

Resource Summary Report

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fgsea

RRID:SCR_020938

Type: Tool

Proper Citation

fgsea (RRID:SCR_020938)

Resource Information

URL: <https://bioconductor.org/packages/fgsea/>

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Description: Software R package for fast preranked gene set enrichment analysis. Allows to make more permutations and get more fine grained p-values, which allows to use accurate standard approaches to multiple hypothesis correction.

Synonyms: fast gene set enrichment analysis, Fast Gene Set Enrichment Analysis, FGSEA

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

Defining Citation: [DOI:10.1101/060012](https://doi.org/10.1101/060012)

Keywords: Gene set enrichment analysis, preranked gene set, multiple hypothesis correction, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: fgsea

Resource ID: SCR_020938

Alternate IDs: biotools:fgsea

Alternate URLs: <https://github.com/ctlab/fgsea/>, <https://bio.tools/fgsea>

License: MIT + file license

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260815T182649+0000

Ratings and Alerts

No rating or validation information has been found for fgsea.

No alerts have been found for fgsea.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 237 mentions in open access literature.

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

Brodsky AL, et al. (2026) Combination Therapy with Copanlisib and Niraparib in Patients with Recurrent Endometrial and Ovarian Cancer (COPANIRA): Efficacy, Toxicity, and Translational Insights. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(7), 1234.

Agarwal G, et al. (2026) Inherited resilience to clonal hematopoiesis by modifying stem cell RNA regulation. *Science (New York, N.Y.)*, 391(6780), 52.

Huang C, et al. (2026) STING activation induces polarized cytokine secretion of IFN- γ and IL-17A promoting photoreceptor death and choroidal disruption in age-related macular degeneration. *Cell death & disease*, 17(1).

Savage G, et al. (2026) Phenotypic Characterization and Prognostic Impact of CD103+ Tissue-Resident Memory T Cells in Diffuse Large B-cell Lymphoma. *Cancer immunology research*, 14(2), 291.

Fagnan A, et al. (2026) A mechanism to initiate emergency type 2 myelopoiesis. *Nature*, 653(8113), 212.

Stoiber S, et al. (2026) [18F]FDG PET/CT multiomics identifies Hedgehog-driven HPV-negative head and neck squamous cell carcinoma. *Molecular cancer*, 25(1).

Luff DH, et al. (2026) TACI regulates marginal zone B cell development. *The Journal of experimental medicine*, 223(6).

Ohlstrom DJ, et al. (2026) Longitudinal Profiling of Tumor and Immune Compartments Uncovers Patterns of Dysregulation and Associations with Response in Multiple Myeloma. *Blood cancer discovery*, 7(2), 266.

Liu XZ, et al. (2026) Targeting the Lipid Metabolism Proteins FASN and GPAM in Alveolar Type II Cells Decreases Lung Metastasis. *Cancer discovery*, 16(7), 1412.

Sirc N, et al. (2026) Functionally Characterizing the Renal Cell Carcinoma Tumor-Immune Microenvironment via Patient-Derived Ex Vivo Models. *Cancer research communications*,

6(2), 402.

Chen F, et al. (2026) CCL3+ Neutrophil Signature Predicts Response to Neoadjuvant Toripalimab plus Chemotherapy in Patients with Hypopharyngeal Squamous Cell Carcinoma: A Phase II Trial. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(11), 2166.

Pradhan B, et al. (2026) Dynamic and Ongoing De Novo L1 Retrotransposition Contributes to Genome Plasticity and Intrapatient Heterogeneity in Ovarian Cancer. *Cancer research*, 86(4), 1073.

Lasse Opsahl EL, et al. (2026) Fibroblast STAT3 Activation Drives Organ-Specific Premetastatic Niche Formation. *Cancer research*, 86(1), 22.

Sullivan GM, et al. (2026) Mapping the secondary response to traumatic brain injury using spatial transcriptomics shows acute 4-aminopyridine treatment mitigates axonal and molecular pathology. *Acta neuropathologica communications*, 14(1), 36.

Mitchell DK, et al. (2026) Inhibition of focal adhesion kinase impairs tumor formation and preserves hearing in a murine model of NF2-related schwannomatosis. *Science advances*, 12(5), eady8382.

Hu X, et al. (2026) Immune gene diversity and STING1 variants in shaping cancer immunity across different genetic ancestry populations. *Cell reports*, 45(2), 116882.

Spalato Ceruso M, et al. (2026) Adenosine A2B Receptor Promotes Tumor Progression and Metastases in Undifferentiated Pleomorphic Sarcoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(9), 1887.

Toropov AL, et al. (2026) The Role of Senescence in the Step-by-Step Development of Endometrial Cancer. *International journal of molecular sciences*, 27(5).

Aggrey-Fynn JE, et al. (2026) Epigenetic context defines the transcriptional activity of canonical and noncanonical NF- κ B signaling in pancreatic cancer. *Cell death discovery*, 12(1).

Huang KK, et al. (2026) Mutational Signatures and Clonal Hematopoiesis in Intestinal Metaplasia across Countries with Varying Stomach Cancer Incidence. *Cancer discovery*, 16(3), 497.