

Nir Yosef

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

21,295
citations

31976

53
h-index

29157

104
g-index

152
all docs

152
docs citations

152
times ranked

30108
citing authors

#	ARTICLE	IF	CITATIONS
1	Slingshot: cell lineage and pseudotime inference for single-cell transcriptomics. BMC Genomics, 2018, 19, 477.	2.8	1,562
2	The Human Cell Atlas. ELife, 2017, 6, .	6.0	1,547
3	Deep generative modeling for single-cell transcriptomics. Nature Methods, 2018, 15, 1053-1058.	19.0	1,227
4	Sodium chloride drives autoimmune disease by the induction of pathogenic TH17 cells. Nature, 2013, 496, 518-522.	27.8	1,136
5	Single-cell transcriptomics reveals bimodality in expression and splicing in immune cells. Nature, 2013, 498, 236-240.	27.8	1,103
6	Induction and molecular signature of pathogenic TH17 cells. Nature Immunology, 2012, 13, 991-999.	14.5	980
7	Single-cell RNA-seq reveals dynamic paracrine control of cellular variation. Nature, 2014, 510, 363-369.	27.8	872
8	Induction of pathogenic TH17 cells by inducible salt-sensing kinase SGK1. Nature, 2013, 496, 513-517.	27.8	851
9	Densely Interconnected Transcriptional Circuits Control Cell States in Human Hematopoiesis. Cell, 2011, 144, 296-309.	28.9	843
10	The epigenetic landscape of T cell exhaustion. Science, 2016, 354, 1165-1169.	12.6	694
11	Dynamic regulatory network controlling TH17 cell differentiation. Nature, 2013, 496, 461-468.	27.8	608
12	Revealing the vectors of cellular identity with single-cell genomics. Nature Biotechnology, 2016, 34, 1145-1160.	17.5	534
13	Single-Cell Genomics Unveils Critical Regulators of Th17 Cell Pathogenicity. Cell, 2015, 163, 1400-1412.	28.9	504
14	A High-Throughput Chromatin Immunoprecipitation Approach Reveals Principles of Dynamic Gene Regulation in Mammals. Molecular Cell, 2012, 47, 810-822.	9.7	375
15	CD5L/AIM Regulates Lipid Biosynthesis and Restrains Th17 Cell Pathogenicity. Cell, 2015, 163, 1413-1427.	28.9	313
16	Combinatorial Patterning of Chromatin Regulators Uncovered by Genome-wide Location Analysis in Human Cells. Cell, 2011, 147, 1628-1639.	28.9	303
17	The transcription factor BATF operates as an essential differentiation checkpoint in early effector CD8+ T cells. Nature Immunology, 2014, 15, 373-383.	14.5	289
18	The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans. Science, 2022, 376, eabl4896.	12.6	289

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19	Cross-tissue immune cell analysis reveals tissue-specific features in humans. <i>Science</i> , 2022, 376, eabl5197.	12.6	265
20	Molecular recording of mammalian embryogenesis. <i>Nature</i> , 2019, 570, 77-82.	27.8	257
21	Small-Molecule ROR γ t Antagonists Inhibit T Helper 17 Cell Transcriptional Network by Divergent Mechanisms. <i>Immunity</i> , 2014, 40, 477-489.	14.3	253
22	Joint probabilistic modeling of single-cell multi-omic data with totalVI. <i>Nature Methods</i> , 2021, 18, 272-282.	19.0	246
23	Integrated single cell analysis of blood and cerebrospinal fluid leukocytes in multiple sclerosis. <i>Nature Communications</i> , 2020, 11, 247.	12.8	242
24	Mapping single-cell data to reference atlases by transfer learning. <i>Nature Biotechnology</i> , 2022, 40, 121-130.	17.5	236
25	Impulse Control: Temporal Dynamics in Gene Transcription. <i>Cell</i> , 2011, 144, 886-896.	28.9	227
26	A Python library for probabilistic analysis of single-cell omics data. <i>Nature Biotechnology</i> , 2022, 40, 163-166.	17.5	216
27	Probabilistic harmonization and annotation of single-cell transcriptomics data with deep generative models. <i>Molecular Systems Biology</i> , 2021, 17, e9620.	7.2	211
28	Metabolic modeling of single Th17 cells reveals regulators of autoimmunity. <i>Cell</i> , 2021, 184, 4168-4185.e21.	28.9	203
29	MicroRNA-21 promotes Th17 differentiation and mediates experimental autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , 2015, 125, 1069-1080.	8.2	201
30	Medical Sequencing at the Extremes of Human Body Mass. <i>American Journal of Human Genetics</i> , 2007, 80, 779-791.	6.2	199
31	Systematic Discovery of TLR Signaling Components Delineates Viral-Sensing Circuits. <i>Cell</i> , 2011, 147, 853-867.	28.9	177
32	Functional interpretation of single cell similarity maps. <i>Nature Communications</i> , 2019, 10, 4376.	12.8	169
33	Single-cell lineages reveal the rates, routes, and drivers of metastasis in cancer xenografts. <i>Science</i> , 2021, 371, .	12.6	166
34	Deconstructing Olfactory Stem Cell Trajectories at Single-Cell Resolution. <i>Cell Stem Cell</i> , 2017, 20, 817-830.e8.	11.1	164
35	Nanowire-Mediated Delivery Enables Functional Interrogation of Primary Immune Cells: Application to the Analysis of Chronic Lymphocytic Leukemia. <i>Nano Letters</i> , 2012, 12, 6498-6504.	9.1	154
36	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. <i>Cell</i> , 2021, 184, 3915-3935.e21.	28.9	133

