

Smita Krishnaswamy

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

6,245
citations

361413

20
h-index

345221

36
g-index

68
all docs

68
docs citations

68
times ranked

11621
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | viSNE enables visualization of high dimensional single-cell data and reveals phenotypic heterogeneity of leukemia. <i>Nature Biotechnology</i> , 2013, 31, 545-552. | 17.5 | 1,481 |
| 2 | Recovering Gene Interactions from Single-Cell Data Using Data Diffusion. <i>Cell</i> , 2018, 174, 716-729.e27. | 28.9 | 1,197 |
| 3 | Normalization of mass cytometry data with bead standards. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013, 83A, 483-494. | 1.5 | 655 |
| 4 | Visualizing structure and transitions in high-dimensional biological data. <i>Nature Biotechnology</i> , 2019, 37, 1482-1492. | 17.5 | 597 |
| 5 | Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm. <i>Nature Protocols</i> , 2015, 10, 316-333. | 12.0 | 466 |
| 6 | Exploring single-cell data with deep multitasking neural networks. <i>Nature Methods</i> , 2019, 16, 1139-1145. | 19.0 | 222 |
| 7 | Conditional density-based analysis of T cell signaling in single-cell data. <i>Science</i> , 2014, 346, 1250689. | 12.6 | 188 |
| 8 | PD-1 marks dysfunctional regulatory T cells in malignant gliomas. <i>JCI Insight</i> , 2016, 1, . | 5.0 | 182 |
| 9 | A reservoir of stem-like CD8 ⁺ T cells in the tumor-draining lymph node preserves the ongoing antitumor immune response. <i>Science Immunology</i> , 2021, 6, eabg7836. | 11.9 | 123 |
| 10 | Manifold learning-based methods for analyzing single-cell RNA-sequencing data. <i>Current Opinion in Systems Biology</i> , 2018, 7, 36-46. | 2.6 | 103 |
| 11 | Quantifying the effect of experimental perturbations at single-cell resolution. <i>Nature Biotechnology</i> , 2021, 39, 619-629. | 17.5 | 98 |
| 12 | Endocrine-Exocrine Signaling Drives Obesity-Associated Pancreatic Ductal Adenocarcinoma. <i>Cell</i> , 2020, 181, 832-847.e18. | 28.9 | 77 |
| 13 | Transcriptomic and clonal characterization of T cells in the human central nervous system. <i>Science Immunology</i> , 2020, 5, . | 11.9 | 73 |
| 14 | Structural and developmental principles of neuropil assembly in <i>C. elegans</i> . <i>Nature</i> , 2021, 591, 99-104. | 27.8 | 60 |
| 15 | Macrophage Migration Inhibitory Factor Regulates U1 Small Nuclear RNP Immune Complex-Mediated Activation of the NLRP3 Inflammasome. <i>Arthritis and Rheumatology</i> , 2019, 71, 109-120. | 5.6 | 59 |
| 16 | Single-cell mass cytometry of TCR signaling: Amplification of small initial differences results in low ERK activation in NOD mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16466-16471. | 7.1 | 50 |
| 17 | MLL-AF9 initiates transformation from fast-proliferating myeloid progenitors. <i>Nature Communications</i> , 2019, 10, 5767. | 12.8 | 41 |
| 18 | Uncovering axes of variation among single-cell cancer specimens. <i>Nature Methods</i> , 2020, 17, 302-310. | 19.0 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Multiscale PHATE identifies multimodal signatures of COVID-19. <i>Nature Biotechnology</i> , 2022, 40, 681-691. | 17.5 | 39 |
| 20 | The landscape of pioneer factor activity reveals the mechanisms of chromatin reprogramming and genome activation. <i>Molecular Cell</i> , 2022, 82, 986-1002.e9. | 9.7 | 38 |
| 21 | Mapping Phenotypic Plasticity upon the Cancer Cell State Landscape Using Manifold Learning. <i>Cancer Discovery</i> , 2022, 12, 1847-1859. | 9.4 | 26 |
