Resource Summary Report

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DESeq2

RRID:SCR_015687
Type: Tool

Proper Citation

DESeq2 (RRID:SCR_015687)

Resource Information

URL: https://bioconductor.org/packages/release/bioc/html/DESeq2.html

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Description: Software package for differential gene expression analysis based on the negative binomial distribution. Used for analyzing RNA-seq data for differential analysis of count data, using shrinkage estimation for dispersions and fold changes to improve stability and interpretability of estimates.

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

Keywords: differential, gene, expression, analysis, binominal, distribution, RNA-seq data, Bioconductor, bio.tools

Funding: European Union???s 7th Framework Programme ;
International Max Planck Research School for Computational Biology and Scientific Computing ;
NCI T32 CA009337

Availability: Free, Available for download, Freely available

Resource Name: DESeq2

Resource ID: SCR_015687

Alternate IDs: biotools:deseq2

Alternate URLs: https://github.com/mikelove/DESeq2, https://bio.tools/deseq2

License: LGPL

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260905T133006+0000

Ratings and Alerts

No rating or validation information has been found for DESeq2.

No alerts have been found for DESeq2.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 50789 mentions in open access literature.

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

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. Cancer cell, 44(1), 187.

Fresques T, et al. (2026) YAP1 Dysfunction Promotes Molecular Properties Linked to Breast Cancer Susceptibility. Cancer prevention research (Philadelphia, Pa.), 19(4), 203.

Nitsch S, et al. (2026) H4K16 acylations destabilize chromatin architecture and facilitate transcriptional response during metabolic perturbations. Molecular cell, 86(1), 24.

Cappadona C, et al. (2026) Multi-omics identifies oxidative stress, prothrombotic pathways, and lactoperoxidase variants as key factors in COVID-19 severity. EBioMedicine, 123, 106111.

D'Alessio A, et al. (2026) Neurometabolic adaptations to intestinal inflammation in a mouse model of colitis. American journal of physiology. Gastrointestinal and liver physiology, 330(2), G98.

Tollenaere A, et al. (2026) Mechanisms of gene regulation by SRCAP and H2A.Z. Nature communications, 17(1).

Yang Z, et al. (2026) Syndecan-1-targeted therapeutic antibody impairs macropinocytosis and elicits antitumor immunity in pancreatic cancer. Cell reports. Medicine, 7(2), 102613.

Ito T, et al. (2026) RLF/ZFP292 stabilize CoREST-linked LSD1 engagement at bivalent promoters to safeguard pluripotency. Cell reports, 45(4), 117293.

Sun JL, et al. (2026) Ferroptotic tumor cells reprogram tumor-associated macrophage antigen presentation to enhance the efficacy of immune checkpoint blockade. Cell reports. Medicine, 7(5), 102774.

Petrova V, et al. (2026) A human iPSC-derived sensory neuron platform for high-throughput discovery of neuroprotectants against chemotherapy-induced peripheral neuropathy. Cell reports. Medicine, 7(5), 102787.

Weerasopon K, et al. (2026) Loss of Ezh2 promotes M2-like macrophage polarization in hepatocellular carcinoma. iScience, 29(4), 115180.

van der Elst A, et al. (2026) Molecular and Immune Landscape of Recurrent and/or Distant Metastatic Squamous Cell Carcinoma of the Head and Neck: An EORTC/IMMUCAN Project. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(13), 2732.

Kelly B, et al. (2026) Sulfur partitioning from cysteine controls T cell proliferation and effector function. Cell, 189(12), 3669.

Sato K, et al. (2026) Aberrant Hippo-YAP/TEAD Signaling Drives Malignant Transcriptional Reprogramming in External Auditory Canal Squamous Cell Carcinoma. Cancer research communications, 6(2), 260.

Al-Azzam S, et al. (2026) Multi-omics profiling reveals microenvironmental remodeling as a key driver of house dust mite-induced lung cancer progression. Neoplasia (New York, N.Y.), 73, 101275.

Prasad M, et al. (2026) Genomic Enrichment and Functional Impact of TP53 and CYLD Alterations in Recurrent and Metastatic HPV-Associated Head and Neck Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(9), 1809.

Tsymala I, et al. (2026) Innate lymphoid cells integrate sensing and plasticity to control fungal infections. Cell reports, 45(4), 117140.

Li H, et al. (2026) Tumor Extracellular Vesicles lncOSLMT Drives Lung Inflammatory Premetastatic Niche Formation in Osteosarcoma via m6A-Dependent hnRNPA2B1/COX-2 Axis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(17), e19490.

Huang Y, et al. (2026) A positive feedback loop between FGR and p65 sustains satellite glial cell activation and chronic neuropathic pain. Cell reports, 45(2), 116899.

Yang J, et al. (2026) A Malignant Subpopulation of H2AFZ+ Cells Interacts with Myeloid Cells to Promote an Anti-inflammatory Microenvironment and Drive Hepatic Metastasis, Revealing an Immunotherapeutic Strategy for Pancreatic Ductal Adenocarcinoma. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(12), 2479.