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37	Interpretable factor models of single-cell RNA-seq via variational autoencoders. <i>Bioinformatics</i> , 2020, 36, 3418-3421.	4.1	123
38	Polyamine metabolism is a central determinant of helper T cell lineage fidelity. <i>Cell</i> , 2021, 184, 4186-4202.e20.	28.9	121
39	Neurological Manifestations of COVID-19 Feature T Cell Exhaustion and Dedifferentiated Monocytes in Cerebrospinal Fluid. <i>Immunity</i> , 2021, 54, 164-175.e6.	14.3	119
40	Performance Assessment and Selection of Normalization Procedures for Single-Cell RNA-Seq. <i>Cell Systems</i> , 2019, 8, 315-328.e8.	6.2	117
41	Lineage tracing reveals the phylodynamics, plasticity, and paths of tumor evolution. <i>Cell</i> , 2022, 185, 1905-1923.e25.	28.9	108
42	Critical role of IRF1 and BATF in forming chromatin landscape during type 1 regulatory cell differentiation. <i>Nature Immunology</i> , 2017, 18, 412-421.	14.5	103
43	Toward accurate reconstruction of functional protein networks. <i>Molecular Systems Biology</i> , 2009, 5, 248.	7.2	90
44	Simulating multiple faceted variability in single cell RNA sequencing. <i>Nature Communications</i> , 2019, 10, 2611.	12.8	89
45	A genome-wide screen for essential yeast genes that affect telomere length maintenance. <i>Nucleic Acids Research</i> , 2009, 37, 3840-3849.	14.5	83
46	Impulse model-based differential expression analysis of time course sequencing data. <i>Nucleic Acids Research</i> , 2018, 46, e119.	14.5	81
47	ANAT: A Tool for Constructing and Analyzing Functional Protein Networks. <i>Science Signaling</i> , 2011, 4, p1.	3.6	78
48	Systematic identification of gene annotation errors in the widely used yeast mutation collections. <i>Nature Methods</i> , 2012, 9, 373-378.	19.0	78
49	Hotspot identifies informative gene modules across modalities of single-cell genomics. <i>Cell Systems</i> , 2021, 12, 446-456.e9.	6.2	78
50	Targeted reconstruction of T cell receptor sequence from single cell RNA-seq links CDR3 length to T cell differentiation state. <i>Nucleic Acids Research</i> , 2017, 45, e148-e148.	14.5	77
51	Identification and Massively Parallel Characterization of Regulatory Elements Driving Neural Induction. <i>Cell Stem Cell</i> , 2019, 25, 713-727.e10.	11.1	76
52	DestVI identifies continuums of cell types in spatial transcriptomics data. <i>Nature Biotechnology</i> , 2022, 40, 1360-1369.	17.5	75
53	Use antibiotics in cell culture with caution: genome-wide identification of antibiotic-induced changes in gene expression and regulation. <i>Scientific Reports</i> , 2017, 7, 7533.	3.3	67
54	Injury Activates Transient Olfactory Stem Cell States with Diverse Lineage Capacities. <i>Cell Stem Cell</i> , 2017, 21, 775-790.e9.	11.1	67

