Resource Summary Report

Generated by NIF on Apr 28, 2025

PRSice

RRID:SCR_017057
Type: Tool

Proper Citation

PRSice (RRID:SCR_017057)

Resource Information

URL: http://prsice.info/

Proper Citation: PRSice (RRID:SCR_017057)

Description: Software R package for calculating, applying, evaluating and plotting results of polygenic risk scores analysis. Performs simulation study to estimate P value significance threshold for high resolution PRS studies and produces plots for inspection of results. Operating Unix/Linux.

Synonyms: prsice, PRSice-2, Polygenic Risk Score software, PRSice1, PRSice2

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

Defining Citation: PMID:25550326

Keywords: polygenic, risk, score, calculating, applying, plotting, result, bio.tools

Funding: EU ;
NIHR Biomedical Research Centre

Availability: Free, Available for download, Freely available

Resource Name: PRSice

Resource ID: SCR_017057

Alternate IDs: OMICS_23656, biotools:prsice

Alternate URLs: https://choishingwan.github.io/PRSice/, https://bio.tools/prsice

Record Creation Time: 20220129T080333+0000

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Ratings and Alerts

No rating or validation information has been found for PRSice.

No alerts have been found for PRSice.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 82 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Li X, et al. (2025) Variational Autoencoder-based Model Improves Polygenic Prediction in Blood Cell Traits. bioRxiv : the preprint server for biology.

Garg E, et al. (2024) Canadian COVID-19 host genetics cohort replicates known severity associations. PLoS genetics, 20(3), e1011192.

Sampatakakis SN, et al. (2024) Genetic Predisposition for White Matter Hyperintensities and Risk of Mild Cognitive Impairment and Alzheimer's Disease: Results from the HELIAD Study. Current issues in molecular biology, 46(1), 934.

Hoggart CJ, et al. (2024) BridgePRS leverages shared genetic effects across ancestries to increase polygenic risk score portability. Nature genetics, 56(1), 180.

Socrates AJ, et al. (2024) Polygenic risk of social isolation behavior and its influence on psychopathology and personality. Molecular psychiatry, 29(11), 3599.

Fang J, et al. (2024) Polygenic effects on brain functional endophenotype for deficit and non-deficit schizophrenia. Schizophrenia (Heidelberg, Germany), 10(1), 18.

Gao PY, et al. (2024) Physical frailty, genetic predisposition, and incident dementia: a large prospective cohort study. Translational psychiatry, 14(1), 212.

Yang JS, et al. (2024) Genome?wide association study and polygenic risk scores predict psoriasis and its shared phenotypes in Taiwan. Molecular medicine reports, 30(1).

Sun TH, et al. (2024) Utility of polygenic scores across diverse diseases in a hospital cohort for predictive modeling. Nature communications, 15(1), 3168.

Duan H, et al. (2024) Population clustering of structural brain aging and its association with brain development. eLife, 13.

Xiang R, et al. (2024) Genome-wide analyses of variance in blood cell phenotypes provide new insights into complex trait biology and prediction. medRxiv : the preprint server for health sciences.

Schuurmans IK, et al. (2024) Genetic susceptibility to neurodevelopmental conditions associates with neonatal DNA methylation patterns in the general population: an individual participant data meta-analysis. medRxiv : the preprint server for health sciences.

Li Q, et al. (2024) Neuroticism polygenic risk predicts conversion from mild cognitive impairment to Alzheimer's disease by impairing inferior parietal surface area. Human brain mapping, 45(7), e26709.

Duan H, et al. (2024) Population clustering of structural brain aging and its association with brain development. medRxiv : the preprint server for health sciences.

Saraçayd?n G, et al. (2024) Shared genetic etiology between ADHD, task-related behavioral measures and brain activation during response inhibition in a youth ADHD case-control study. European archives of psychiatry and clinical neuroscience, 274(1), 45.

He Q, et al. (2024) A genome-wide association study of neonatal metabolites. Cell genomics, 4(10), 100668.

Wu LY, et al. (2024) Investigation of the genetic aetiology of Lewy body diseases with and without dementia. Brain communications, 6(4), fcae190.

Li WD, et al. (2024) A genome-wide association study of occupational creativity and its relations with well-being and career success. Communications biology, 7(1), 1092.

Borda V, et al. (2024) Genetics of Latin American Diversity Project: Insights into population genetics and association studies in admixed groups in the Americas. Cell genomics, 4(11), 100692.

Saez-Atienzar S, et al. (2024) Mechanism-free repurposing of drugs for C9orf72-related ALS/FTD using large-scale genomic data. Cell genomics, 4(11), 100679.