# Resource Summary Report

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## Phenograph

RRID:SCR_016919
Type: Tool

### Proper Citation

Phenograph (RRID:SCR_016919)

### Resource Information

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

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**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 application, software resource

**Defining Citation:** PMID:26095251

**Keywords:** high, dimention, 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 ;
Rachford and Carlota Harris Endowed Professorship ;
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:** 20260801T190545+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 213 mentions in open access literature.

**Listed below are recent publications.** The full list is available at T1D .

Wang Y, et al. (2025) MuCST: restoring and integrating heterogeneous morphology images and spatial transcriptomics data with contrastive learning. Genome medicine, 17(1), 21.

Nguyen AA, et al. (2025) Sequential Lymphotoxin Beta Receptor and Retinoic Acid Receptor signals regulate cDC2 fates. Research square.

Okuno N, et al. (2025) Brain macrophages and pial fibroblasts promote inflammation in a hypomyelination model. Acta neuropathologica communications, 13(1), 145.

Zampini M, et al. (2025) Characterization and Clinical Implications of p53 Dysfunction in Patients With Myelodysplastic Syndromes. Journal of clinical oncology : official journal of the American Society of Clinical Oncology, 43(18), 2069.

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

Kuipers J, et al. (2025) Single-cell copy number calling and event history reconstruction. Bioinformatics (Oxford, England), 41(3).

Wirth L, et al. (2025) High-Dimensional Analysis of Type 2 Lymphocyte Dynamics During Mepolizumab or Dupilumab Treatment in Severe Asthma. Allergy, 80(9), 2541.

Peesh P, et al. (2025) Benefits of equilibrium between microbiota- and host-derived ligands of the aryl hydrocarbon receptor after stroke in aged male mice. Nature communications, 16(1), 1767.

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.

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

Desai SS, et al. (2025) The tumor microenvironment of non-small cell lung cancer impairs immune cell function in people with HIV. The Journal of clinical investigation, 135(14).

Cristaldi V, et al. (2025) The immune cell dynamics in the peripheral blood of cHL patients receiving anti-PD1 treatment. Frontiers in oncology, 15, 1518107.

Li X, et al. (2025) SPEX: A modular end-to-end platform for high-plex tissue spatial omics analysis. GigaScience, 14.

Mikulak J, et al. (2025) Tissue-specific antitumor NK cell subsets identified in colorectal cancer liver metastases express candidate therapeutic targets. The Journal of clinical investigation, 135(24).

Jaeger-Ruckstuhl CA, et al. (2025) Phase I Study of ROR1-Specific CAR-T Cells in Advanced Hematopoietic and Epithelial Malignancies. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(3), 503.

Chung DC, et al. (2025) CD103+CD56+ ILCs Are Associated with an Altered CD8+ T-cell Profile within the Tumor Microenvironment. Cancer immunology research, 13(4), 527.

Patel RS, et al. (2025) Mixed lipopeptide-based mucosal vaccine candidate induces cross-variant immunity and protects against SARS-CoV-2 infection in hamsters. ImmunoHorizons, 9(2).

Chen L, et al. (2025) Zonated Copper-Driven Breast Cancer Progression Countered by a Copper-Depleting Nanoagent for Immune and Metabolic Reprogramming. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(20), e2412434.

Cheung AM, et al. (2025) Intra-tumoral spatial heterogeneity in breast cancer quantified using high-dimensional protein multiplexing and single cell phenotyping. Breast cancer research : BCR, 27(1), 88.

Hellenthal KEM, et al. (2025) DPP4 inhibition curbs systemic inflammation. Critical care (London, England), 29(1), 359.