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55	Combinatorial proteomic analysis of intercellular signaling applied to the CD28 T-cell costimulatory receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1594-603.	7.1	65
56	lentiMPRA and MPRAflow for high-throughput functional characterization of gene regulatory elements. <i>Nature Protocols</i> , 2020, 15, 2387-2412.	12.0	65
57	Inference of single-cell phylogenies from lineage tracing data using Cassiopeia. <i>Genome Biology</i> , 2020, 21, 92.	8.8	61
58	FastProject: a tool for low-dimensional analysis of single-cell RNA-Seq data. <i>BMC Bioinformatics</i> , 2016, 17, 315.	2.6	59
59	Antiviral CD8+ T Cells Restricted by Human Leukocyte Antigen Class II Exist during Natural HIV Infection and Exhibit Clonal Expansion. <i>Immunity</i> , 2016, 45, 917-930.	14.3	59
60	MPRAnalyze: statistical framework for massively parallel reporter assays. <i>Genome Biology</i> , 2019, 20, 183.	8.8	58
61	Oleic acid restores suppressive defects in tissue-resident FOXP3 Tregs from patients with multiple sclerosis. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	56
62	An IL-27-Driven Transcriptional Network Identifies Regulators of IL-10 Expression across T Helper Cell Subsets. <i>Cell Reports</i> , 2020, 33, 108433.	6.4	54
63	CD4+ and CD8+ cytotoxic T lymphocytes may induce mesenchymal cell apoptosis in IgG4-related disease. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 368-382.	2.9	53
64	Oct1 and OCA-B are selectively required for CD4 memory T cell function. <i>Journal of Experimental Medicine</i> , 2015, 212, 2115-2131.	8.5	50
65	Metallothioneins negatively regulate IL-27-induced type 1 regulatory T-cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7802-7807.	7.1	48
66	Protein C receptor (PROCR) is a negative regulator of Th17 pathogenicity. <i>Journal of Experimental Medicine</i> , 2016, 213, 2489-2501.	8.5	48
67	Pluripotency Transcription Factor Oct4 Mediates Stepwise Nucleosome Demethylation and Depletion. <i>Molecular and Cellular Biology</i> , 2015, 35, 1014-1025.	2.3	47
68	Writ large: Genomic dissection of the effect of cellular environment on immune response. <i>Science</i> , 2016, 354, 64-68.	12.6	46
69	Integration of multiple epigenomic marks improves prediction of variant impact in saturation mutagenesis reporter assay. <i>Human Mutation</i> , 2019, 40, 1280-1291.	2.5	46
70	Enhancing scientific discoveries in molecular biology with deep generative models. <i>Molecular Systems Biology</i> , 2020, 16, e9198.	7.2	44
71	Protein Sialylation Regulates a Gene Expression Signature that Promotes Breast Cancer Cell Pathogenicity. <i>ACS Chemical Biology</i> , 2016, 11, 2131-2139.	3.4	43
72	Predicting gene expression in massively parallel reporter assays: A comparative study. <i>Human Mutation</i> , 2017, 38, 1240-1250.	2.5	39

