

Resource Summary Report

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PEER

RRID:SCR_009326

Type: Tool

Proper Citation

PEER (RRID:SCR_009326)

Resource Information

URL: <http://www.sanger.ac.uk/resources/software/peer/>

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Description: Software collection of Bayesian approaches to infer hidden determinants and their effects from gene expression profiles using factor analysis methods. Applications of PEER have * detected batch effects and experimental confounders * increased the number of expression QTL findings by threefold * allowed inference of intermediate cellular traits, such as transcription factor or pathway activations This project offers an efficient and versatile C++ implementation of the underlying algorithms with user-friendly interfaces to R and python.

Abbreviations: PEER

Resource Type: software application, software resource

Defining Citation: [PMID:21283789](#), [PMID:20463871](#)

Keywords: gene, genetic, genomic, c++, r, python

Resource Name: PEER

Resource ID: SCR_009326

Alternate IDs: nlx_154532, OMICS_04597

Alternate URLs: <https://github.com/PMBio/peer/wiki>

Record Creation Time: 20220129T080252+0000

Record Last Update: 20260805T044221+0000

Ratings and Alerts

No rating or validation information has been found for PEER.

No alerts have been found for PEER.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 553 mentions in open access literature.

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

Esmaeili M, et al. (2026) Distinct regulatory elements of SLC6A14 expression contribute to modification of cystic fibrosis phenotypes. *Human genetics*, 145(1), 8.

Ni A, et al. (2025) Identifying candidate genetic variants for egg number by analyzing over 1,000 fully sequenced layers. *GigaScience*, 14.

Rice MM, et al. (2025) Terminology in ecology and evolutionary biology disproportionately harms marginalized groups. *PLoS biology*, 23(1), e3002933.

Ejezie CL, et al. (2025) Use of Digital Health Interventions for Cancer Prevention Among People Living With Disabilities in the United States: A Scoping Review. *Cancer medicine*, 14(2), e70571.

Jiahui L, et al. (2025) Breast Cancer Patients' Experiences of Coping With Financial Toxicity: A Systematic Review and Qualitative Meta-Synthesis. *Psycho-oncology*, 34(1), e70075.

Yu S, et al. (2025) A gene expression atlas of *Nicotiana tabacum* across various tissues at transcript resolution. *Frontiers in plant science*, 16, 1500654.

Mugisha N, et al. (2025) Addressing Cardiometabolic Challenges in HIV: Insights, Impact, and Best Practices for Optimal Management-A Narrative Review. *Health science reports*, 8(4), e70727.

O' Callaghan M, et al. (2025) The effect of conservative non-pharmacological interventions on the management of urinary incontinence in older adults living with frailty: Systematic review and meta-analysis. *PloS one*, 20(5), e0322742.

Abebaw SE, et al. (2025) A Global Review of the Impacts of Climate Change and Variability on Agricultural Productivity and Farmers' Adaptation Strategies. *Food science & nutrition*, 13(5), e70260.

Telkkälä A, et al. (2025) Etiology of Adult Female Acne-Systematic Review. *Health science reports*, 8(5), e70697.

Tait J, et al. (2025) Fetal Alcohol Spectrum Disorder: The Caring and Financial Burden to Caregivers-A Scoping Review. *Drug and alcohol review*, 44(5), 1468.

Chhabra M, et al. (2025) Cannabinoids for Medical Purposes in Children: A Living Systematic Review. *Acta paediatrica (Oslo, Norway : 1992)*, 114(9), 2148.

Niu ??? Q, et al. (2025) Comprehensive Multi-omics Analysis of Regulatory Variants for Body Weight in Cattle. *Genomics, proteomics & bioinformatics*, 23(4).

Ireland K, et al. (2025) Do hormones and surgery improve the health of adults with gender incongruence? A systematic review of patient reported outcomes. *ANZ journal of surgery*, 95(5), 864.

Vartiainen E, et al. (2025) Astrocytic-supplied cholesterol drives synaptic gene expression programs in developing neurons and downstream astrocytic transcriptional programs. *bioRxiv : the preprint server for biology*.

Delie AM, et al. (2025) Magnitude of Sexual and Reproductive Health Service Utilization Among Youths and Adolescents Living With Disability in Ethiopia: A Systematic Review and Meta-Analysis. *Health science reports*, 8(3), e70573.

Jang B, et al. (2025) SingleBrain: A Meta-Analysis of Single-Nucleus eQTLs Linking Genetic Risk to Brain Disorders. *medRxiv : the preprint server for health sciences*.

Häggman-Henrikson B, et al. (2025) Prevalence of Temporomandibular Disorder Symptoms After Whiplash Trauma-A Systematic Review and Meta-Analysis. *European journal of pain (London, England)*, 29(3), e4792.

Jayasinghe YA, et al. (2025) The Use of Diagnostic Tumor Markers in Detecting Tobacco- and Betel Quid-Induced Oral Squamous Cell Carcinoma: A Scoping Review of Empirical Evidence. *Health science reports*, 8(4), e70650.

Nnaji ND, et al. (2025) Chemical Toxicants Used for Food Preservation in Africa. Is it a Case of Ignorance or Food Fraud? A Review. *Health science reports*, 8(4), e70333.