

Resource Summary Report

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STAR

RRID:SCR_004463

Type: Tool

Proper Citation

STAR (RRID:SCR_004463)

Resource Information

URL: <http://code.google.com/p/rna-star/>

Proper Citation: STAR (RRID:SCR_004463)

Description: Software performing alignment of high-throughput RNA-seq data. Aligns RNA-seq reads to reference genome using uncompressed suffix arrays.

Synonyms: Spliced Transcripts Alignment to Reference, Spliced Transcripts Alignment to a Reference (STAR), rna-star, ultrafast universal RNA-seq aligner

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

Defining Citation: [PMID:23104886](#), [DOI:10.1093/bioinformatics/bts635](#)

Keywords: RNA-seq data, alignment, RNA-seq reads alignment, reference genome, using uncompressed suffix arrays, bio.tools

Funding: NHGRI U54 HG004557

Resource Name: STAR

Resource ID: SCR_004463

Alternate IDs: biotools:star, OMICS_01254, SCR_015899

Alternate URLs: <https://github.com/alexdobin/STAR>, <https://bio.tools/star>, <https://sources.debian.org/src/rna-star/>

License: GNU General Public License, v3

Record Creation Time: 20220129T080224+0000

Record Last Update: 20260731T042704+0000

Ratings and Alerts

No rating or validation information has been found for STAR.

No alerts have been found for STAR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22809 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Muppirala AN, et al. (2026) Tachykinin signaling defines distinct populations of glia in the enteric nervous system. *Neuron*.

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.

Yan C, et al. (2026) RAS/MEK/PI3K pathway inhibition augments response to CD40 agonism by targeting CD11b+ Bregs thereby overcoming melanoma PD1-resistance. *Nature communications*, 17(1), 162.

Stern YE, et al. (2026) Targeting CDK12/13 Drives Mitotic Arrest to Overcome Resistance to KRASG12C Inhibitors. *Cancer research*, 86(2), 485.

Dalley R, et al. (2026) Human Neocortical Glutamatergic Neurons Revealed Through Multimodal Profiling. *bioRxiv : the preprint server for biology*.

Williams EC, et al. (2026) Expression of endogenous retroviral elements is associated with extracellular matrix remodeling in prostate cancer. *Mobile DNA*, 17(1), 1.

Avanessian SC, et al. (2026) IL2/IL15 Signaling Induces NK Cell Production of FLT3LG, Augmenting Anti-PD-1 Immunotherapy. *Cancer immunology research*, 14(1), 122.

Pilat DJ, et al. (2026) The gain-of-function TREM2-T96K mutation increases risk for Alzheimer's disease by impairing microglial function. *Neuron*, 114(1), 46.

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.

Huang X, et al. (2026) Integrin/CD44-targeted liposomes remodel the pulmonary microenvironment to alleviate acute exacerbation of pulmonary fibrosis. *Journal of*

controlled release : official journal of the Controlled Release Society, 389, 114427.

Sperschneider J, et al. (2026) The fungal pathogen *Rhizoctonia solani* AG-8 has 2 nuclear haplotypes that differ in abundance. *G3* (Bethesda, Md.), 16(1).

Kuang S, et al. (2026) NEAT1 Promotes Epileptogenesis in Tuberous Sclerosis Complex. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e04316.

Showpnil IA, et al. (2026) De Novo Heterozygous ZFX Frameshift Variant in a Female With an X-Linked Neurodevelopmental Disorder. *American journal of medical genetics. Part A*, 200(2), 521.

Niazian M, et al. (2026) CRISPR-induced knockouts reveal a dual role for the soybean *NFR5* gene in symbiotic nitrogen fixation and root hair development. *The plant genome*, 19(1), e70143.

Wang Z, et al. (2026) Multidimensional mapping of stimulation-responsive regulatory elements and candidate causal variants in T cell activation. *Science advances*, 12(1), eady2539.

Kukoly LM, et al. (2026) Sex-specific functional evolution of *Dmrt1* in African clawed frogs (*Xenopus*), and the importance of genetic tipping points in developmental biology. *PLoS genetics*, 22(1), e1011992.

Maung JN, et al. (2026) Altered lipid metabolism and inflammatory programs associate with adipocyte loss in familial partial lipodystrophy 2. *The Journal of clinical investigation*, 136(1).

He L, et al. (2026) High-Resolution Multiplexed Sequencing of Single-Cell Full-length Transcriptome Via Combinational Barcoded Tn5 Transposon Insertion. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e16013.

Aid M, et al. (2026) Long COVID involves activation of proinflammatory and immune exhaustion pathways. *Nature immunology*, 27(1), 61.