Resource Summary Report

Generated by RRID on May 22, 2025

Phenograph

RRID:SCR_016919
Type: Tool

Proper Citation

Phenograph (RRID:SCR_016919)

Resource Information

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

Proper Citation: Phenograph (RRID:SCR_016919)

Description: Software tool as clustering method designed for high dimensional single cell data. Algorithmically defines phenotypes in high dimensional single cell data. Used for large scale analysis of single cell heterogeneity.

Abbreviations: PhenoGraph

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

Defining Citation: PMID:26095251

Keywords: high, dimention, single, cell, data, phenotype, analysis, heterogeneity

Funding: NIGMS R00 GM104148;
NICHD DP1 HD084071;
NCI R01 CA164729;
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US Department of Health and Human Services HHSN272200700038C;
NIH N01 HV00242;
NCI P01 CA034233;
NIAID U19 AI057229;
NCI U54 CA149145;
US FDA HHSF223201210194C;

US DOD W81XWH1210591;
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CIRM DR1 01477;
CIRM RB201592;
Stand Up To Cancer Phillip A. Sharp Award SU2CAACRPS04;
Packard Fellowship for Science and Engineering ;
NIH Office of the Director DP2 OD002414

Availability: Free, Available for download, Freely available

Resource Name: Phenograph

Resource ID: SCR_016919

Alternate URLs: https://github.com/JinmiaoChenLab/Rphenograph

Old URLs: https://github.com/jacoblevine/PhenoGraph

License: MIT License

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250522T061105+0000

Ratings and Alerts

No rating or validation information has been found for Phenograph.

No alerts have been found for Phenograph.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 167 mentions in open access literature.

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

Lee Y, et al. (2025) Segmentation aware probabilistic phenotyping of single-cell spatial protein expression data. Nature communications, 16(1), 389.

Takashima S, et al. (2025) STAT1 regulates immune-mediated intestinal stem cell proliferation and epithelial regeneration. Nature communications, 16(1), 138.

Cornman HL, et al. (2025) Targeted dual biologic therapy for erythroderma of unknown etiology guided by high-parameter peripheral blood immunophenotyping. Scientific reports, 15(1), 1298.

Moorman A, et al. (2025) Progressive plasticity during colorectal cancer metastasis. Nature, 637(8047), 947.

Hermelo I, et al. (2025) Unsupervised clustering reveals noncanonical myeloid cell subsets in the brain tumor microenvironment. Cancer immunology, immunotherapy : CII, 74(2), 63.

Yildiz O, et al. (2025) Lipid-mediated resolution of inflammation and survival in amyotrophic lateral sclerosis. Brain communications, 7(1), fcae402.

Lund H, et al. (2024) CD163+ macrophages monitor enhanced permeability at the blood-dorsal root ganglion barrier. The Journal of experimental medicine, 221(2).

Attrill MH, et al. (2024) The immune landscape of the inflamed joint defined by spectral flow cytometry. Clinical and experimental immunology, 218(3), 221.

Lötstedt B, et al. (2024) Spatial host-microbiome sequencing reveals niches in the mouse gut. Nature biotechnology, 42(9), 1394.

Ak Ç, et al. (2024) Multiplex imaging of localized prostate tumors reveals altered spatial organization of AR-positive cells in the microenvironment. iScience, 27(9), 110668.

Dintwe OB, et al. (2024) Adolescent BCG revaccination induces a phenotypic shift in CD4+ T cell responses to Mycobacterium tuberculosis. Nature communications, 15(1), 5191.

Booth JS, et al. (2024) Role of circulating T follicular helper subsets following Ty21a immunization and oral challenge with wild type S. Typhi in humans. Frontiers in immunology, 15, 1384642.

Brooks ER, et al. (2024) A single-cell atlas of spatial and temporal gene expression in the mouse cranial neural plate. bioRxiv : the preprint server for biology.

Pulliam T, et al. (2024) Intratumoral STING agonist reverses immune evasion in PD-(L)1-refractory Merkel cell carcinoma: mechanistic insights from detailed biomarker analyses. Journal for immunotherapy of cancer, 12(10).

Friedel J, et al. (2024) Mast cell-derived interleukin-4 mediates activation of dendritic cell during toll-like receptor 2-mediated inflammation. Frontiers in immunology, 15, 1353922.

Garber HR, et al. (2024) Durvalumab and tremelimumab before surgery in patients with hormone receptor positive, HER2-negative stage II-III breast cancer. Oncotarget, 15, 238.

Zhao D, et al. (2024) Spatial iTME analysis of KRAS mutant NSCLC and immunotherapy outcome. NPJ precision oncology, 8(1), 135.

Cui S, et al. (2024) Mcadet: A feature selection method for fine-resolution single-cell RNA-seq data based on multiple correspondence analysis and community detection. PLoS computational biology, 20(10), e1012560.

Mašek J, et al. (2024) Jag1 insufficiency alters liver fibrosis via T cell and hepatocyte differentiation defects. EMBO molecular medicine, 16(11), 2946.

Ekstedt S, et al. (2024) Phenotypical differences of neutrophils patrolling tumour-draining lymph nodes in head and neck cancer. British journal of cancer, 131(12), 1893.