

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 processing software, data analysis 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: 20260728T043053+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 $\alpha 5 \beta 1$ 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.

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.

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.

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

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

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

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.

Yammine KM, et al. (2025) Failed cellular surveillance enables pathogenic matrix deposition in a COL2A1-related osteoarthritis. *The Journal of biological chemistry*, 301(8), 110436.

Wang Y, et al. (2025) Direct transdifferentiation of tumorigenic melanoma cells induces tumor cell reversion. *Cell death & disease*, 16(1), 563.

Chen K, et al. (2025) Tumor-Derived CCL16 Normalizes Tumor Vasculature through Macrophage ICAM-1 Receptor and Enhances Immunotherapy Efficacy in Hepatocellular Carcinoma. *Cancer research*, 85(19), 3633.

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.

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.

Petroulia S, et al. (2025) Uncovering Novel lncRNAs Linked to Melanoma Growth and Migration with CRISPR Inhibition Screening. *Cancer research communications*, 5(7), 1102.

Richhariya S, et al. (2025) Metabolic rewiring prevents neurodegeneration caused by chronic mitochondrial dysfunction. *Current biology : CB*, 35(22), 5443.