Resource Summary Report

Generated by NIF on Sep 3, 2026

Palantir

RRID:SCR_027194
Type: Tool

Proper Citation

Palantir (RRID:SCR_027194)

Resource Information

URL: https://github.com/dpeerlab/Palantir/

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Description: Algorithm to align cells along differentiation trajectories. Models trajectories of differentiating cells by treating cell fate as probabilistic process and leverages entropy to measure cell plasticity along the trajectory. Generates high-resolution pseudo-time ordering of cells and, for each cell state, assigns probability of differentiating into each terminal state.

Resource Type: algorithm resource, software resource, source code

Defining Citation: PMID:30899105

Keywords: Trajectory, align cells along differentiation trajectories,

Funding: NCI P30 CA008748;
NCI R01CA164729;
NICHD DP1-HD084071

Availability: Free, Available for download, Freely available

Resource Name: Palantir

Resource ID: SCR_027194

License: MIT license

Record Creation Time: 20250715T054951+0000

Record Last Update: 20260903T004730+0000

Ratings and Alerts

No rating or validation information has been found for Palantir.

No alerts have been found for Palantir.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Wang Q, et al. (2026) Serglycin Drives LAG3+ Treg Differentiation and Immunosuppression in Gastric Cancer. Cancer research, 86(10), 2395.

Wu S, et al. (2025) Ferret model of bleomycin-induced lung injury shares features of human idiopathic pulmonary fibrosis. NPJ Regenerative medicine, 10(1), 53.

Murillo-Rinc??n 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 Z, et al. (2025) SemiLT: A Multianchor Transfer Learning Method for Cross-Modality Cell Label Annotation from scRNA-seq to scATAC-seq. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(43), e07846.

Sugihara R, et al. (2022) Alignment of single-cell trajectory trees with CAPITAL. Nature communications, 13(1), 5972.