

Resource Summary Report

Generated by [RRID](#) on Aug 6, 2026

Velocityto

RRID:SCR_018167

Type: Tool

Proper Citation

Velocityto (RRID:SCR_018167)

Resource Information

URL: <http://velocityto.org/>

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Description: Software package for analysis of expression dynamics in single cell RNA seq data. Enables estimations of RNA velocities of single cells by distinguishing unspliced and spliced mRNAs in standard single-cell RNA sequencing protocols. Estimates RNA velocity in single cell RNA sequencing datasets. RNA velocity estimation in Python or R.

Synonyms: velocityto.py, velocityto, velocityto.R

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

Keywords: Expression dynamic, single cell RNAseq data, data, RNAseq, RNA velocity, mRNA, RNAseq dataset, estimation RNA velocity

Availability: Free, Available for download, Freely available

Resource Name: Velocityto

Resource ID: SCR_018167

Alternate URLs: <https://github.com/velocityto-team/velocityto.py>,
<https://github.com/velocityto-team/velocityto.R>

License: BSD 2-Clause "Simplified" License

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260806T054657+0000

Ratings and Alerts

No rating or validation information has been found for Velocityto.

No alerts have been found for Velocityto.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 137 mentions in open access literature.

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

Kallio P, et al. (2025) A Multipotent PROX1+ Tumor Stem/Progenitor Cell Population Emerges during Intestinal Tumorigenesis and Mediates Radioresistance in Colorectal Cancer. *Cancer research*, 85(23), 4616.

Yu S, et al. (2025) Single-cell RNA sequencing uncovers cellular heterogeneity of granulosa cells and provides a signature for follicular development in chicken. *Poultry science*, 104(9), 105430.

Wang K, et al. (2025) Ontogeny Dictates Oncogenic Potential, Lineage Hierarchy, and Therapy Response in Pediatric Leukemia. *bioRxiv : the preprint server for biology*.

Li H, et al. (2025) Multiple cell types guided by neurocytes orchestrate horn bud initiation in dairy goats. *Genetics, selection, evolution : GSE*, 57(1), 34.

Shi Y, et al. (2025) Mechanisms of tumor persistence in metastatic melanoma following successful immunotherapy. *bioRxiv : the preprint server for biology*.

Wang Y, et al. (2025) Cmss1 limits FMDV infection by enhancing antigen presentation and CD8+ T cell responses. *Journal of virology*, 99(12), e0124925.

Embaie BT, et al. (2025) Comparative Single-Cell Transcriptomics of Human Neuroblastoma and Preclinical Models Reveals Conservation of an Adrenergic Cell State. *Cancer research*, 85(6), 1015.

Jiang X, et al. (2025) Depletion of Effector Regulatory T Cells Associates with Major Response to Induction Dual Immune Checkpoint Blockade. *Cancer discovery*, 15(8), 1569.

Hu S, et al. (2025) MMP9^{High} Neutrophils are Critical Mediators of Neutrophil Extracellular Traps Formation and Myocardial Ischemia/Reperfusion Injury. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(21), e2415205.

Zia S, et al. (2025) Age-impaired remyelination is associated with dysregulated microglial transitions. *Nature communications*, 16(1), 9951.

Chen B, et al. (2025) Single-cell and spatial transcriptomics reveals an anti-tumor neutrophil subgroup in microwave thermochemotherapy-treated lip cancer. *International journal of oral science*, 17(1), 40.

Murillo-Rincón AP, et al. (2025) Positional programs in early murine facial development and their role in human facial shape variability. *Nature communications*, 16(1), 10112.

Xu G, et al. (2025) Unique Sertoli cell adaptations support enhanced spermatogenesis in chickens. *Journal of animal science and biotechnology*, 16(1), 170.

Chen Y, et al. (2025) Spatial transcriptomics combined with single-nucleus RNA sequencing reveals glial cell heterogeneity in the human spinal cord. *Neural regeneration research*, 20(11), 3302.

Li J, et al. (2025) Organoid modeling reveals the tumorigenic potential of the alveolar progenitor cell state. *The EMBO journal*, 44(6), 1804.

Zhang L, et al. (2025) KLRG1 re-defines a leukemic clone of CD8 effector T cells sensitive to PI3K inhibitor in T cell large granular lymphocytic leukemia. *Cell reports. Medicine*, 6(4), 102036.

Gao S, et al. (2025) A single-cell transcriptomic atlas reveals the cell differentiation trajectory and the response to virus invasion in swelling clove of garlic. *Horticulture research*, 12(4), uhae365.

Kim CW, et al. (2025) Gut dysbiosis from high-salt diet promotes glioma via propionate-mediated TGF- β activation. *The Journal of experimental medicine*, 222(8).

Li X, et al. (2025) The Dynamically Evolving Cell States and Ecosystem from Benign Nevus to Melanoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(12), 2478.

Abdullah L, et al. (2025) The endogenous antigen-specific CD8⁺ T cell repertoire is composed of unbiased and biased clonotypes with differential fate commitments. *Immunity*, 58(3), 601.