# Resource Summary Report

Generated by NIF on Sep 11, 2026

## tradeSeq

RRID:SCR_019238
Type: Tool

### Proper Citation

tradeSeq (RRID:SCR_019238)

### Resource Information

**URL:** https://github.com/statOmics/tradeSeq

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**Description:** Software tool as suite of tests for identifying dynamic temporal gene regulation using single cell RNA-seq data.Trajectory based differential expression analysis for sequencing data.

**Synonyms:** TRAjectory-based Differential Expression analysis for SEQuencing data

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

**Keywords:** Dynamic temporal gene regulation, gene regulation identifying, gene regulation, single cell RNA-seq data, differential expression analysis, sequencing data, bio.tools

**Availability:** Free, Available for download, Freely available

**Resource Name:** tradeSeq

**Resource ID:** SCR_019238

**Alternate IDs:** biotools:tradeseq

**Alternate URLs:** https://bioconductor.org/packages/tradeSeq/, https://bio.tools/tradeseq

**License:** MIT

**Record Creation Time:** 20220129T080344+0000

**Record Last Update:** 20260905T132847+0000

### Ratings and Alerts

No rating or validation information has been found for tradeSeq.

No alerts have been found for tradeSeq.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 47 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF .


Deng F, et al. (2026) Microoxic conditions promote Escherichia-associated cellulase expression in the giant panda gut. The ISME journal, 20(1).

Jin H, et al. (2026) Dissecting the development of bovine testicular tissue using spatial transcriptomics. Journal of animal science and biotechnology, 17(1), 21.

Wu D, et al. (2026) Development of Intervertebral Disc Organoids through Directed Differentiation of Mesenchymal Stem Cells and Hierarchical 3D Printing. ACS nano, 20(12), 9619.

Karmali N, et al. (2026) Single-cell RNA profiling of oligodendroglial lineage cells derived from iPSCs carrying Parkinson's disease-relevant LRRK2-G2019S mutation. iScience, 29(7), 116368.

Chen Z, et al. (2026) Prenatal THC exposure disrupts mitochondrial respiratory gene programs and medium spiny neuron maturation trajectories in the nucleus accumbens. bioRxiv : the preprint server for biology.

Majeed S, et al. (2026) Single-cell transcriptomic profiling reveals innate-like cytotoxic intraepithelial lymphocyte expansion during Salmonella Enteritidis infection in chickens. Frontiers in immunology, 17, 1842283.

Kurz L, et al. (2026) A common progenitor gives rise to fibroblastic reticular cells and vascular smooth muscle cells in murine lymph nodes. The Journal of experimental medicine, 223(2).

Varin A, et al. (2026) A Subset of Pro-inflammatory CXCL10+ LILRB2+ Macrophages Derives From Recipient Monocytes and Drives Renal Allograft Rejection. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(10), e21294.

Wang S, et al. (2026) CBP/p300 is critical for the expansion and maintenance of functional pancreatic ? cell mass. Nature communications, 17(1).

Abitbol JM, et al. (2026) Dual mechanisms of supporting cell regeneration in the neonatal mouse cochlea. iScience, 29(3), 115113.

Wang Z, et al. (2026) Spatial multi-omics unveils the monoclonal origin, neuroendocrine plasticity, and microenvironment niches in combined small-cell lung cancer. Cell reports. Medicine, 7(4), 102741.

Lee JB, et al. (2026) A Phase II Study of Stereotactic Ablative Radiotherapy plus Atezolizumab plus Tiragolumab in Treatment-Naïve Patients with Advanced Non-Small Cell Lung Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 32(14), 2898.

Azami T, et al. (2025) STAT3 signaling enhances tissue expansion during postimplantation mouse development. Cell reports, 44(4), 115506.

Azambuja AP, et al. (2025) Spatial patterning of the epigenome during vertebrate gastrulation. Nature communications, 17(1), 800.

Grimes JM, et al. (2025) Oncolytic reprogramming of tumor microenvironment shapes CD4 T-cell memory via the IL6ra-Bcl6 axis for targeted control of glioblastoma. Nature communications, 16(1), 1095.

Ladd B, et al. (2025) Heterogeneity in an adeno-associated virus transfection-based production process limits the production efficiency. Scientific reports, 15(1), 38459.

Hu S, et al. (2025) MMP9High Neutrophils are Critical Mediators of Neutrophil Extracellular Traps Formation and Myocardial Ischemia/Reperfusion Injury. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(21), e2415205.

Li Y, et al. (2025) Single-cell and spatial analysis reveals the interaction between ITLN1+ foam cells and SPP1+ macrophages in atherosclerosis. Frontiers in cardiovascular medicine, 12, 1510082.

Matern MS, et al. (2025) A developmental atlas of mouse vestibular-like inner ear organoids. iScience, 28(2), 111817.

Kgoadi K, et al. (2025) Alveolar macrophages from persons with HIV mount impaired TNF signaling networks to M. tuberculosis infection. Nature communications, 16(1), 2397.