

Resource Summary Report

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Rsubread

RRID:SCR_016945

Type: Tool

Proper Citation

Rsubread (RRID:SCR_016945)

Resource Information

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

Proper Citation: Rsubread (RRID:SCR_016945)

Description: Software R package for sequence alignment and counting for R. Used for analyses of second and third generation sequencing data, for read mapping, read counting, SNP calling, short and long read alignment, quantification and mutation discovery. Includes assessment of sequence reads, read alignment, read summarization, exon-exon junction detection, fusion detection, detection of short and long indels, absolute expression calling and SNP calling. Can be used with reads generated from any of the major sequencing platforms including Illumina GA/HiSeq/MiSeq, Roche GS-FLX, ABI SOLiD and LifeTech Ion PGM/Proton sequencers.

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

Defining Citation: [PMID:23558742](#)

Keywords: sequence, alignment, counting, multi, seed, strategy, mapping, read, reference, genome, analysis, data, SNP, calling, mutation, discovery, bio.tools

Funding: Australian Government ;
Australian National Health and Medical Research Council ;
Victorian State Government Operational Infrastructure Support

Availability: Free, Available for download, Freely available

Resource Name: Rsubread

Resource ID: SCR_016945

Alternate IDs: biotools:rsubread

Alternate URLs: <https://bio.tools/rsubread>

License: GPL 3

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260905T132816+0000

Ratings and Alerts

No rating or validation information has been found for Rsubread.

No alerts have been found for Rsubread.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 203 mentions in open access literature.

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

Siff TE, et al. (2026) Orientia tsutsugamushi targets lamin A using Ank effectors and alters chromatin to inhibit NF- κ B. Communications biology, 9(1).

Caceres A, et al. (2026) Inactivation of Atp7b Copper Transporter in Intestinal Epithelial Cells Is Associated with Altered Lipid Processing and Cell Growth Machinery Independent from Hepatic Copper Accumulation and Severity of Liver Histology. The American journal of pathology, 196(2), 407.

Citron F, et al. (2026) DPY30 Is an Epigenetic Decoupler Linking Replication Stress to Immunoediting in Pancreatic Cancer. Cancer research, 86(12), 2837.

Centonze A, et al. (2026) A Plastic EMP1+ to LGR5+ Cell State Conversion as a Bypass to KRASG12D Pharmacologic Inhibition in Metastatic Colorectal Cancer. Cancer discovery, 16(2), 320.

Zhou Z, et al. (2026) Integrative analysis of the mouse cecal microbiome across diet, age, and weight in the diverse BXD population. Microbiome, 14(1).

Teodoro Júnior L, et al. (2026) Integrative RNA-Seq and TCGA-BRCA Analyses Highlight the Role of LINC01133 in Triple-Negative Breast Cancer. Biomedicines, 14(2).

Del Prete R, et al. (2026) IL21-STAT3 controls the pentose phosphate pathway to support metabolic reprogramming and tumor progression in chronic lymphocytic leukemia. HemaSphere, 10(1), e70292.

Palazzo FC, et al. (2026) A regulatory circuit operated by KDELR1 and KDELR3 fine-tunes the composition of the early secretory pathway. Cellular and molecular life sciences : CMLS, 83(1).

Ramírez-Durán N, et al. (2026) Signatures of the maternal-infant oral microbiome in contexts of imprisonment and social vulnerability. *Frontiers in dental medicine*, 7, 1805944.

Ambrosini M, et al. (2026) From clusters to clinic: An 8-gene signature combined with mucinous component stratifies benefit of anti-CTLA-4 addition to anti-PD-1 in dMMR/MSI-H metastatic colorectal cancer. *European journal of cancer (Oxford, England : 1990)*, 239, 116731.

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.

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

Kim H, et al. (2026) Myelin antigen capture in the CNS by B cells expressing EBV latent membrane protein 1 leads to demyelinating lesion formation. *Cell*.

Zhang Y, et al. (2025) In-depth functional analysis of BRD9 in fetal hematopoiesis reveals context-dependent roles. *iScience*, 28(3), 112010.

Pascual R, et al. (2025) Fibroblast hierarchy dynamics during mammary gland morphogenesis and tumorigenesis. *The EMBO journal*, 44(11), 3266.

Moore J, et al. (2025) Identification of a conserved subset of cold tumors responsive to immune checkpoint blockade. *Journal for immunotherapy of cancer*, 13(3).

Viz-Lasheras S, et al. (2025) A 5-transcript signature for discriminating viral and bacterial etiology in pediatric pneumonia. *iScience*, 28(2), 111747.

Rahmé R, et al. (2025) Mutant p53 regulates a distinct gene set by a mode of genome occupancy that is shared with wild type. *EMBO reports*, 26(5), 1315.

Morais LH, et al. (2025) The gut microbiome promotes mitochondrial respiration in the brain of a Parkinson's disease mouse model. *NPJ Parkinson's disease*, 11(1), 301.

Doggett K, et al. (2025) Inhibition of the minor spliceosome restricts the growth of a broad spectrum of cancers. *EMBO reports*, 26(15), 3937.