| 22 | Single cell immune profiling of dengue virus patients reveals intact immune responses to Zika virus with enrichment of innate immune signatures. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008112. | 3.0 | 20 |
| 23 | Multiparameter Single Cell Profiling of Airway Inflammatory Cells. <i>Cytometry Part B - Clinical Cytometry</i> , 2017, 92, 12-20. | 1.5 | 19 |
| 24 | Identification and Analysis of Islet Antigen-Specific CD8+ T Cells with T Cell Libraries. <i>Journal of Immunology</i> , 2018, 201, 1662-1670. | 0.8 | 19 |
| 25 | Learning time-varying information flow from single-cell epithelial to mesenchymal transition data. <i>PLoS ONE</i> , 2018, 13, e0203389. | 2.5 | 18 |
| 26 | Dissecting alterations in human CD8+ T cells with aging by high-dimensional single cell mass cytometry. <i>Clinical Immunology</i> , 2019, 200, 24-30. | 3.2 | 18 |
| 27 | Modeling uniquely human gene regulatory function via targeted humanization of the mouse genome. <i>Nature Communications</i> , 2022, 13, 304. | 12.8 | 16 |
| 28 | Multimodal Data Visualization and Denoising with Integrated Diffusion. , 2021, 2021, . | | 15 |
| 29 | Neural network predicts need for red blood cell transfusion for patients with acute gastrointestinal bleeding admitted to the intensive care unit. <i>Scientific Reports</i> , 2021, 11, 8827. | 3.3 | 11 |
| 30 | Visualizing Structure and Transitions for Biological Data Exploration. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 11 |
| 31 | Recovering Gene Interactions from Single-Cell Data Using Data Diffusion. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 11 |
| 32 | Coarse Graining of Data via Inhomogeneous Diffusion Condensation. , 2019, 2019, 2624-2633. | | 9 |
| 33 | Finding Archetypal Spaces Using Neural Networks. , 2019, , . | | 9 |
| 34 | Harmonic Alignment. , 2020, 2020, 316-324. | | 9 |
| 35 | IL-7 receptor alpha defines heterogeneity and signature of human effector memory CD8+ T cells in high dimensional analysis. <i>Cellular Immunology</i> , 2020, 355, 104155. | 3.0 | 7 |
| 36 | Population Genomics Approaches for Genetic Characterization of SARS-CoV-2 Lineages. <i>Frontiers in Medicine</i> , 2022, 9, 826746. | 2.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | 1-deoxysphingolipids bind to COUP-TF to modulate lymphatic and cardiac cell development. <i>Developmental Cell</i> , 2021, 56, 3128-3145.e15. | 7.0 | 6 |
| 38 | Compressed Diffusion. , 2019, , . | | 5 |
| 39 | Generating hard-to-obtain information from easy-to-obtain information: Applications in drug discovery and clinical inference. <i>Patterns</i> , 2021, 2, 100288. | 5.9 | 5 |
| 40 | Fixing Bias in Reconstruction-based Anomaly Detection with Lipschitz Discriminators. <i>Journal of Signal Processing Systems</i> , 2022, 94, 229-243. | 2.1 | 4 |
| 41 | Voices of biotech research. <i>Nature Biotechnology</i> , 2021, 39, 281-286. | 17.5 | 3 |
| 42 | TrajectoryNet: A Dynamic Optimal Transport Network for Modeling Cellular Dynamics. <i>Proceedings of Machine Learning Research</i> , 2020, 119, 9526-9536. | 0.3 | 3 |
| 43 | Modeling Global Dynamics from Local Snapshots with Deep Generative Neural Networks. , 2019, , . | | 1 |
| 44 | MURAL: An Unsupervised Random Forest-Based Embedding for Electronic Health Record Data. , 2021, , . | | 1 |
| 45 | Learning General Transformations of Data for Out-of-Sample Extensions. , 2020, 2020, . | | 0 |
| 46 | Abstract LT013: Endocrine-exocrine signaling is a driver of obesity-associated pancreatic ductal adenocarcinoma. , 2021, , . | | 0 |