

# Resource Summary Report

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## Phenograph

RRID:SCR\_016919

Type: Tool

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### Proper Citation

Phenograph (RRID:SCR\_016919)

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### 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:** data processing software, data analysis software, software resource, software application

**Defining Citation:** [PMID:26095251](#)

**Keywords:** high, dimension, single, cell, data, phenotype, analysis, heterogeneity

**Funding:** NIGMS R00 GM104148;  
NICHD DP1 HD084071;  
NCI R01 CA164729;  
NCI U54 CA121852;  
NCI R01 CA130826;  
NCI U54 CA143907;  
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;  
Entertainment Industry Foundation ;  
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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:** 20250417T065601+0000

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## Ratings and Alerts

No rating or validation information has been found for Phenograph.

No alerts have been found for Phenograph.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 167 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

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), fae402.
- 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.

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

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.

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.