

Resource Summary Report

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Markov Affinity based Graph Imputation of Cells

RRID:SCR_022371

Type: Tool

Proper Citation

Markov Affinity based Graph Imputation of Cells (RRID:SCR_022371)

Resource Information

URL: <https://github.com/KrishnaswamyLab/MAGIC>

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Description: Software tool for imputing missing values restoring structure of large biological datasets. Method that shares information across similar cells, via data diffusion, to denoise cell count matrix and fill in missing transcripts.

Abbreviations: MAGIC

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

Defining Citation: [PMID:29961576](#)

Keywords: imputing missing values, restoring structure, shares information across similar cells, denoise cell count matrix, fill in missing transcripts

Funding: American Cancer Society ;
NCI P30 CA008748;
NCI R01 CA164729;
NICHD DP1 HD084071;
Simons SFARI grants

Availability: Free, Available for download, Freely available

Resource Name: Markov Affinity based Graph Imputation of Cells

Resource ID: SCR_022371

License: GNU GPL v2.0

Record Creation Time: 20220602T050140+0000

Record Last Update: 20260903T235827+0000

Ratings and Alerts

No rating or validation information has been found for Markov Affinity based Graph Imputation of Cells.

No alerts have been found for Markov Affinity based Graph Imputation of Cells.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 86 mentions in open access literature.

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

Toropov AL, et al. (2026) The Role of Senescence in the Step-by-Step Development of Endometrial Cancer. International journal of molecular sciences, 27(5).

Zhang MS, et al. (2026) BCAT1-dependent HIF-1 α stabilization is a targetable metabolic vulnerability in hepatocellular carcinoma. Cell reports. Medicine, 7(5), 102784.

Notarantonio AB, et al. (2025) Differential Clinical and Immunological Impacts of Anti-T-Lymphocyte Globulin (ATLG) vs. Anti-Thymocyte Globulin (ATG) in Preventing Graft-Versus-Host Disease Post-Allogeneic Hematopoietic Stem Cell Transplantation: A Comparative Study. American journal of hematology, 100(4), 626.

Zhang L, et al. (2025) KLRG1 re-defines a leukemic clone of CD8 effector T cells sensitive to PI3K inhibitor in T cell large granular lymphocytic leukemia. Cell reports. Medicine, 6(4), 102036.

Jin W, et al. (2025) Semi-automated IT-scATAC-seq profiles cell-specific chromatin accessibility in differentiation and peripheral blood populations. Nature communications, 16(1), 2635.

Venkat A, et al. (2025) AAnet Resolves a Continuum of Spatially Localized Cell States to Unveil Intratumoral Heterogeneity. Cancer discovery, 15(10), 2139.

Martelin E, et al. (2025) Ruxolitinib treatment outcomes in acute graft-versus-host disease (aGvHD) in a real-world setting in Finland. Annals of hematology, 104(6), 3451.

Bao Y, et al. (2025) Calbindin 2 as a Novel Biomarker and Therapeutic Target for Abdominal Aortic Aneurysm: Integrative Analysis of Human Proteomes and Genetics. Journal of the American Heart Association, 14(9), e039195.

Kalfon J, et al. (2025) scPRINT: pre-training on 50 million cells allows robust gene network predictions. Nature communications, 16(1), 3607.

Byanju R, et al. (2025) 3D multi-phase balanced non-steady-state free precession acquisition for multi-parameter mapping. *Magma (New York, N.Y.)*, 38(5), 873.

Zhang L, et al. (2025) Educational attainment, body mass index, and smoking as mediators in kidney disease risk: a two-step Mendelian randomization study. *Renal failure*, 47(1), 2476051.

Ferguson JN, et al. (2025) A deficient CP24 allele defines variation for dynamic nonphotochemical quenching and photosystem II efficiency in maize. *The Plant cell*, 37(4).

Pak S, et al. (2025) The expression of the tight junction protein and therapeutical target Claudin 18.2 is heterogeneously distributed within esophageal and gastric adenocarcinoma. *Scientific reports*, 15(1), 28958.

Ross JM, et al. (2025) Sensory Entrained TMS (seTMS) enhances motor cortex plasticity. *bioRxiv : the preprint server for biology*.

Hallinan C, et al. (2025) Impact of Data Quality on Deep Learning Prediction of Spatial Transcriptomics from Histology Images. *bioRxiv : the preprint server for biology*.

Goordeen D, et al. (2025) Diabetes medication management recommendations for older adults: A systematic review of the Western Pacific region. *Geriatrics & gerontology international*, 25(6), 717.

Brooks ER, et al. (2025) A single-cell atlas of spatial and temporal gene expression in the mouse cranial neural plate. *eLife*, 13.

Ross JM, et al. (2025) Sensory Entrained TMS (seTMS) Enhances Motor Cortex Excitability. *Human brain mapping*, 46(10), e70267.

Moreno-González M, et al. (2025) A computational framework to dissect imputation strategies for single-cell histone modification data. *NAR genomics and bioinformatics*, 7(4), lqaf192.

Liu Q, et al. (2025) Chromatin landscape alteration uncovers multiple transcriptional circuits during memory CD8⁺ T-cell differentiation. *Protein & cell*, 16(7), 575.