Resource Summary Report

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GenAlEx

RRID:SCR_021102
Type: Tool

Proper Citation

GenAlEx (RRID:SCR_021102)

Resource Information

URL: https://biology-assets.anu.edu.au/GenAlEx/Welcome.html

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Description: Software tool as cross platform package for population genetic analyses that runs within Microsoft Excel. Offers analysis of diploid codominant, haploid and binary genetic loci and DNA sequences.Originally developed as teaching tool to facilitate teaching population genetic analysis at graduate level.

Synonyms: GenAlEx 6.5, Genetic Analysis in Excel

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

Defining Citation: PMID:22820204

Keywords: population genetic analyses, Microsoft Excel, diploid codominant analysis, haploid genetic loci, binary genetic loci, DNA sequences analysis

Availability: Free, Available for download, Freely available

Resource Name: GenAlEx

Resource ID: SCR_021102

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260801T042830+0000

Ratings and Alerts

No rating or validation information has been found for GenAlEx.

Warning: Warning: PCA results may be sensitive to the sample size, population composition, and the number of columns, in which case the results will not be reliable, robust, nor replicable and should not be used to draw conclusions.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 75 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Mastrangelo AM, et al. (2025) A new wild emmer wheat panel allows to map new loci associated with resistance to stem rust at seedling stage. The plant genome, 18(1), e20413.

Belmahi Z, et al. (2025) Morphological and genetic diversity assessment of cultivated Thymus satureioides (endemic species) of Morocco. Journal, genetic engineering & biotechnology, 23(1), 100467.

González-Muñoz JC, et al. (2025) Genetic and morphological variation in the Colombian Bombyx mori germplasm: A first SSR-based assessment. PloS one, 20(8), e0330183.

Ofem NP, et al. (2025) Genetic diversity and structure of Asian cowpea germplasm. Scientific reports, 15(1), 27909.

Cabrini M, et al. (2025) Lithobiomes Heterogeneity and Geographic Distance Shape the Landscape Genomics Within Brazilian Mountain Systems. Ecology and evolution, 15(11), e72476.

I??k Kalpar R, et al. (2025) Microsatellite-based genetic diversity and population structure of local goat breeds in Cyprus. Research in veterinary science, 200, 106033.

Ualiyeva D, et al. (2024) Genetic Structure and Population History of the Zaisan Toad-Headed Agama (Phrynocephalus melanurus) Inferred from Mitochondrial DNA. Animals : an open access journal from MDPI, 14(2).

Dolatabad HK, et al. (2024) Geographical and climatic distribution of lentil-nodulating rhizobia in Iran. FEMS microbiology ecology, 100(5).

Gao Y, et al. (2024) Genomic insights into differentiation and adaptation of Amorphophallus yunnanensis in the mountainous region of Southwest China. Ecology and evolution, 14(1), e10861.

Cataño Tenorio I, et al. (2024) Spatial population genetic structure of Caquetaia kraussii (Steindachner, 1878) evidenced by species-specific microsatellite loci in the middle and low basin of the Cauca River, Colombia. PloS one, 19(6), e0304799.

Azon CF, et al. (2024) Molecular Diversity and Agronomic Performance of Sesame (Sesamum indicum) Cultivars in Benin: Local Cultivars and Lines Introduced From China. Plant-environment interactions (Hoboken, N.J.), 5(6), e70024.

Gogoi A, et al. (2023) Molecular genetic divergence analysis amongst high curcumin lines of Golden Crop (Curcuma longa L.) using SSR marker and use in trait-specific breeding. Scientific reports, 13(1), 19690.

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.

Beyramizadeh E, et al. (2023) Evaluating the effect of gamma rays on Zamiifolia (Zamioculcas zamiifolia) plant in vitro and genetic diversity of the resulting genotypes using the ISSR marker. Scientific reports, 13(1), 8308.

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.

Losada LCML, et al. (2023) High-Throughput Microsatellite Markers Development for Genetic Characterization of Emerging Sporothrix Species. Journal of fungi (Basel, Switzerland), 9(3).

Rahimi M, et al. (2023) Genetic diversity in Sickleweed (Falcaria vulgaris) and using stepwise regression to identify marker associated with traits. Scientific reports, 13(1), 12142.

Oligo S, et al. (2023) East Coast Fever Carrier Status and Theileria parva Breakthrough Strains in Recently ITM Vaccinated and Non-Vaccinated Cattle in Iganga District, Eastern Uganda. Pathogens (Basel, Switzerland), 12(2).

Rana N, et al. (2023) Morphological and molecular diversity in mid-late and late maturity genotypes of cauliflower. PloS one, 18(8), e0290495.

Saghir K, et al. (2022) Assessment of genetic diversity among wild rose in Morocco using ISSR and DAMD markers. Journal, genetic engineering & biotechnology, 20(1), 150.