

Resource Summary Report

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Cell Ranger

RRID:SCR_017344

Type: Tool

Proper Citation

Cell Ranger (RRID:SCR_017344)

Resource Information

URL: <https://support.10xgenomics.com/single-cell-gene-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

Availability: Restricted

Resource Name: Cell Ranger

Resource ID: SCR_017344

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260829T182536+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

Usage and Citation Metrics

We found 722 mentions in open access literature.

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

Lee D, et al. (2026) Microglial VRK2 Regulates Astrocytic GABA Synthesis and Tonic Inhibition in the Thalamus. *Glia*, 74(1), e70101.

Zhang Z, et al. (2026) Deficiency of lysosomal TMEM175 in myeloid macrophages exerts anti-tumor immunity via inflammasome and cross-presentation pathway. *Nature communications*, 17(1).

Ferrena A, et al. (2026) Single-Cell RNA Analysis of Murine Osteosarcoma Uncovers Skp2 Function in Metastasis, Genomic Instability, and Immune Activation and Reveals Additional Target Pathways. *Cancer research communications*, 6(4), 923.

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.

Wang K, et al. (2026) Ontogeny Dictates Oncogenic Potential, Lineage Hierarchy, and Therapy Response in Pediatric Leukemia. *Cancer discovery*, 16(3), 541.

Goala P, et al. (2026) IFN- γ -driven skewing towards Th1 over Th17 differentiation underlies CRS and neutropenia in CAR-T therapy. *The Journal of clinical investigation*, 136(1).

Yang J, et al. (2026) A Malignant Subpopulation of H2AFZ+ Cells Interacts with Myeloid Cells to Promote an Anti-inflammatory Microenvironment and Drive Hepatic Metastasis, Revealing an Immunotherapeutic Strategy for Pancreatic Ductal Adenocarcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(12), 2479.

Miyamoto T, et al. (2026) Chemotherapy induces an IL1 β -dependent neutrophil recruitment and activation that promote chemoresistance in metastatic ovarian cancer. *Journal for immunotherapy of cancer*, 14(6).

Li J, et al. (2026) FNDC4 Drives Metastasis and Immune Evasion in Pancreatic Cancer. *Cancer research*, 86(2), 349.

Murrey MW, et al. (2026) The myeloid SRC family kinase HCK regulates breast cancer growth by activating tumor-associated macrophage-led invasion and inhibiting cytotoxic T cell activity. *Frontiers in immunology*, 17, 1709102.

Eriksson J, et al. (2026) Single-Cell Lineage Tracing Uncovers Resistance Signatures and Sensitizing Strategies to FLT3 Inhibitors in Acute Myeloid Leukemia. *Cancer research*, 86(7), 1724.

Song G, et al. (2026) Excessive Kynurenine Metabolism Impairs Lysosomal acidification and Triggers mtDNA Release via the AHR/CISH/ATP6V1A Axis in Decidual Macrophages Associated with Unexplained Recurrent Pregnancy Loss. *International journal of biological sciences*, 22(2), 895.

Rub J, et al. (2026) Deep-Learning Tool ScVital Enables Species-Agnostic Integration of Cancer Cell States. *Cancer research*, 86(4), 858.

Fernandez Garcia M, et al. (2026) Transcriptomic and phenotypic convergence of neurodevelopmental disorder risk genes in vitro and in vivo. *Nature neuroscience*, 29(5), 1079.

Hashikawa K, et al. (2026) Esr1-dependent signaling and transcriptional maturation in the medial preoptic area of the hypothalamus shape the development of mating behavior during adolescence. *eLife*, 14.

Philbrook P, et al. (2026) Medium-Chain Fatty Acid Receptor GPR84 Modulates Cytotoxic CD8 T-cell Antitumor Immunity through Metabolic Reprogramming. *Cancer immunology research*, 14(4), 640.

Sakrepatna Nagaraj A, et al. (2026) Ex Vivo Immuno-Oncology Platform Reveals Spatial T-cell Infiltration Patterns Linked to ATR Inhibition Responses in High-Grade Serous Ovarian Cancer. *Cancer immunology research*, 14(4), 625.

Domingo J, et al. (2026) Nonlinear transcriptional responses to gradual modulation of transcription factor dosage. *eLife*, 13.

Arumugam P, et al. (2026) Mitochondrial transfer to granulocytic myeloid-derived suppressor cells augments immunosuppressive activity. *Cell reports*, 45(3), 117057.

Simmons SK, et al. (2026) Experimental and computational methods for allelic imbalance analysis from single-nucleus RNA-seq data. *Genome biology*, 27(1).