

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 30, 2026

pcadapt

RRID:SCR_022019

Type: Tool

Proper Citation

pcadapt (RRID:SCR_022019)

Resource Information

URL: <https://cran.r-project.org/package=pcadapt>

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Description: Software R package for fast Principal Component Analysis for outlier detection. Used to detect genetic markers involved in biological adaptation. Performs genome scans for selection based on principal component analysis.

Resource Type: software toolkit, software resource

Defining Citation: [DOI:10.1111/1755-0998.12592](https://doi.org/10.1111/1755-0998.12592), [PMID:32343802](https://pubmed.ncbi.nlm.nih.gov/32343802/), [PMID:27601374](https://pubmed.ncbi.nlm.nih.gov/27601374/)

Keywords: PCA, genome scans, Principal Component Analysis, outlier detection, detect genetic markers involved in biological adaptation

Funding: LabEx PERSYVAL Lab ;
ANR AGRHUM

Availability: Free, Available for download, Freely available

Resource Name: pcadapt

Resource ID: SCR_022019

Alternate URLs: <https://github.com/bcm-uga/pcadapt>

License: GPL-2.0 License

Record Creation Time: 20220421T050138+0000

Record Last Update: 20260729T044527+0000

Ratings and Alerts

No rating or validation information has been found for pcadapt.

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 3 mentions in open access literature.

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

Shen Y, et al. (2024) Genomic insights into endangerment and conservation of the garlic-fruit tree (*Malania oleifera*), a plant species with extremely small populations. GigaScience, 13.

Pickett BD, et al. (2022) Genome assembly of the roundjaw bonefish (*Albula glossodonta*), a vulnerable circumtropical sportfish. GigaByte (Hong Kong, China), 2022, gigabyte44.

Gros-Balthazard M, et al. (2019) Evolutionary transcriptomics reveals the origins of olives and the genomic changes associated with their domestication. The Plant journal : for cell and molecular biology, 100(1), 143.