Smita Krishnaswamy

List of Publications by Year
in descending order

46	6,245	361413	345221
papers	citations	20 h-index	36 g-index

68	68	68	11621
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fixing Bias in Reconstruction-based Anomaly Detection with Lipschitz Discriminators. Journal of Signal Processing Systems, 2022, 94, 229-243.	2.1	4
2	Modeling uniquely human gene regulatory function via targeted humanization of the mouse genome. Nature Communications, 2022, 13, 304.	12.8	16
3	Multiscale PHATE identifies multimodal signatures of COVID-19. Nature Biotechnology, 2022, 40, 681-691.	17.5	39
4	Population Genomics Approaches for Genetic Characterization of SARS-CoV-2 Lineages. Frontiers in Medicine, 2022, 9, 826746.	2.6	7
5	The landscape of pioneer factor activity reveals the mechanisms of chromatin reprogramming and genome activation. Molecular Cell, 2022, 82, 986-1002.e9.	9.7	38
6	Mapping Phenotypic Plasticity upon the Cancer Cell State Landscape Using Manifold Learning. Cancer Discovery, 2022, 12, 1847-1859.	9.4	26
7	Structural and developmental principles of neuropil assembly in C. elegans. Nature, 2021, 591, 99-104.	27.8	60
8	Quantifying the effect of experimental perturbations at single-cell resolution. Nature Biotechnology, 2021, 39, 619-629.	17.5	98
9	Abstract LT013: Endocrine-exocrine signaling is a driver of obesity-associated pancreatic ductal adenocarcinoma. , 2021, , .		0
10	Voices of biotech research. Nature Biotechnology, 2021, 39, 281-286.	17.5	3
11	Neural network predicts need for red blood cell transfusion for patients with acute gastrointestinal bleeding admitted to the intensive care unit. Scientific Reports, 2021, 11, 8827.	3.3	11
12	Generating hard-to-obtain information from easy-to-obtain information: Applications in drug discovery and clinical inference. Patterns, 2021, 2, 100288.	5.9	5
13	A reservoir of stem-like CD8 ⁺ T cells in the tumor-draining lymph node preserves the ongoing antitumor immune response. Science Immunology, 2021, 6, eabg7836.	11.9	123
14	Multimodal Data Visualization and Denoising with Integrated Diffusion. , 2021, 2021, .		15
15	1-deoxysphingolipids bind to COUP-TF to modulate lymphatic and cardiac cell development. Developmental Cell, 2021, 56, 3128-3145.e15.	7.0	6
16	MURAL: An Unsupervised Random Forest-Based Embedding for Electronic Health Record Data. , 2021, , .		1
17	Learning General Transformations of Data for Out-of-Sample Extensions. , 2020, 2020, .		0
18	Transcriptomic and clonal characterization of T cells in the human central nervous system. Science Immunology, 2020, 5, .	11.9	73

#	Article	IF	Citations
19	Harmonic Alignment. , 2020, 2020, 316-324.		9
20	Single cell immune profiling of dengue virus patients reveals intact immune responses to Zika virus with enrichment of innate immune signatures. PLoS Neglected Tropical Diseases, 2020, 14, e0008112.	3.0	20
21	IL-7 receptor alpha defines heterogeneity and signature of human effector memory CD8+ T cells in high dimensional analysis. Cellular Immunology, 2020, 355, 104155.	3.0	7
22	Uncovering axes of variation among single-cell cancer specimens. Nature Methods, 2020, 17, 302-310.	19.0	39
23	Endocrine-Exocrine Signaling Drives Obesity-Associated Pancreatic Ductal Adenocarcinoma. Cell, 2020, 181, 832-847.e18.	28.9	77
24	TrajectoryNet: A Dynamic Optimal Transport Network for Modeling Cellular Dynamics. Proceedings of Machine Learning Research, 2020, 119, 9526-9536.	0.3	3
25	Macrophage Migration Inhibitory Factor Regulates U1 Small Nuclear RNP Immune Complexâ€“Mediated Activation of the NLRP3 Inflammasome. Arthritis and Rheumatology, 2019, 71, 109-120.	5.6	59
26	Dissecting alterations in human CD8+ T cells with aging by high-dimensional single cell mass cytometry. Clinical Immunology, 2019, 200, 24-30.	3.2	18
27	Coarse Graining of Data via Inhomogeneous Diffusion Condensation. , 2019, 2019, 2624-2633.		9
28	Compressed Diffusion. , 2019, , .		5
29	Finding Archetypal Spaces Using Neural Networks. , 2019, , .		9
30	MLL-AF9 initiates transformation from fast-proliferating myeloid progenitors. Nature Communications, 2019, 10, 5767.	12.8	41
31	Exploring single-cell data with deep multitasking neural networks. Nature Methods, 2019, 16, 1139-1145.	19.0	222
32	Visualizing structure and transitions in high-dimensional biological data. Nature Biotechnology, 2019, 37, 1482-1492.	17.5	597
33	Modeling Global Dynamics from Local Snapshots with Deep Generative Neural Networks. , 2019, , .		1
34	Manifold learning-based methods for analyzing single-cell RNA-sequencing data. Current Opinion in Systems Biology, 2018, 7, 36-46.	2.6	103
35	Learning time-varying information flow from single-cell epithelial to mesenchymal transition data. PLoS ONE, 2018, 13, e0203389.	2.5	18
36	Recovering Gene Interactions from Single-Cell Data Using Data Diffusion. Cell, 2018, 174, 716-729.e27.	28.9	1,197

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37	Identification and Analysis of Islet Antigenâ€“Specific CD8+ T Cells with T Cell Libraries. Journal of Immunology, 2018, 201, 1662-1670.	0.8	19
38	Multiparameter Single Cell Profiling of Airway Inflammatory Cells. Cytometry Part B - Clinical Cytometry, 2017, 92, 12-20.	1.5	19
39	PD-1 marks dysfunctional regulatory T cells in malignant gliomas. JCI Insight, 2016, 1, .	5.0	182
40	Palladium-based mass tag cell barcoding with a doublet-filtering scheme and single-cell deconvolution algorithm. Nature Protocols, 2015, 10, 316-333.	12.0	466
41	Conditional density-based analysis of T cell signaling in single-cell data. Science, 2014, 346, 1250689.	12.6	188
42	Single-cell mass cytometry of TCR signaling: Amplification of small initial differences results in low ERK activation in NOD mice. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16466-16471.	7.1	50
43	viSNE enables visualization of high dimensional single-cell data and reveals phenotypic heterogeneity of leukemia. Nature Biotechnology, 2013, 31, 545-552.	17.5	1,481
44	Normalization of mass cytometry data with bead standards. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 483-494.	1.5	655
45	Visualizing Structure and Transitions for Biological Data Exploration. SSRN Electronic Journal, 0, , .	0.4	11
46	Recovering Gene Interactions from Single-Cell Data Using Data Diffusion. SSRN Electronic Journal, 0, , .	0.4	11