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73	Single-cell transcriptomics of the Drosophila wing disc reveals instructive epithelium-to-myoblast interactions. <i>ELife</i> , 2021, 10, .	6.0	39
74	Characterization of transcript enrichment and detection bias in single-nucleus RNA-seq for mapping of distinct human adipocyte lineages. <i>Genome Research</i> , 2022, 32, 242-257.	5.5	39
75	ImpulseDE: detection of differentially expressed genes in time series data using impulse models. <i>Bioinformatics</i> , 2017, 33, 757-759.	4.1	38
76	A Reproducibility-Based Computational Framework Identifies an Inducible, Enhanced Antiviral State in Dendritic Cells from HIV-1 Elite Controllers. <i>Genome Biology</i> , 2018, 19, 10.	8.8	37
77	Benchmarked approaches for reconstruction of in vitro cell lineages and in silico models of <i>C. elegans</i> and <i>M. musculus</i> developmental trees. <i>Cell Systems</i> , 2021, 12, 810-826.e4.	6.2	36
78	Coverage-dependent bias creates the appearance of binary splicing in single cells. <i>ELife</i> , 2020, 9, .	6.0	35
79	PeakVI: A deep generative model for single-cell chromatin accessibility analysis. <i>Cell Reports Methods</i> , 2022, 2, 100182.	2.9	34
80	Transcriptional Regulation by CHIP/LDB Complexes. <i>PLoS Genetics</i> , 2010, 6, e1001063.	3.5	28
81	Self-guarding of MORC3 enables virulence factor-triggered immunity. <i>Nature</i> , 2021, 600, 138-142.	27.8	27
82	An Integrative Framework Reveals Signaling-to-Transcription Events in Toll-like Receptor Signaling. <i>Cell Reports</i> , 2017, 19, 2853-2866.	6.4	26
83	The yeast exoribonuclease Xrn1 and associated factors modulate RNA polymerase II processivity in 5' and 3' gene regions. <i>Journal of Biological Chemistry</i> , 2020, 295, 11435-11454.	3.4	25
84	Systems-based approaches to study immunometabolism. <i>Cellular and Molecular Immunology</i> , 2022, 19, 409-420.	10.5	25
85	A complex-centric view of protein network evolution. <i>Nucleic Acids Research</i> , 2009, 37, e88-e88.	14.5	24
86	Comparative Analysis of Immune Cells Reveals a Conserved Regulatory Lexicon. <i>Cell Systems</i> , 2018, 6, 381-394.e7.	6.2	19
87	Batf-mediated epigenetic control of effector CD8 ⁺ T cell differentiation. <i>Science Immunology</i> , 2022, 7, eabi4919.	11.9	19
88	Understanding Th17 cells through systematic genomic analyses. <i>Current Opinion in Immunology</i> , 2014, 28, 42-48.	5.5	18
89	T cell self-reactivity during thymic development dictates the timing of positive selection. <i>ELife</i> , 2021, 10, .	6.0	17
90	Ets21C sustains a pro-regenerative transcriptional program in blastema cells of <i>Drosophila</i> imaginal discs. <i>Current Biology</i> , 2022, 32, 3350-3364.e6.	3.9	17

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91	Massively parallel reporter perturbation assays uncover temporal regulatory architecture during neural differentiation. <i>Nature Communications</i> , 2022, 13, 1504.	12.8	16
92	Meta-analysis of massively parallel reporter assays enables prediction of regulatory function across cell types. <i>Human Mutation</i> , 2019, 40, 1299-1313.	2.5	15
93	CXCR3 regulates stem and proliferative CD8+ T cells during chronic infection by promoting interactions with DCs in splenic bridging channels. <i>Cell Reports</i> , 2022, 38, 110266.	6.4	14
94	T Follicular Regulatory Cell-Derived Fibrinogen-like Protein 2 Regulates Production of Autoantibodies and Induction of Systemic Autoimmunity. <i>Journal of Immunology</i> , 2020, 205, 3247-3262.	0.8	13
95	Network-Free Inference of Knockout Effects in Yeast. <i>PLoS Computational Biology</i> , 2010, 6, e1000635.	3.2	11
96	Reconstructing B-cell receptor sequences from short-read single-cell RNA sequencing with BRAPeS. <i>Life Science Alliance</i> , 2019, 2, e201900371.	2.8	9
97	Prediction of Phenotype Information from Genotype Data. <i>Communications in Information and Systems</i> , 2010, 10, 99-114.	0.5	7
98	Mucosal Vaccination with Cyclic Dinucleotide Adjuvants Induces Effective T Cell Homing and IL-17-Dependent Protection against <i>Mycobacterium tuberculosis</i> Infection. <i>Journal of Immunology</i> , 2022, 208, 407-419.	0.8	5
99	Interactive, integrated analysis of single-cell transcriptomic and phylogenetic data with PhyloVision. <i>Cell Reports Methods</i> , 2022, 2, 100200.	2.9	5
100	Mango: Exploratory Data Analysis for Large-Scale Sequencing Datasets. <i>Cell Systems</i> , 2019, 9, 609-613.e3.	6.2	4
101	Connectivity problems on heterogeneous graphs. <i>Algorithms for Molecular Biology</i> , 2019, 14, 5.	1.2	3
102	A new way to build cell lineages. <i>ELife</i> , 2017, 6, .	6.0	2
103	Epitome: predicting epigenetic events in novel cell types with multi-cell deep ensemble learning. <i>Nucleic Acids Research</i> , 2021, 49, e110-e110.	14.5	1
104	Computation Resources for Molecular Biology: Special Issue 2018. <i>Journal of Molecular Biology</i> , 2018, 430, 2181-2183.	4.2	0
105	Evaluation of Davis et al.: Exploring Sequence of Determinants of Transcriptional Regulation The Case of c-AMP Response Element. <i>Cell Systems</i> , 2020, 11, 2-4.	6.2	0