

Resource Summary Report

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Mesquite

RRID:SCR_017994

Type: Tool

Proper Citation

Mesquite (RRID:SCR_017994)

Resource Information

URL: <https://www.mesquiteproject.org/>

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Description: Software tool as modular system for evolutionary analysis. Software for evolutionary biology, designed to organize and analyze comparative data about organisms. Its emphasis is on phylogenetic analysis, but some of its modules concern population genetics, while others do non-phylogenetic multivariate analysis. Analyses available depend on modules installed. Comes with many packages already installed.

Synonyms: Mesquite 3.04, Mesquite 3.61

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

Keywords: Modular, evolutionary, analysis, organize, comparative data, organism, phylogenetic, population genetic, non-pylogenetic

Funding: NSF DEB 1258220;
David and Lucile Packard Foundation ;
NSERC Discovery grant ;
NSF

Availability: Free, Available for download, Freely available

Resource Name: Mesquite

Resource ID: SCR_017994

Alternate URLs: <https://sources.debian.org/src/mesquite/>

Record Creation Time: 20220129T080338+0000

Record Last Update: 20260731T043017+0000

Ratings and Alerts

No rating or validation information has been found for Mesquite.

No alerts have been found for Mesquite.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 151 mentions in open access literature.

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

Dos Santos Paixão V, et al. (2025) Chromosomal rearrangements drive diversity in arboreal rodents of the genus *Oecomys*. *Scientific reports*, 15(1), 6111.

Farrer EC, et al. (2025) Environmental and host plant effects on taxonomic and phylogenetic diversity of root fungal endophytes. *FEMS microbiology letters*, 372.

Sandhu P, et al. (2025) Enhanced analysis of the genomic diversity of *Mycobacterium bovis* in Great Britain to aid control of bovine tuberculosis. *Frontiers in microbiology*, 16, 1515906.

von Baczko MB, et al. (2025) Biomechanical modeling of musculoskeletal function related to the terrestrial locomotion of *Riojasuchus tenuisiceps* (Archosauria: Ornithosuchidae). *Anatomical record* (Hoboken, N.J. : 2007), 308(2), 369.

Besharati-Fard M, et al. (2025) First report and diversity analysis of endophytic fungi associated with *Ulva* sp. from Iran. *Scientific reports*, 15(1), 38264.

Ye F, et al. (2025) Evolutionary insights from the mitochondrial genomes of invasive scale insects (Hemiptera: Coccothraupidae): large-scale transfer RNA gene truncations and tandem repeat-driven intraspecific gene rearrangements. *BMC genomics*, 26(1), 1003.

Pommery Y, et al. (2025) Prenatal growth patterns of the upper jaw complex with implications for laryngeal echolocation in bats. *Journal of anatomy*, 246(3), 345.

Tseng YH, et al. (2025) Comparative plastome analyses and phylogenetic insights of *Elatostema*. *BMC plant biology*, 25(1), 537.

Li P, et al. (2025) Salinity Stress Induces Phase Separation of Plant BARENTSZ to Form Condensates. *Rice* (New York, N.Y.), 18(1), 75.

Chen X, et al. (2025) ?Systematics and floral micromorphology of core Aster and its related groups (Asteraceae, Astereae): Taxonomic significance and phylogenetic insights. *PhytoKeys*, 257, 135.

Bouwman T, et al. (2025) Biochemical and molecular characterization of fungal isolates from California annual grassland soil. *Biotechnology for biofuels and bioproducts*, 18(1), 56.

Mendoza-Churape J, et al. (2025) First Report of *Trametes hirsuta*, Causal Agent White Rot in Avocado Trees Grown in the State of Michoacán, México. *Pathogens* (Basel, Switzerland), 14(6).

Rahmouni C, et al. (2025) Beyond morphology: cryptic diversity in 9 new *Gyrodactylus* species (Monogenea: Gyrodactylidae) associated with northwest African barbels (Cyprinidae) and remarks on *Gyrodactylus nyingiae* Shigoley, Rahmouni, Louizi, Pariselle and Vanhove, 2023. *Parasitology*, 152(4), 419.

García-Jacobo I, et al. (2025) Phylogenetic and Morphological Analyses Reveal Twelve New Species of the Genus *Patellaria* (Dothideomycetes, Ascomycota) from Mexico. *Journal of fungi* (Basel, Switzerland), 11(1).

Otero A, et al. (2025) Hindlimb biomechanics of *Lagosuchus talampayensis* (Archosauria, Dinosauriformes), with comments on skeletal morphology. *Journal of anatomy*, 246(6), 948.

Clark AD, et al. (2025) Biomechanics of raptorial dorsiflexion and tensile material properties of the m. tibialis cranialis tendon in the hindlimbs of hawks and owls. *The Journal of experimental biology*, 228(23).

Huang J, et al. (2025) Diverse lifestyles and adaptive evolution of uncultured UBA5794 actinobacteria, a sister order of "Candidatus actinomarinales". *Environmental microbiome*, 20(1), 39.

Tolman ER, et al. (2025) The blueprint for survival: the blue dasher dragonfly as a model for urban adaptation. *BMC ecology and evolution*, 25(1), 67.

Chan J, et al. (2025) An Alternative Self-Splicing Intron Lifecycle Revealed by Dynamic Intron Turnover in *Epichloë* Endophyte Mitochondrial Genomes. *Molecular biology and evolution*, 42(4).

Pardo-De la Hoz CJ, et al. (2025) Rapid Radiations Outweigh Reticulations During the Evolution of a 750-Million-Year-Old Lineage of Cyanobacteria. *Molecular biology and evolution*, 42(10).