

Resource Summary Report

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zUMIs

RRID:SCR_016139

Type: Tool

Proper Citation

zUMIs (RRID:SCR_016139)

Resource Information

URL: <https://github.com/sdparekh/zUMIs>

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Description: Software pipeline to process RNA-seq data with UMIs. The input to this pipeline is paired-end fastq files, where one read contains the cDNA sequence and the other read contains UMI and Cell Barcode information.

Synonyms: zumi

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

Defining Citation: [DOI:10.1101/153940](https://doi.org/10.1101/153940)

Keywords: single-cell, RNA-seq, UMI, Genomics, shell, r, perl, rna, cdna, cell, sequencing, bio.tools

Availability: Open source, Free, Available for download

Resource Name: zUMIs

Resource ID: SCR_016139

Alternate IDs: biotools:zumis

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

License: GPLv3.0

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260905T132804+0000

Ratings and Alerts

No rating or validation information has been found for zUMIs.

No alerts have been found for zUMIs.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 128 mentions in open access literature.

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

Gaurav N, et al. (2026) HP1? self-assembles and cooperates with KAP1 in repression of long noncoding RNA AI662270 in ESCs. Cell reports, 45(2), 116874.

Paucar Iza YA, et al. (2026) Ontogeny and transcriptional regulation of Thetis cells. Nature, 653(8114), 538.

Jiang H, et al. (2026) Decoding Human Placental Cellular and Molecular Responses to Obesity and Fetal Growth. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(17), e09691.

Feng X, et al. (2026) Ribonuclease 4 Functions in Nociceptor-Mediated Nerve Homeostasis. Nature communications, 17(1).

Lu T, et al. (2026) Oocyte-specific acylglycerol kinase loss leads to infertility in mice via mitochondrial dysfunction. Communications biology, 9(1).

Pranter R, et al. (2026) Enrichment of Neural Crest Cells by Antibody Labeling and Flow Cytometry for Single-Cell Transcriptomics in a Lizard. Evolution & development, 28(1), e70030.

Sivarajan R, et al. (2026) Tonic and early interferons defend against respiratory viruses in primary human lung organoid-derived air-liquid interface cultures. Journal of virology, 100(6), e0210425.

Ogan BM, et al. (2026) FAM83H Regulates Postnatal T Cell Development Through Thymic Stroma Organization. European journal of immunology, 56(1), e70126.

Liu H, et al. (2025) Aging alters the effect of adiponectin receptor signaling on bone marrow-derived mesenchymal stem cells. Aging cell, 24(2), e14390.

Cardon A, et al. (2025) Single cell profiling of circulating autoreactive CD4 T cells from patients with autoimmune liver diseases suggests tissue imprinting. Nature communications, 16(1), 1161.

Hartmanis L, et al. (2025) Deciphering direct transcriptional effects of epigenetic compounds through large-scale new RNA profiling. Nature communications, 16(1), 6629.

Luzak V, et al. (2025) SLAM-seq reveals independent contributions of RNA processing and stability to gene expression in African trypanosomes. *Nucleic acids research*, 53(3).

Niehhs A, et al. (2025) Transient tissue residency and lymphatic egress define human CD56bright NK cell homeostasis. *Nature immunology*, 26(11), 2004.

Zhao A, et al. (2025) Maternal diabetes programs sexually dimorphic early-onset cardiovascular dysfunction in metabolically healthy offspring. *Cell reports. Medicine*, 6(11), 102454.

Vlassakev I, et al. (2025) The liver clock modulates circadian rhythms in white adipose tissue. *Molecular metabolism*, 101, 102249.

Sponheimer M, et al. (2025) TNF- α and IFN- γ differentially regulate AML cell susceptibility to CD70-antibody-mediated cytotoxicity. *Journal for immunotherapy of cancer*, 13(12).

Coskun H, et al. (2025) 3D spatial organization of heterogeneous nkx2.5+ progenitors in the zebrafish heart field pre-patterns cardiovascular development. *Nature communications*, 16(1), 11624.

Peralta Ramos JM, et al. (2025) Targeting CD38 immunometabolic checkpoint improves metabolic fitness and cognition in a mouse model of Alzheimer's disease. *Nature communications*, 16(1), 3736.

Yang J, et al. (2025) MARTRE family proteins negatively regulate CCR4-NOT activity to protect poly(A) tail length and promote translation of maternal mRNA. *Nature communications*, 16(1), 248.

Cerrizuela S, et al. (2025) Protocol update to: High-throughput scNMT protocol for multiomics profiling of single cells from mouse brain and pancreatic organoids. *STAR protocols*, 6(3), 103980.