Resource Summary Report

Generated by dkNET on May 12, 2025

celltrackR

RRID:SCR_021021
Type: Tool

Proper Citation

celltrackR (RRID:SCR_021021)

Resource Information

URL: https://cran.r-project.org/web/packages/celltrackR/index.html

Proper Citation: celltrackR (RRID:SCR_021021)

Description: Software R package to analyze immune cell migration data. Supports pipeline for track analysis by providing methods for data management, quality control, extracting and visualizing migration statistics, clustering tracks, and simulating cell migration.Available measures include displacement, confinement ratio, autocorrelation, straightness, turning angle, and fractal dimension. Measures can be applied to entire tracks, steps, or subtracks with varying length.

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

Defining Citation: DOI:10.1101/670505v1

Keywords: Immune cell migration data, dimensional space, cell analysis, cell migration, cell tracks, cell migration data, displacement, confinement ratio, autocorrelation, turning angle, fractal dimension

Funding: NIAID U01 AI095550;
NIAID R01 AI077600

Availability: Free, Available for download, Freely available

Resource Name: celltrackR

Resource ID: SCR_021021

Alternate URLs: https://github.com/ingewortel/celltrackR

License: GPL-2

Record Creation Time: 20220129T080353+0000

Record Last Update: 20250508T065934+0000

Ratings and Alerts

No rating or validation information has been found for celltrackR.

No alerts have been found for celltrackR.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Lodewijk GA, et al. (2024) Self-organization of embryonic stem cells into a reproducible embryo model through epigenome editing. bioRxiv : the preprint server for biology.

Martin E, et al. (2024) Time-resolved proximity proteomics uncovers a membrane tension-sensitive caveolin-1 interactome at the rear of migrating cells. eLife, 13.

Wortel IMN, et al. (2022) Listeria motility increases the efficiency of epithelial invasion during intestinal infection. PLoS pathogens, 18(12), e1011028.

Wortel IMN, et al. (2021) CelltrackR: An R package for fast and flexible analysis of immune cell migration data. Immunoinformatics (Amsterdam, Netherlands), 1-2.