Resource Summary Report

Generated by dkNET on Apr 26, 2025

GeneSwitches

RRID:SCR_022826
Type: Tool

Proper Citation

GeneSwitches (RRID:SCR_022826)

Resource Information

URL: https://geneswitches.ddnetbio.com/

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Description: Software tool to discover order of gene expression and functional events during cell state transitions at single cell resolution. Works on any single cell trajectory or pseudo time ordering of cells to discover genes that act as on/off switches between cell states and ordering at which these switches take place. Takes any single-cell pseudo-time trajectory and determines precise order of gene expression and functional event changes over time.

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

Defining Citation: PMID:32058565

Keywords: Ordering gene expression and functional events, single cell experiments, cell state transitions at single cell resolution, discover genes switches between cell states

Funding: Singapore National Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: GeneSwitches

Resource ID: SCR_022826

Alternate URLs: https://github.com/SGDDNB/GeneSwitches

Record Creation Time: 20221006T194909+0000

Record Last Update: 20250426T060915+0000

Ratings and Alerts

No rating or validation information has been found for GeneSwitches.

No alerts have been found for GeneSwitches.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Yu Q, et al. (2025) Causal genes identification of giant cell arteritis in CD4+?Memory t cells: an integration of multi-omics and expression quantitative trait locus analysis. Inflammation research : official journal of the European Histamine Research Society ... [et al.], 74(1), 3.

Lusby R, et al. (2025) Pan-cancer drivers of metastasis. Molecular cancer, 24(1), 2.

Wang K, et al. (2025) Exploring the Role of Ccn3 in Type III Cell of Mice Taste Buds. Journal of neurochemistry, 169(1), e16291.

Vercauteren Drubbel A, et al. (2023) Single-cell transcriptomics uncovers the differentiation of a subset of murine esophageal progenitors into taste buds in vivo. Science advances, 9(10), eadd9135.

Quah HS, et al. (2023) Single cell analysis in head and neck cancer reveals potential immune evasion mechanisms during early metastasis. Nature communications, 14(1), 1680.

Xia Y, et al. (2023) Spatial single cell analysis of tumor microenvironment remodeling pattern in primary central nervous system lymphoma. Leukemia, 37(7), 1499.

Hu H, et al. (2022) Dental niche cells directly contribute to tooth reconstitution and morphogenesis. Cell reports, 41(10), 111737.