

Resource Summary Report

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

Defining Citation: [PMID:25573116](#)

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

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: 20260803T040730+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 106 mentions in open access literature.

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

Mayer M, et al. (2025) Deciphering the cellular tumor microenvironment landscape in salivary gland carcinomas using multiplexed imaging mass cytometry. Journal of experimental & clinical cancer research : CR, 44(1), 288.

Georgakis S, et al. (2025) Delineation of the Human Germinal Centre Immune Landscape Using Multiplex Imaging Analysis. Immunology, 176(1), 87.

Min Q, et al. (2025) The Effect of Cryopreservation on T-Cell Subsets by Flow Cytometry Automated Algorithmic Analysis and Conventional Analysis. Journal of clinical laboratory analysis, 39(3), e25146.

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.

Kusterer M, et al. (2025) Dynamic evolution of TCF3-PBX1 leukemias at the single-cell level under chemotherapy pressure. HemaSphere, 9(2), e70071.

Montesi G, et al. (2025) Machine learning approaches to dissect hybrid and vaccine-induced immunity. Communications medicine, 5(1), 282.

Astarloa-Pando G, et al. (2025) Natural killer cells adopt an activated and decidual-like phenotype after autologous hematopoietic stem cell transplantation in children with cancer. Communications medicine, 5(1), 205.

Hemati H, et al. (2025) Phenotypic and Functional Alterations in Peripheral Blood Mononuclear Cell-Derived Microglia in a Primate Model of Chronic Alcohol Consumption. bioRxiv : the preprint server for biology.

Loaiza Naranjo JD, et al. (2025) PD-1 expressing islet-specific CD4+ T??cells promote bystander tolerance and prevent autoimmunity. Immunology and cell biology, 103(7), 738.

Li G, et al. (2025) CD24-Fc resolves inflammation and enhances anti-HIV CD8 T cells with polyfunctionality during HIV-1 infection under cART. PLoS pathogens, 21(8), e1012826.

- Rovsing AB, et al. (2025) Multiparametric Optimization of Human Primary B-Cell Cultures Using Design of Experiments. *Scandinavian journal of immunology*, 102(2), e70043.
- Maeda S, et al. (2025) Comprehensive and advanced T cell cluster analysis for discriminating seropositive and seronegative rheumatoid arthritis. *Frontiers in immunology*, 16, 1491041.
- Shafer AM, et al. (2025) Immunocompetent Murine Models Recapitulate the Heterogeneous Tumor-Immune Microenvironment of Human Liposarcoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(23), 5078.
- Kulkarni AJ, et al. (2025) L-Phenylalanine is a metabolic checkpoint of human Th2 cells. *Cell reports. Medicine*, 6(12), 102466.
- Yoon JW, et al. (2025) Th1-poised naive CD4 T cell subpopulation reflects anti-tumor immunity and autoimmune disease. *Nature communications*, 16(1), 1962.
- Ciabattini A, et al. (2025) Longitudinal immunogenicity cohort study of SARS-CoV-2 mRNA vaccines across individuals with different immunocompromising conditions: heterogeneity in the immune response and crucial role of Omicron-adapted booster doses. *EBioMedicine*, 113, 105577.
- Hemati H, et al. (2025) Chronic alcohol consumption enhances the differentiation capacity of hematopoietic stem and progenitor cells into osteoclast precursors. *bioRxiv : the preprint server for biology*.
- Novais EJ, et al. (2025) Genetics- and age-driven neuroimmune and disc changes underscore herniation susceptibility and pain-associated behaviors in SM/J mice. *Science advances*, 11(17), eado6847.
- Li HL, et al. (2025) Immune Activation Signatures Associated with Fatigue in Cancer Patients Undergoing Immune Checkpoint Inhibitor Therapy. *Cancer research communications*, 5(10), 1738.
- Theobald SJ, et al. (2025) Deep immune profiling delineates hallmarks of disease heterogeneity in extrapulmonary tuberculosis. *Nature communications*, 16(1), 9662.