

Resource Summary Report

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BayeScan

RRID:SCR_022018

Type: Tool

Proper Citation

BayeScan (RRID:SCR_022018)

Resource Information

URL: <http://cmpg.unibe.ch/software/BayeScan/index.html>

Proper Citation: BayeScan (RRID:SCR_022018)

Description: Software tool to identify candidate loci under natural selection from genetic data, using differences in allele frequencies between populations.

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

Defining Citation: [DOI:10.1534/genetics.108.092221](https://doi.org/10.1534/genetics.108.092221), [DOI:10.1111/j.1365-294X.2010.04820.x](https://doi.org/10.1111/j.1365-294X.2010.04820.x), [DOI:10.1111/j.1365-294X.2011.05015.x](https://doi.org/10.1111/j.1365-294X.2011.05015.x)

Keywords: identify candidate loci under natural selection, genetic data, differences in allele frequencies between populations

Funding: University of Bern Research Foundation ;
Swiss National Science Foundation

Availability: Free, Available for Download, Freely available

Resource Name: BayeScan

Resource ID: SCR_022018

Record Creation Time: 20220421T050138+0000

Record Last Update: 20260803T040821+0000

Ratings and Alerts

No rating or validation information has been found for BayeScan.

No alerts have been found for BayeScan.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 84 mentions in open access literature.

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

Torrado H, et al. (2025) Evolutionary Genomics of Two Co-occurring Congeneric Fore Reef Coral Species on Guam (Mariana Islands). *Genome biology and evolution*, 17(1).

Bonnier J, et al. (2025) Wet Season Environments Drive Local Adaptation in the Timber Tree *Dicorynia guianensis* in French Guiana. *Molecular ecology*, 34(23), e17759.

Lin N, et al. (2025) Genomic Insights Into Local Adaptation Across Heterogeneous Understory Habitats and Climate Change Vulnerability. *Molecular ecology*, 34(19), e70068.

Chang Y, et al. (2025) Conservation genomics of a threatened subtropical *Rhododendron* species highlights the distinct conservation actions required in marginal and admixed populations. *The Plant journal : for cell and molecular biology*, 122(2), e70175.

Condori B, et al. (2025) The Relative Roles of Selection and Drift in the Chaffinch Radiation (Aves: *Fringilla*) Across the Atlantic Archipelagos of Macaronesia. *Ecology and evolution*, 15(4), e71307.

Gardiner CEC, et al. (2025) Sex-Linked Differentiation in Commercially Exploited Fishes: Rethinking Population Structure in Dynamic Marine Environments. *Global change biology*, 31(10), e70556.

Szczepański S, et al. (2025) Molecular signatures of adaptive introgression and selection in contact zones of closely related pine species (*Pinus* genus). *BMC plant biology*, 25(1), 1423.

Hawley KL, et al. (2025) Dispersal and Gene Flow Among Potential Spawners: Source-Sink Structure Among Populations of Anadromous Brown Trout Exposed to Multifaceted Anthropogenic Impacts. *Evolutionary applications*, 18(7), e70130.

Nazarizadeh M, et al. (2025) Host-Associated Genetic Differentiation in the Face of Ongoing Gene Flow: Ecological Speciation in a Pathogenic Parasite of Freshwater Fish. *Molecular biology and evolution*, 42(7).

Salardi-Jost M, et al. (2025) Genomic characterization of a global *Corylus avellana* L. collection: insights into hazelnut ancestry and genetic determinants of production traits. *BMC plant biology*, 25(1), 1738.

Kim KM, et al. (2025) Genomic Divergence of Sympatric Lineages Within *Stichopus* cf. *horrens* (Echinodermata: Stichopodidae): Insights on Reproductive Isolation Inferred From SNP Markers. *Ecology and evolution*, 15(4), e71283.

Rengefors K, et al. (2024) Population genomic analyses reveal that salinity and geographic isolation drive diversification in a free-living protist. *Scientific reports*, 14(1), 4986.

Bruno S, et al. (2024) Validation of selection signatures for coat color in the Podolica Italiana gray cattle breed. *Frontiers in genetics*, 15, 1453295.

Worthington BM, et al. (2024) Serological evidence of sarbecovirus exposure along Sunda pangolin trafficking pathways. *BMC biology*, 22(1), 274.

Russo A, et al. (2024) Genome of the early spider-orchid *Ophrys sphegodes* provides insights into sexual deception and pollinator adaptation. *Nature communications*, 15(1), 6308.

Vangestel C, et al. (2024) Chromosomal inversions from an initial ecotypic divergence drive a gradual repeated radiation of Galápagos beetles. *Science advances*, 10(22), eadk7906.

Vásquez C, et al. (2023) Natural mega disturbances drive spatial and temporal changes in diversity and genetic structure on the toadfish *Aphos porosus*. *Scientific reports*, 13(1), 13902.

Zhou C, et al. (2023) Genetic structure of an endangered species *Ormosia henryi* in southern China, and implications for conservation. *BMC plant biology*, 23(1), 220.

Sun Y, et al. (2023) Population Genomic Analyses Suggest a Hybrid Origin, Cryptic Sexuality, and Decay of Genes Regulating Seed Development for the Putatively Strictly Asexual *Kingdonia uniflora* (Circaeasteraceae, Ranunculales). *International journal of molecular sciences*, 24(2).

Silliman K, et al. (2023) Epigenetic and Genetic Population Structure is Coupled in a Marine Invertebrate. *Genome biology and evolution*, 15(2).