

Resource Summary Report

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10x Genomics: Chromium Controller Genetic Analyzer

RRID:SCR_019326

Type: Tool

Proper Citation

10x Genomics: Chromium Controller Genetic Analyzer (RRID:SCR_019326)

Resource Information

URL: <https://www.10xgenomics.com/instruments/chromium-controller/>

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Description: Genetic analyzer, referred to as Chromium Controller for combining large partition numbers with a diverse barcode library to generate >100,000 barcode-containing partitions. Chromium Controller runs low- and standard-throughput assays. It does not run high-throughput assays. Chromium Controller uses advanced microfluidics to perform single cell partitioning and barcoding in a matter of minutes. Powered by Next GEM technology, the Chromium Controller enables integrated analysis of single cells at massive scale.

Resource Type: instrument resource

Keywords: 10X Genomics, Genetic Analyzer, Instrument Equipment, USEdit

Availability: Commercially available

Specification URL: https://raw.githubusercontent.com/SciCrunch/RRID-Instruments/refs/heads/main/PDF/SCR_019326.pdf

Resource Name: 10x Genomics: Chromium Controller Genetic Analyzer

Resource ID: SCR_019326

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260801T190614+0000

Ratings and Alerts

No rating or validation information has been found for 10x Genomics: Chromium Controller Genetic Analyzer.

No alerts have been found for 10x Genomics: Chromium Controller Genetic Analyzer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Liu Z, et al. (2025) Viral-Track integrated single-cell RNA-sequencing reveals HBV lymphotropism and immunosuppressive microenvironment in HBV-associated hepatocellular carcinoma. *Communications biology*, 8(1), 1030.

Renatino Canevarolo R, et al. (2025) Epigenetic Plasticity Drives Carcinogenesis and Multi-Therapy Resistance in Multiple Myeloma. *Research square*.

Umeda M, et al. (2025) Fusion oncoproteins and cooperating mutations define disease phenotypes in NUP98-rearranged leukemia. *medRxiv : the preprint server for health sciences*.

Abu Nahia K, et al. (2025) Protocol for the preparation of zebrafish whole heart cell suspension for single-cell analyses. *STAR protocols*, 6(1), 103586.

Mu H, et al. (2025) Methionine intervention induces PD-L1 expression to enhance the immune checkpoint therapy response in MTAP-deleted osteosarcoma. *Cell reports. Medicine*, 6(3), 101977.

Valvo VM, et al. (2025) Olaparib and Radiotherapy Induce Type I Interferon- and CD8+ T Cell-Dependent Sensitization to Immunotherapy in Pancreatic Cancer. *Molecular cancer therapeutics*, 24(6), 843.

Wischnewski V, et al. (2025) The local microenvironment suppresses the synergy between irradiation and anti-PD1 therapy in breast-to-brain metastasis. *Cell reports*, 44(3), 115427.

Rebhun RB, et al. (2025) Phase 2 trial (NCI-COTC030) of adjuvant inhaled recombinant human IL-15 combined with amputation and adjuvant chemotherapy in dogs with appendicular osteosarcoma. *Frontiers in immunology*, 16, 1672790.

Snitow ME, et al. (2025) Stc1-expressing myofibroblasts are a developmentally distinct lineage cleared through apoptosis in the neonatal lung. *Cell reports*, 45(1), 116750.

Greene M, et al. (2025) A developmental program of early residency promotes the differentiation of divergent uterine NK cell subsets in humans. *bioRxiv : the preprint server*

for biology.

Álvarez-Prado ÁF, et al. (2025) Cancer cell and microenvironmental rewiring by ADAR1 loss impairs glioblastoma tumor growth and extends survival. *Cell reports*, 44(9), 116151.

Tasis A, et al. (2024) Single-Cell Analysis of Bone Marrow CD8+ T Cells in Myeloid Neoplasms Reveals Pathways Associated with Disease Progression and Response to Treatment with Azacitidine. *Cancer research communications*, 4(12), 3067.

Shouse AN, et al. (2024) Interleukin-2 receptor signaling acts as a checkpoint that influences the distribution of regulatory T cell subsets. *iScience*, 27(12), 111248.

Abu Nahia K, et al. (2024) scRNA-seq reveals the diversity of the developing cardiac cell lineage and molecular players in heart rhythm regulation. *iScience*, 27(6), 110083.

Schmidt D, et al. (2024) Oncogenic Calreticulin Induces Immune Escape by Stimulating TGF β Expression and Regulatory T-cell Expansion in the Bone Marrow Microenvironment. *Cancer research*, 84(18), 2985.

Kuo LW, et al. (2024) Blocking Tryptophan Catabolism Reduces Triple-Negative Breast Cancer Invasive Capacity. *Cancer research communications*, 4(10), 2699.

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.

Cheng W, et al. (2024) Single-cell RNA Sequencing Identifies a Novel Subtype of Microglia with High Cd74 Expression that Facilitates White Matter Inflammation During Chronic Cerebral Hypoperfusion. *Neurochemical research*, 49(10), 2821.

Rajan S, et al. (2023) Structurally Complex Osteosarcoma Genomes Exhibit Limited Heterogeneity within Individual Tumors and across Evolutionary Time. *Cancer research communications*, 3(4), 564.

Larcombe SD, et al. (2023) The developmental hierarchy and scarcity of replicative slender trypanosomes in blood challenges their role in infection maintenance. *Proceedings of the National Academy of Sciences of the United States of America*, 120(42), e2306848120.