

Resource Summary Report

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DESeq

RRID:SCR_000154

Type: Tool

Proper Citation

DESeq (RRID:SCR_000154)

Resource Information

URL: <http://bioconductor.org/packages/release/bioc/html/DESeq.html>

Proper Citation: DESeq (RRID:SCR_000154)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on August 30, 2023. Software for differential gene expression analysis based on the negative binomial distribution. It estimates variance-mean dependence in count data from high-throughput sequencing assays and tests for differential expression.

Abbreviations: DESeq

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

Defining Citation: [PMID:20979621](#), [DOI:10.1186/s13059-014-0550-8](#)

Keywords: gene expression, binomial, differential, negative binomial distribution, bio.tools

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: DESeq

Resource ID: SCR_000154

Alternate IDs: OMICS_01306, biotools:deseq

Alternate URLs: <https://bio.tools/deseq>, <https://sources.debian.org/src/r-bioc-deseq2/>

Record Creation Time: 20220129T080159+0000

Record Last Update: 20260729T043957+0000

Ratings and Alerts

No rating or validation information has been found for DESeq.

No alerts have been found for DESeq.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 473 mentions in open access literature.

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

Lee D, et al. (2026) Microglial VRK2 Regulates Astrocytic GABA Synthesis and Tonic Inhibition in the Thalamus. *Glia*, 74(1), e70101.

Halim S, et al. (2026) Dominant-negative TP53 mutations potentiated by the HSF1-regulated proteostasis network. *Molecular cell*.

Saini P, et al. (2026) Targeting Interactions Between Siglec-10 and α 5 β 1 Integrin Enhances Macrophage-Mediated Phagocytosis of Pancreatic Cancer. *Cancer research*, 86(1), 99.

Safari M, et al. (2026) Combined HDAC and eIF4A inhibition: A novel epigenetic therapy for pancreatic ductal adenocarcinoma. *Drug resistance updates : reviews and commentaries in antimicrobial and anticancer chemotherapy*, 84, 101312.

Liu L, et al. (2026) PRMT5 upregulates KCNMB4 expression via histone methylation to promote paclitaxel resistance in advanced nasopharyngeal carcinoma. *Cell death & disease*, 17(1), 19.

Wang H, et al. (2025) Phenotypic plasticity and increased infiltration of peripheral blood-derived TREM1+ mono-macrophages following radiotherapy in rectal cancer. *Cell reports. Medicine*, 6(1), 101887.

Mazumder H, et al. (2025) Human endogenous retroviruses (HERVs) associated with glioblastoma risk and prognosis. *Cancer gene therapy*, 32(6), 622.

Arafa AT, et al. (2025) Germline-Somatic Interactions in BRCA-Associated Cancers: Unique Molecular Profiles and Clinical Outcomes Linking ATM to TP53 Synthetic Essentiality. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(9), 1730.

Tin E, et al. (2025) SOCS1 Protects Acute Myeloid Leukemia against Allogeneic T Cell-Mediated Cytotoxicity. *Blood cancer discovery*, 6(3), 217.

Parejo-Alonso B, et al. (2025) PPAR γ Orchestrates a Prometastatic Metabolic Response to Microenvironmental Cues in Pancreatic Cancer. *Cancer research*, 85(17), 3275.

Deng H, et al. (2025) SHMT inhibitor synergizes with 5-Fu to suppress gastric cancer via cell cycle arrest and chemoresistance alleviation. NPJ precision oncology, 9(1), 135.

Zhao J, et al. (2025) Targeting plasticity in the pyrimidine synthesis pathway potentiates macrophage-mediated phagocytosis in pancreatic cancer models. The Journal of clinical investigation, 135(22).

Ciccone MF, et al. (2025) Loss of BPTF restores estrogen response and suppresses metastasis of mammary tumors. Nature communications, 16(1), 9168.

Liu Y, et al. (2025) DNA hypomethylation promotes UHRF1-and SUV39H1/H2-dependent crosstalk between H3K18ub and H3K9me3 to reinforce heterochromatin states. Molecular cell, 85(2), 394.

Cao B, et al. (2025) CV1-secreting sCAR-T cells potentiate the abscopal effect of microwave ablation in heterogeneous tumors. Cell reports. Medicine, 6(2), 101965.

Glymenaki M, et al. (2025) Roux-en-Y gastric bypass-associated fecal tyramine promotes colon cancer risk via increased DNA damage, cell proliferation, and inflammation. Microbiome, 13(1), 60.

Zhou X, et al. (2025) Potentiating anti-tumor immunity by re-engaging immune synapse molecules. Cell reports. Medicine, 6(3), 101975.

Torres-Mejia E, et al. (2025) Lung Cancer-Intrinsic SOX2 Expression Mediates Resistance to Checkpoint Blockade Therapy by Inducing Treg-Dependent CD8+ T-cell Exclusion. Cancer immunology research, 13(4), 496.

Yu JT, et al. (2025) Renal tubular epithelial IGFBP7 interacts with PKM2 to drive renal lipid accumulation and fibrosis. Molecular therapy : the journal of the American Society of Gene Therapy, 33(8), 3757.

Shan JL, et al. (2025) Reactivating cGAS-STING Signaling by Targeting SOS1 Enhances Antitumor Immunity in NRAS-Mutant Tumors. Cancer research, 85(16), 3015.