

Resource Summary Report

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GSVA

RRID:SCR_021058

Type: Tool

Proper Citation

GSVA (RRID:SCR_021058)

Resource Information

URL: <https://www.bioconductor.org/packages/release/bioc/html/GSVA.html>

Proper Citation: GSVA (RRID:SCR_021058)

Description: Open source software R package for assaying variation of gene set enrichment over sample population. Used for microarray and RNA-seq data analysis. Gene set enrichment method that estimates variation of pathway activity over sample population in unsupervised manner.

Abbreviations: GSVA

Synonyms: Gene Set Variation Analysis

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

Defining Citation: [PMID:23323831](#)

Keywords: Gene set enrichment, variation estimation, pathway activity, sample population, microarray, RNA-seq, data analysis

Funding: ISCI/ COMBIOMED ;
Spanish MINECO ;
NCI U54 CA149237

Availability: Free, Available for download, Freely available

Resource Name: GSVA

Resource ID: SCR_021058

License: GPL

Record Creation Time: 20220129T080353+0000

Ratings and Alerts

No rating or validation information has been found for GSVA.

No alerts have been found for GSVA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 256 mentions in open access literature.

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

Hu YM, et al. (2026) Elevated Tumor-Associated Androgen Receptor Activity Correlates with Poor Immune Infiltration and Immunotherapy Response across Cancer Types. Cancer research communications, 6(1), 17.

Chen D, et al. (2026) Spatially Resolved Multiomics Reveals Metabolic Remodeling and Autophagy Activation in Adamantinomatous Craniopharyngiomas. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e16965.

Pietrantonio F, et al. (2025) The Prostaglandin EP4 Antagonist Vorbipirant Combined with PD-1 Blockade for Refractory Microsatellite-Stable Metastatic Colorectal Cancer: A Phase Ib/IIa Trial. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(4), 649.

Labaf M, et al. (2025) Heterogeneous Responses to High-Dose Testosterone in Castration-Resistant Prostate Cancer Tumors with Mixed Rb-Proficient and Rb-Deficient Cells. Molecular cancer therapeutics, 24(5), 772.

Xiong Z, et al. (2025) A novel defined manganese metabolism-related gene signature for predicting the prognosis of pancreatic ductal adenocarcinoma. Oncology letters, 30(3), 436.

Vallius T, et al. (2025) Spatial determinants of tumor cell dedifferentiation and plasticity in primary cutaneous melanoma. bioRxiv : the preprint server for biology.

Cheng C, et al. (2025) Integrative proteogenomic characterization of Wilms tumor. Nature communications, 16(1), 7715.

Yang J, et al. (2025) A PANoptosis-Based Signature for Survival and Immune Predication in Glioblastoma Multiforme. Annals of clinical and translational neurology, 12(7), 1334.

Lao Z, et al. (2025) Single-cell identification of an endothelial cell proximal SPP1+ macrophage population defines the metastatic vascular niche in lymph nodes. Scientific

reports, 15(1), 43896.

Xue Y, et al. (2025) Construction and validation of an anoikis-related prognostic model for lung adenocarcinoma based on bulk and single-cell transcriptomic data. *PloS one*, 20(11), e0335788.

Chang Y, et al. (2025) Integrated machine learning and single-cell analysis identify chromatin-remodeling gene signature for diagnosis and prognosis in nasopharyngeal carcinoma. *Clinical and experimental medicine*, 26(1), 16.

Wang L, et al. (2025) Multi-omics characterization of diabetic nephropathy in the db/db mouse model of type 2 diabetes. *Computational and structural biotechnology journal*, 27, 3399.

Shao C, et al. (2025) Radiotherapy-resistant prostate cancer cells escape immune checkpoint blockade through the senescence-related ataxia telangiectasia and Rad3-related protein. *Cancer communications (London, England)*, 45(3), 218.

Liang G, et al. (2025) Single cell transcriptome profiling reveals pathogenesis of bullous pemphigoid. *Communications biology*, 8(1), 203.

Li Y, et al. (2025) Single-Cell Transcriptomic Landscape Deciphers Intratumoral Heterogeneity and Subtypes of Acral and Mucosal Melanomas. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(12), 2495.

Emmanuel T, et al. (2025) Early Neutrophil Activation in Psoriatic Skin at Relapse Following Dead Sea Climatotherapy. *Experimental dermatology*, 34(4), e70094.

Wu J, et al. (2025) Integrated bioinformatics analysis screened the key genes and pathways of idiopathic pulmonary fibrosis. *Scientific reports*, 15(1), 14448.

Chiaro PD, et al. (2025) A framework to mine laser microdissection-based omics data and uncover regulators of pancreatic cancer heterogeneity. *GigaScience*, 14.

Xue Z, et al. (2025) KLF5-regulated ZDHHC8 reduces chemosensitivity in high-grade serous ovarian cancer through β -catenin signaling. *Scientific reports*, 15(1), 26176.

Ma T, et al. (2025) Pan-Cancer Analyses Refine the Single-Cell Portrait of Tumor-Infiltrating Dendritic Cells. *Cancer research*, 85(19), 3596.