

Resource Summary Report

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

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: 20260912T195858+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 152 mentions in open access literature.

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

Baurès M, et al. (2026) Targeting pre-existing club-like cells in prostate cancer potentiates androgen deprivation therapy. *EMBO molecular medicine*, 18(3), 943.

Han Z, et al. (2026) Single-Nucleus Transcriptome Reveals Cellular Heterogeneity and Transcriptional Response to Heat Stress in Skeletal Muscle. *Journal of cachexia, sarcopenia and muscle*, 17(1), e70217.

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

Liu P, et al. (2026) Spatiotemporal transcriptomic and metabolomic landscapes of wild soybean seed development reveal regulatory mechanisms of nutrient accumulation. *Plant communications*, 7(1), 101580.

Toropov AL, et al. (2026) The Role of Senescence in the Step-by-Step Development of Endometrial Cancer. *International journal of molecular sciences*, 27(5).

Shi H, et al. (2026) Chemotherapy-induced reactive myelopoiesis promotes expansion of immunosuppressive neutrophil-like monocytes in mice and humans. *JCI insight*, 11(10).

Li Z, et al. (2026) Stress-Induced Activation of Prolactin-NR4A1-Midkine Axis Exacerbates Skin Inflammation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(5), e09679.

Xu X, et al. (2026) A Multistep Immune-Competent Genetically Engineered Mouse Model Reveals Phenotypic Plasticity in Uveal Melanoma. *Cancer research*, 86(15), 3666.

Jaiswal A, et al. (2026) Spatial transcriptomics reveals altered communities and drivers of aberrant epithelia and pro-fibrotic fibroblasts in interstitial lung diseases. *Cell genomics*, 6(3), 101066.

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*.

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.

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.

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.

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

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

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.

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.

Maimon T, et al. (2025) Unsupervised Machine Learning Reveals Temporal Components of Gene Expression in HeLa Cells Following Release from Cell Cycle Arrest. *International journal of molecular sciences*, 26(19).