

Resource Summary Report

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scVelo

RRID:SCR_018168

Type: Tool

Proper Citation

scVelo (RRID:SCR_018168)

Resource Information

URL: <https://github.com/theislab/scvelo>

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Description: Software package for estimating and analyzing RNA velocities in single cells using dynamical modeling. RNA Velocity using dynamical modeling.

Synonyms: scvelo, single-cell RNA Velocity generalized to transient cell states

Resource Type: software resource, software toolkit

Keywords: RNA veloscity, analysis, single cell, dynamic modeling, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: scVelo

Resource ID: SCR_018168

Alternate IDs: biotools:scVelo

Alternate URLs: <https://scvelo.readthedocs.io/>, <https://bio.tools/scVelo>

License: BSD 3-Clause "New" or "Revised" License

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260821T194125+0000

Ratings and Alerts

No rating or validation information has been found for scVelo.

No alerts have been found for scVelo.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 246 mentions in open access literature.

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

López-Fuentes E, et al. (2026) Epigenetic and Transcriptional Programs Define Osteosarcoma Subtypes and Establish Targetable Vulnerabilities. *Cancer discovery*, 16(2), 296.

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

Panas D, et al. (2026) Interactive analysis of single-cell trajectories in 3D space with Cell Journey. *GigaScience*, 15.

Miao N, et al. (2026) Molecular signatures of cell diversity modulated by long noncoding RNAs in the human fetal spinal cord. *iScience*, 29(4), 115399.

Zhang Z, et al. (2026) Metformin Restores Mitochondrial Function and Neurogenesis in POLG Patient-Derived Brain Organoids. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(4), e17721.

Fiskin E, et al. (2026) Multi-modal skin atlas identifies a multicellular immune-stromal community associated with disrupted cornification and specific T cell expansion in atopic dermatitis. *Nature communications*, 17(1).

Davidson S, et al. (2026) The embryonic origins of site-specific arthritis. *Nature immunology*, 27(7), 1390.

Leshem R, et al. (2026) A cell atlas of the developing human outflow tract of the heart and its adult aortic valve derivatives. *eLife*, 14.

Chen K, et al. (2026) Targeting circulating mechanoresponsive monocytes and macrophages to reduce fibrosis. *Nature biomedical engineering*, 10(6), 1247.

Xie JJ, et al. (2026) Single-cell transcriptomics revealed molecular vulnerability in a human midbrain-like organoid model of Parkinson's disease. *iScience*, 29(2), 114674.

Raghavan V, et al. (2026) Dissecting and steering cell dynamics using spatially-informed RNA velocity with veloAgent. *Molecular systems biology*, 22(7), 1180.

Caballero-Sánchez N, et al. (2026) BACH1 orchestrates macrophage state transitions to coordinate regenerative inflammation. *Journal of immunology (Baltimore, Md. : 1950)*, 215(6).

Burgos-Ruiz AM, et al. (2026) A single-cell multiomics roadmap of zebrafish spermatogenesis reveals regulatory principles of male germline formation. *Molecular systems biology*, 22(1), 42.

Funagura N, et al. (2026) Histone demethylase KDM7A negatively regulates fibrotic macrophage polarization and lung fibrosis progression. *Communications biology*, 9(1).

Du R, et al. (2026) Thromboxane receptor activation in dendritic cells mitigates sepsis by suppressing S100a8/a9-mediated neutrophil recruitment. *Signal transduction and targeted therapy*, 11(1).

Wang C, et al. (2026) TRAP5 Inhibition Targeting Scar-Associated Macrophages Ameliorates Acute Kidney Injury to Chronic Kidney Disease Transition. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(26), e19855.

Bocci F, et al. (2026) Robust identification of cell-cell communication heterogeneity in single cells. *bioRxiv : the preprint server for biology*.

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

Al Rayyes I, et al. (2026) Mapping the transcriptional diversity of calcium signaling in the mouse and human brain. *iScience*, 29(6), 116055.

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