Resource Summary Report

Generated by NIF on Apr 21, 2025

FlowSOM

RRID:SCR_016899
Type: Tool

Proper Citation

FlowSOM (RRID:SCR_016899)

Resource Information

URL: https://github.com/SofieVG/FlowSOM

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Description: Software tool to analyze Flow or mass cytometry data using a Self-Organizing Map. Used to obtain an overview of how all markers are behaving on all cells, and to detect subsets that might be missed otherwise.

Synonyms: FlowSOM, Flow Self Organizing Map

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

Defining Citation: PMID:25573116

Keywords: flow, cytometry, data, analysis, self, organizing, map, marker, cell, detect, bio.tools

Funding:

Availability: Free, Available for download, Freely available

Resource Name: FlowSOM

Resource ID: SCR_016899

Alternate IDs: biotools:flowsom

Alternate URLs: https://bioconductor.org/packages/release/bioc/html/FlowSOM.html, https://www.flowjo.com/exchange/#/plugin/profile?id=7, https://bio.tools/flowsom

License: GPL

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250421T054140+0000

Ratings and Alerts

No rating or validation information has been found for FlowSOM.

No alerts have been found for FlowSOM.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 78 mentions in open access literature.

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

Shirasawa M, et al. (2025) Diversity of TCR repertoire predicts recurrence after CRT followed by durvalumab in patients with NSCLC. NPJ precision oncology, 9(1), 17.

Wang J, et al. (2024) LILRB1-HLA-G axis defines a checkpoint driving natural killer cell exhaustion in tuberculosis. EMBO molecular medicine, 16(8), 1755.

Kim J, et al. (2024) Cytometry masked autoencoder: An accurate and interpretable automated immunophenotyper. Cell reports. Medicine, 5(11), 101808.

Cramer A, et al. (2024) Early-life thymectomy leads to an increase of granzyme-producing ?? T cells in children with congenital heart disease. Nature communications, 15(1), 9841.

Yoshikawa T, et al. (2024) Development of a chimeric cytokine receptor that captures IL-6 and enhances the antitumor response of CAR-T cells. Cell reports. Medicine, 5(5), 101526.

Eric H, et al. (2024) High expression of PD-L1 on conventional dendritic cells in tumour-draining lymph nodes is associated with poor prognosis in oral cancer. Cancer immunology, immunotherapy : CII, 73(9), 165.

Grant ET, et al. (2024) Dietary fibers boost gut microbiota-produced B vitamin pool and alter host immune landscape. Microbiome, 12(1), 179.

Lakshmikanth T, et al. (2024) Immune system adaptation during gender-affirming testosterone treatment. Nature, 633(8028), 155.

Kleftogiannnis D, et al. (2024) Automated cell type annotation and exploration of single-cell signaling dynamics using mass cytometry. iScience, 27(7), 110261.

Darguzyte M, et al. (2024) Long-Term Human Immune Reconstitution, T-Cell Development, and Immune Reactivity in Mice Lacking the Murine Major Histocompatibility Complex: Validation with Cellular and Gene Expression Profiles. Cells, 13(20).

Coffey DG, et al. (2024) Phase 1 study combining elotuzumab with autologous stem cell transplant and lenalidomide for multiple myeloma. Journal for immunotherapy of cancer, 12(4).

Couckuyt A, et al. (2024) Efficient cytometry analysis with FlowSOM in Python boosts interoperability with other single-cell tools. Bioinformatics (Oxford, England), 40(4).

Elizaldi SR, et al. (2024) Chronic SIV-Induced neuroinflammation disrupts CCR7+ CD4+ T cell immunosurveillance in the rhesus macaque brain. The Journal of clinical investigation, 134(9).

Tao W, et al. (2024) Parameter optimization for stable clustering using FlowSOM: a case study from CyTOF. Frontiers in immunology, 15, 1414400.

Tasis A, et al. (2024) Single-Cell Analysis of Bone Marrow CD8+ T Cells in Myeloid Neoplasms Reveals Pathways Associated with Disease Progression and Response to Treatment with Azacitidine. Cancer research communications, 4(12), 3067.

Wang F, et al. (2024) SPDB: a comprehensive resource and knowledgebase for proteomic data at the single-cell resolution. Nucleic acids research, 52(D1), D562.

Al Assi A, et al. (2024) A novel inhibitor of the mitochondrial respiratory complex I with uncoupling properties exerts potent antitumor activity. Cell death & disease, 15(5), 311.

Caulier B, et al. (2024) CD37 is a safe chimeric antigen receptor target to treat acute myeloid leukemia. Cell reports. Medicine, 5(6), 101572.

Ulutekin C, et al. (2024) B cell depletion attenuates CD27 signaling of T helper cells in multiple sclerosis. Cell reports. Medicine, 5(1), 101351.

Cook L, et al. (2024) Dysregulated Immunity to Clostridioides difficile in IBD Patients Without a History of Recognized Infection. Inflammatory bowel diseases, 30(5), 820.