

Resource Summary Report

Generated by NIF on May 20, 2025

SPRING

RRID:SCR_023578

Type: Tool

Proper Citation

SPRING (RRID:SCR_023578)

Resource Information

URL: <https://kleintools.hms.harvard.edu/tools/spring.html>

Proper Citation: SPRING (RRID:SCR_023578)

Description: Interactive web tool to visualize single cell data using force directed graph layouts. Kinetic interface for visualizing high dimensional single cell expression data. Collection of pre-processing scripts and web browser based tool for visualizing and interacting with high dimensional data.

Resource Type: web service, software resource, data access protocol

Defining Citation: [PMID:29228172](https://pubmed.ncbi.nlm.nih.gov/29228172/)

Keywords: visualizing high dimensional single cell expression data, single cell expression data visualization, high dimensional data,

Funding: NIGMS 5T32GM080177;
NCI 1R33CA212697;
Burroughs-Wellcome Career Award at the Scientific Interface ;
Edward J Mallinckrodt Foundation Fellowship

Availability: Free, Available for download, Freely available

Resource Name: SPRING

Resource ID: SCR_023578

Alternate URLs: <https://github.com/AllonKleinLab/SPRING/>,
https://github.com/AllonKleinLab/SPRING_dev

Record Creation Time: 20230520T050209+0000

Record Last Update: 20250519T204425+0000

Ratings and Alerts

No rating or validation information has been found for SPRING.

No alerts have been found for SPRING.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Nazari F, et al. (2025) Lossless and reference-free compression of FASTQ/A files using GeneSqueeze. Scientific reports, 15(1), 322.

Jou V, et al. (2024) Regeneration-specific promoter switching facilitates Mest expression in the mouse digit tip to modulate neutrophil response. NPJ Regenerative medicine, 9(1), 32.

Xu XP, et al. (2024) High-resolution yeast actin structures indicate the molecular mechanism of actin filament stiffening by cations. Communications chemistry, 7(1), 164.

Jou V, et al. (2024) Regeneration-specific promoter switching facilitates Mest expression in the mouse digit tip to modulate neutrophil response. bioRxiv : the preprint server for biology.

Zvirblyte J, et al. (2024) Single-cell transcriptional profiling of clear cell renal cell carcinoma reveals a tumor-associated endothelial tip cell phenotype. Communications biology, 7(1), 780.

Champion C, et al. (2024) OneNet-One network to rule them all: Consensus network inference from microbiome data. PLoS computational biology, 20(12), e1012627.

Simpson Ragdale H, et al. (2023) Injury primes mutation-bearing astrocytes for dedifferentiation in later life. Current biology : CB, 33(6), 1082.

Nishimura A, et al. (2023) Myeloid/natural killer (NK) cell precursor acute leukemia as a distinct leukemia type. Science advances, 9(50), eadj4407.

Mann D, et al. (2023) Atg18 oligomer organization in assembled tubes and on lipid

membrane scaffolds. *Nature communications*, 14(1), 8086.

Basher ARMA, et al. (2023) Heterogeneity-Preserving Discriminative Feature Selection for Subtype Discovery. *bioRxiv : the preprint server for biology*.

Fletcher-Hoppe C, et al. (2023) Symbiotic UCYN-A strains co-occurred with El Niño, relaxed upwelling, and varied eukaryotes over 10 years off Southern California. *ISME communications*, 3(1), 63.

Hu H, et al. (2023) Thyroid Cancers Exhibit Oncogene-Enhanced Macropinocytosis that Is Restrained by IGF1R and Promote Albumin-Drug Conjugate Response. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 29(17), 3457.

Lin TY, et al. (2021) Fibroblast dedifferentiation as a determinant of successful regeneration. *Developmental cell*, 56(10), 1541.

Rodriguez-Fraticelli AE, et al. (2020) Single-cell lineage tracing unveils a role for TCF15 in haematopoiesis. *Nature*, 583(7817), 585.

Jakobi AJ, et al. (2020) Structural basis of p62/SQSTM1 helical filaments and their role in cellular cargo uptake. *Nature communications*, 11(1), 440.

Barrios SPG, et al. (2019) Synanthropy and diversity of Phlebotominae in an area of intense transmission of visceral leishmaniasis in the South Pantanal floodplain, Midwest Brazil. *PloS one*, 14(5), e0215741.

Vianna EN, et al. (2017) Chagas disease ecoepidemiology and environmental changes in northern Minas Gerais state, Brazil. *Memorias do Instituto Oswaldo Cruz*, 112(11), 760.

Marzluff JM, et al. (2016) Breeding Dispersal by Birds in a Dynamic Urban Ecosystem. *PloS one*, 11(12), e0167829.

de Andrade FA, et al. (2016) Geographical Analysis for Detecting High-Risk Areas for Bovine/Human Rabies Transmitted by the Common Hematophagous Bat in the Amazon Region, Brazil. *PloS one*, 11(7), e0157332.

Araujo RV, et al. (2015) São Paulo urban heat islands have a higher incidence of dengue than other urban areas. *The Brazilian journal of infectious diseases : an official publication of the Brazilian Society of Infectious Diseases*, 19(2), 146.