

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

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

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: 20260803T040724+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 188 mentions in open access literature.

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

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.

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

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

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.

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

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).

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.

Weber VJ, et al. (2025) CRISPR/Cas-mediated activation of genes associated with inherited retinal dystrophies in human cells for diagnostic purposes. JCI insight, 10(22).

Li H, et al. (2025) Disrupting AGR2/IGF1 paracrine and reciprocal signaling for pancreatic cancer therapy. Cell reports. Medicine, 6(2), 101927.

D'Amélio F, et al. (2025) Comprehensive RNA-Seq Analysis of Human Osteoclast Function in Response to Bothrops moojeni Venom Fractions: Pathways of Bone Resorption and Cytoskeletal Disruption. *Toxins*, 17(7).

Mustfa SA, et al. (2025) Porous Silicon Nanoneedles Efficiently Deliver Adenine Base Editor to Correct a Recurrent Pathogenic COL7A1 Variant in Recessive Dystrophic Epidermolysis Bullosa. *Advanced materials (Deerfield Beach, Fla.)*, 37(17), e2414728.

Oles AR, et al. (2025) MyoD is essential in rhabdomyosarcoma by promoting survival through differentiation and CYLD. *iScience*, 28(8), 113149.

Slater N, et al. (2025) Altered Transcriptome Signature in Primary Human Myotubes Exposed to Inclusion Body Myositis Serum: A Pilot Case Comparison of Anti-cN1A Positive and Negative Sera. *Muscles (Basel, Switzerland)*, 4(4).

Jeremian R, et al. (2025) Investigating the cell of origin and novel molecular targets in Merkel cell carcinoma: a historic misnomer. *Molecular oncology*.

Stupichev D, et al. (2025) AI-driven multimodal algorithm predicts immunotherapy and targeted therapy outcomes in clear cell renal cell carcinoma. *Cell reports. Medicine*, 6(8), 102299.

Marques CI, et al. (2025) Physiological plasticity in zebra finch color varieties mitigates DNA damage under oxidative stress. *iScience*, 28(7), 112937.

Semitekolou M, et al. (2025) Blood immunomap for prediction of responses to anti-PD-1 immunotherapy in metastatic non-small cell lung cancer. *iScience*, 28(9), 112804.

Ginley-Hidinger M, et al. (2024) Cis-regulatory control of transcriptional timing and noise in response to estrogen. *Cell genomics*, 4(5), 100542.

Senn KA, et al. (2024) Control of 3' splice site selection by the yeast splicing factor Fyv6. *eLife*, 13.