Resource Summary Report

Generated by <u>NIF</u> on May 13, 2025

Cell Ranger

RRID:SCR_017344 Type: Tool

Proper Citation

Cell Ranger (RRID:SCR_017344)

Resource Information

URL: <u>https://support.10xgenomics.com/single-cell-gene</u>-expression/software/pipelines/latest/what-is-cell-ranger

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Description: Software tool as set of analysis pipelines that process chromium single cell RNA-seq output to align reads, generate feature-barcode matrices and perform clustering and gene expression analysis by 10xGenomics.

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

Keywords: Analysis, process, chromium, singe, cell, RNA-seq, align, read, barcode, matrice, clustering, gene, expression, 10xGenomics

Funding:

Availability: Restricted

Resource Name: Cell Ranger

Resource ID: SCR_017344

Record Creation Time: 20220129T080334+0000

Record Last Update: 20250513T061845+0000

Ratings and Alerts

No rating or validation information has been found for Cell Ranger .

No alerts have been found for Cell Ranger .

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 477 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Holden JM, et al. (2025) Chronic hyperglycemia alters retinal astrocyte microstructure and uptake of cholera toxin B in a murine model of diabetes. Journal of neurochemistry, 169(1), e16237.

Zeng W, et al. (2025) Ferroptotic Neutrophils Induce Immunosuppression and Chemoresistance in Breast Cancer. Cancer research, 85(3), 477.

Funasaki S, et al. (2025) Protocol for transcriptomic and epigenomic analyses of tip-like endothelial cells using scRNA-seq and ChIP-seq. STAR protocols, 6(1), 103326.

Li J, et al. (2025) Chronic degenerative failure of salivary glands can be reversed through restoring mitochondrial function. bioRxiv : the preprint server for biology.

Chin WL, et al. (2025) Coupling of response biomarkers between tumor and peripheral blood in patients undergoing chemoimmunotherapy. Cell reports. Medicine, 6(1), 101882.

Allman A, et al. (2025) Splenic fibroblasts control marginal zone B cell movement and function via two distinct Notch2-dependent regulatory programs. Immunity, 58(1), 143.

Poch T, et al. (2024) Intergenic risk variant rs56258221 skews the fate of naive CD4+ T cells via miR4464-BACH2 interplay in primary sclerosing cholangitis. Cell reports. Medicine, 5(7), 101620.

Amor C, et al. (2024) Prophylactic and long-lasting efficacy of senolytic CAR T cells against age-related metabolic dysfunction. Nature aging, 4(3), 336.

Vu LT, et al. (2024) Single-cell transcriptomics of the immune system in ME/CFS at baseline and following symptom provocation. Cell reports. Medicine, 5(1), 101373.

Chen J, et al. (2024) Reprogramming the Intrahepatic Cholangiocarcinoma Immune Microenvironment by Chemotherapy and CTLA-4 Blockade Enhances Anti-PD-1 Therapy. Cancer immunology research, 12(4), 400. Vercellino J, et al. (2024) Thrombopoietin mimetic stimulates bone marrow vascular and stromal niches to mitigate acute radiation syndrome. Stem cell research & therapy, 15(1), 123.

Salcher S, et al. (2024) Comparative analysis of 10X Chromium vs. BD Rhapsody whole transcriptome single-cell sequencing technologies in complex human tissues. Heliyon, 10(7), e28358.

Cha JH, et al. (2024) Chitinase 1: a novel therapeutic target in metabolic dysfunctionassociated steatohepatitis. Frontiers in immunology, 15, 1444100.

Montaño J, et al. (2024) Transcriptional re-programming of liver-resident iNKT cells into Tregulatory type-1-like liver iNKT cells involves extensive gene de-methylation. Frontiers in immunology, 15, 1454314.

Cao C, et al. (2024) CXCR4 orchestrates the TOX-programmed exhausted phenotype of CD8+ T cells via JAK2/STAT3 pathway. Cell genomics, 4(10), 100659.

Li H, et al. (2024) Protocol for mapping T cell activation using single-cell RNA-seq. STAR protocols, 5(4), 103409.

Yang M, et al. (2024) NAD+ metabolism enzyme NNMT in cancer-associated fibroblasts drives tumor progression and resistance to immunotherapy by modulating macrophages in urothelial bladder cancer. Journal for immunotherapy of cancer, 12(7).

Li Z, et al. (2024) Accurate identification of locally aneuploid cells by incorporating cytogenetic information in single cell data analysis. Scientific reports, 14(1), 24152.

Buse M, et al. (2024) Lineage tracing reveals transient phenotypic adaptation of tubular cells during acute kidney injury. iScience, 27(3), 109255.

Gadomski SJ, et al. (2024) Time- and cell-specific activation of BMP signaling restrains chondrocyte hypertrophy. iScience, 27(8), 110537.