhou Q, et al. (2025) Phylogenetic analysis and detection of positive selection in the SIRT gene family across vertebrates. Scientific reports, 15(1), 848.

Zhang R, et al. (2025) Molecular Phylogenetic Relationships Based on Mitogenomes of Spider: Insights Into Evolution and Adaptation to Extreme Environments. Ecology and evolution, 15(1), e70774.

Zeng J, et al. (2025) Dampened TLR2-mediated Inflammatory Signaling in Bats. Molecular biology and evolution, 42(1).

Liu JN, et al. (2025) Pan-genome analyses of 11 Fraxinus species provide insights into salt adaptation in ash trees. Plant communications, 6(1), 101137.

Xie YJ, et al. (2025) Phylotranscriptomics resolved phylogenetic relationships and divergence time between 20 golden camellia species. Scientific reports, 15(1), 699.

Farrell AA, et al. (2025) Bacterial Growth Temperature as a Horizontally Acquired Polygenic Trait. Genome biology and evolution, 17(1).

Zhou Y, et al. (2025) Chromosome-level echidna genome illuminates evolution of multiple sex chromosome system in monotremes. GigaScience, 14.

Sbissi I, et al. (2025) Ecogenomic insights into the resilience of keystone Blastococcus Species in extreme environments: a comprehensive analysis. BMC genomics, 26(1), 51.

Liu X, et al. (2025) Mitochondrial Genome Characteristics Reveal Evolution of Danxiaorchis yangii and Phylogenetic Relationships. International journal of molecular sciences, 26(2).

Frankenberg SR, et al. (2025) Unearthing the secrets of Australia's most enigmatic and cryptic mammal, the marsupial mole. Science advances, 11(1), eado4140.

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.

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.

Ramanauskas K, et al. (2025) Rapid detection of RNase-based self-incompatibility in Lysimachia monelli (Primulaceae). American journal of botany, 112(1), e16449.

Manullang C, et al. (2025) Slight thermal stress exerts genetic diversity selection at coral (Acropora digitifera) larval stages. BMC genomics, 26(1), 36.

Zhou Y, et al. (2025) Telomere-to-telomere genome and resequencing of 254 individuals reveal evolution, genomic footprints in Asian icefish, Protosalanx chinensis. GigaScience, 14.

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.

Sanchez VA, et al. (2025) Genome evolution following an ecological shift in nectar-dwelling Acinetobacter. mSphere, 10(1), e0101024.