

Resource Summary Report

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Computational Analysis of gene Family Evolution

RRID:SCR_018924

Type: Tool

Proper Citation

Computational Analysis of gene Family Evolution (RRID:SCR_018924)

Resource Information

URL: <https://github.com/hahnlab/CAFEExp>

Proper Citation: Computational Analysis of gene Family Evolution (RRID:SCR_018924)

Description: Software tool for computational analysis of gene family evolution. Used for statistical analysis of evolution gene family sizes. Models evolution of gene family sizes over phylogeny.

Abbreviations: CAFE

Synonyms: CAFE v2.0, CAFE v4.0, CAFE v3.0, CAFE v5.0, Computational Analysis of gene Family Evolution

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

Defining Citation: [PMID:16543274](#)

Keywords: Computational analysis, gene family evolution, evolution statistical analysis, gene family size, gene evolution, phylogeny

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Inc

Resource Name: Computational Analysis of gene Family Evolution

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Ratings and Alerts

No rating or validation information has been found for Computational Analysis of gene Family Evolution.

No alerts have been found for Computational Analysis of gene Family Evolution.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Lau NS, et al. (2025) Comparative genomics and multiomics analyses reveal the evolution and physiological basis of rubber biosynthesis in Hevea species. GigaScience, 14.

Wang ZF, et al. (2025) Chromosome-scale assemblies of three Ormosia species: repetitive sequences distribution and structural rearrangement. GigaScience, 14.

Naktang C, et al. (2025) Chromosome-level assemblies of two hexaploid bamboos, Thyrsochloa oliveri and Thyrsochloa siamensis, provide a foundation for functional and comparative genomics studies. GigaScience, 14.

Xue HC, et al. (2025) A unified cell atlas of vascular plants reveals cell-type foundational genes and accelerates gene discovery. Cell.

Weng YM, et al. (2024) Evolutionary genomics of three agricultural pest moths reveals rapid evolution of host adaptation and immune-related genes. GigaScience, 13.

Wang Z, et al. (2022) A chromosome-level reference genome of Ensete glaucum gives insight into diversity and chromosomal and repetitive sequence evolution in the Musaceae. GigaScience, 11.

Wang ZF, et al. (2022) Genome assembly of Musa beccarii shows extensive chromosomal rearrangements and genome expansion during evolution of Musaceae genomes. GigaScience, 12.

Hu Y, et al. (2022) A high-resolution genome of an euryhaline and eurythermal rhinogoby (Rhinogobius similis Gill 1895). G3 (Bethesda, Md.), 12(2).

Zheng J, et al. (2022) Molecular mechanisms underlying hematophagia revealed by comparative analyses of leech genomes. GigaScience, 12.

Kim J, et al. (2022) Comparative Genome and Evolution Analyses of an Endangered Stony Coral Species Dendrophyllia cribrata Near Dokdo Islands in the East Sea. Genome biology and evolution, 14(9).

Yuan R, et al. (2022) The chromosome-level genome of Chinese praying mantis *Tenodera sinensis* (Mantodea: Mantidae) reveals its biology as a predator. *GigaScience*, 12.

Xi H, et al. (2022) Chromosome-level assembly of the common vetch (*Vicia sativa*) reference genome. *GigaByte* (Hong Kong, China), 2022, gigabyte38.

Pardos-Blas JR, et al. (2021) The genome of the venomous snail *Lautoconus ventricosus* sheds light on the origin of conotoxin diversity. *GigaScience*, 10(5).

Huang R, et al. (2021) De novo screening of disease-resistant genes from the chromosome-level genome of rare minnow using CRISPR-cas9 random mutation. *GigaScience*, 10(11).

Li Y, et al. (2020) Pacific Biosciences assembly with Hi-C mapping generates an improved, chromosome-level goose genome. *GigaScience*, 9(10).

Brandies PA, et al. (2020) The first *Antechinus* reference genome provides a resource for investigating the genetic basis of semelparity and age-related neuropathologies. *GigaByte* (Hong Kong, China), 2020, gigabyte7.