

Resource Summary Report

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GAGE

RRID:SCR_017067

Type: Tool

Proper Citation

GAGE (RRID:SCR_017067)

Resource Information

URL: <http://bioconductor.org/packages/gage/>

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Description: Software R package for gene set enrichment or pathway analysis. Applicable independent of microarray or RNAseq data attributes including sample sizes, experimental designs, assay platforms, and other types of heterogeneity. Pipeline routines of multiple GAGE analyses in batch, comparison between parallel analyses, and combined analysis of heterogeneous data from different sources and studies.

Synonyms: Generally Applicable Gene-set Enrichment for pathway analysis, gage, Generally Applicable Gene-set Enrichment, GSEA

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

Keywords: gene, set, enrichment, pathway, batch, comparison, parallel, analysis, heterogeneous, data

Availability: Free, Available for download, Freely available

Resource Name: GAGE

Resource ID: SCR_017067

License: GPL

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260808T190103+0000

Ratings and Alerts

No rating or validation information has been found for GAGE.

No alerts have been found for GAGE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

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

Callaghan NI, et al. (2026) Advanced physiological maturation of human iPSC-derived cardiomyocytes using an algorithm-directed optimization of defined media components. Nature communications, 17(1).

Alderweireldt E, et al. (2026) Low-dose chronic exposure to hemin and kynurenine enhances metabolic adaptation in a colorectal cancer cell model. Scientific reports, 16(1).

Lee SM, et al. (2026) Host microRNA-31-5p regulates KHDRBS3 expression and modulates viral gene expression during KSHV lytic reactivation. Cell reports, 45(4), 117160.

Chen Q, et al. (2025) Gut microbiota analysis in children with autism spectrum disorder and their family members. Scientific reports, 15(1), 44282.

Synoground BF, et al. (2025) Transcriptomic Insights Into Serum-Free Medium Adaptation and Temperature Reduction in Chinese Hamster Ovary Cell Cultures. Biotechnology journal, 20(7), e70055.

Nath J, et al. (2025) Nanoplastics-mediated physiologic and genomic responses in pathogenic Escherichia coli O157:H7. Journal of nanobiotechnology, 23(1), 304.

Liu S, et al. (2024) Suppression of cerebral ischemia injury induced blood brain barrier breakdown by dexmedetomidine via promoting CCN1. Aging, 16(4), 3750.

Simbolo M, et al. (2024) Characterization of two transcriptomic subtypes of marker-null large cell carcinoma of the lung suggests different origin and potential new therapeutic perspectives. Virchows Archiv : an international journal of pathology, 484(5), 777.

Clayton SA, et al. (2024) Preclinical Multi-Omic Assessment of Pioglitazone in Skeletal Muscles of Mice Implanted with Human HER2/neu Overexpressing Breast Cancer Xenografts. bioRxiv : the preprint server for biology.

Kloosterman DJ, et al. (2024) Macrophage-mediated myelin recycling fuels brain cancer malignancy. Cell, 187(19), 5336.

Clayton SA, et al. (2024) Preclinical Multi-Omic Assessment of Pioglitazone in Skeletal Muscles of Mice Implanted with Human HER2/neu Overexpressing Breast Cancer Xenografts. *Cancers*, 16(21).

Raspa F, et al. (2024) Microbiota characterization throughout the digestive tract of horses fed a high-fiber vs. a high-starch diet. *Frontiers in veterinary science*, 11, 1386135.

Ruvinskiy D, et al. (2024) Adipose gene expression profiles in Northern Finncattle, Mirandesa cattle, Yakutian cattle and commercial Holstein cattle. *Scientific reports*, 14(1), 22216.

Aftab F, et al. (2023) An intrinsic purine metabolite AICAR blocks lung tumour growth by targeting oncoprotein mucin 1. *British journal of cancer*, 128(9), 1647.

van Hooren L, et al. (2023) CD103+ regulatory T cells underlie resistance to radio-immunotherapy and impair CD8+ T cell activation in glioblastoma. *Nature cancer*, 4(5), 665.

Pickles OJ, et al. (2023) MHC Class II is Induced by IFN γ and Follows Three Distinct Patterns of Expression in Colorectal Cancer Organoids. *Cancer research communications*, 3(8), 1501.

Kim Y, et al. (2023) MANF stimulates autophagy and restores mitochondrial homeostasis to treat autosomal dominant tubulointerstitial kidney disease in mice. *Nature communications*, 14(1), 6493.

Lemaitre P, et al. (2023) Molecular and cognitive signatures of ageing partially restored through synthetic delivery of IL2 to the brain. *EMBO molecular medicine*, 15(5), e16805.

Vermeersch AS, et al. (2023) Severe udder cleft dermatitis lesion transcriptomics points to an impaired skin barrier, defective wound repair and a dysregulated inflammatory response as key elements in the pathogenesis. *PloS one*, 18(7), e0288347.

Foury A, et al. (2023) Transcriptomic signature related to poor welfare of sport horses. *Comprehensive psychoneuroendocrinology*, 16, 100201.