

Itay Tirosh

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

28,388
citations

57631

44
h-index

98622

67
g-index

78
all docs

78
docs citations

78
times ranked

39655
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Parallel Genome-wide Expression Profiling of Individual Cells Using Nanoliter Droplets. <i>Cell</i> , 2015, 161, 1202-1214.	13.5	5,908
2	Single-cell RNA-seq highlights intratumoral heterogeneity in primary glioblastoma. <i>Science</i> , 2014, 344, 1396-1401.	6.0	3,648
3	Dissecting the multicellular ecosystem of metastatic melanoma by single-cell RNA-seq. <i>Science</i> , 2016, 352, 189-196.	6.0	3,421
4	Single-Cell Transcriptomic Analysis of Primary and Metastatic Tumor Ecosystems in Head and Neck Cancer. <i>Cell</i> , 2017, 171, 1611-1624.e24.	13.5	1,656
5	An Integrative Model of Cellular States, Plasticity, and Genetics for Glioblastoma. <i>Cell</i> , 2019, 178, 835-849.e21.	13.5	1,408
6	A single-cell survey of the small intestinal epithelium. <i>Nature</i> , 2017, 551, 333-339.	13.7	1,197
7	Neoantigen vaccine generates intratumoral T cell responses in phase Ib glioblastoma trial. <i>Nature</i> , 2019, 565, 234-239.	13.7	956
8	A Cancer Cell Program Promotes T Cell Exclusion and Resistance to Checkpoint Blockade. <i>Cell</i> , 2018, 175, 984-997.e24.	13.5	892
9	Single-cell RNA-seq supports a developmental hierarchy in human oligodendrogloma. <i>Nature</i> , 2016, 539, 309-313.	13.7	875
10	Reconstructing and Reprogramming the Tumor-Propagating Potential of Glioblastoma Stem-like Cells. <i>Cell</i> , 2014, 157, 580-594.	13.5	751
11	Decoupling genetics, lineages, and microenvironment in IDH-mutant gliomas by single-cell RNA-seq. <i>Science</i> , 2017, 355, .	6.0	743
12	Single-cell RNA-seq reveals changes in cell cycle and differentiation programs upon aging of hematopoietic stem cells. <i>Genome Research</i> , 2015, 25, 1860-1872.	2.4	614
13	Developmental and oncogenic programs in H3K27M gliomas dissected by single-cell RNA-seq. <i>Science</i> , 2018, 360, 331-335.	6.0	461
14	A Yeast Hybrid Provides Insight into the Evolution of Gene Expression Regulation. <i>Science</i> , 2009, 324, 659-662.	6.0	388
15	T Helper Cell Cytokines Modulate Intestinal Stem Cell Renewal and Differentiation. <i>Cell</i> , 2018, 175, 1307-1320.e22.	13.5	388
16	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. <i>Cell</i> , 2015, 162, 675-686.	13.5	383
17	Two strategies for gene regulation by promoter nucleosomes. <i>Genome Research</i> , 2008, 18, 1084-1091.	2.4	351
18	Single-Cell RNA Sequencing in Cancer: Lessons Learned and Emerging Challenges. <i>Molecular Cell</i> , 2019, 75, 7-12.	4.5	319

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19	A single-cell landscape of high-grade serous ovarian cancer. <i>Nature Medicine</i> , 2020, 26, 1271-1279.	15.2	267
20	Challenges and emerging directions in single-cell analysis. <i>Genome Biology</i> , 2017, 18, 84.	3.8	258
21	A genetic signature of interspecies variations in gene expression. <i>Nature Genetics</i> , 2006, 38, 830-834.	9.4	250
22	Interactions between cancer cells and immune cells drive transitions to mesenchymal-like states in glioblastoma. <i>Cancer Cell</i> , 2021, 39, 779-792.e11.	7.7	245
23	Pan-cancer single-cell RNA-seq identifies recurring programs of cellular heterogeneity. <i>Nature Genetics</i> , 2020, 52, 1208-1218.	9.4	226
24	Inhibitory CD161 receptor identified in glioma-infiltrating T cells by single-cell analysis. <i>Cell</i> , 2021, 184, 1281-1298.e26.	13.5	210
25	A Glial Signature and Wnt7 Signaling Regulate Glioma-Vascular Interactions and Tumor Microenvironment. <i>Cancer Cell</i> , 2018, 33, 874-889.e7.	7.7	180
26	High-throughput Phenotyping of Lung Cancer Somatic Mutations. <i>Cancer Cell</i> , 2016, 30, 214-228.	7.7	171
27	The Glioma Stem Cell Model in the Era of Single-Cell Genomics. <i>Cancer Cell</i> , 2020, 37, 630-636.	7.7	153
28	IFN γ -Dependent Tissue-Immune Homeostasis Is Co-opted in the Tumor Microenvironment. <i>Cell</i> , 2017, 170, 127-141.e15.	13.5	140
29	Expression Noise and Acetylation Profiles Distinguish HDAC Functions. <i>Molecular Cell</i> , 2012, 47, 193-202.	4.5	112
30	Multiplexed single-cell transcriptional response profiling to define cancer vulnerabilities and therapeutic mechanism of action. <i>Nature Communications</i> , 2020, 11, 4296.	5.8	98
31	Promoter architecture and the evolvability of gene expression. <i>Journal of Biology</i> , 2009, 8, 95.	2.7	96
32	Divergence of nucleosome positioning between two closely related yeast species: genetic basis and functional consequences. <i>Molecular Systems Biology</i> , 2010, 6, 365.	3.2	96
33	Coupled Evolution of Transcription and mRNA Degradation. <i>PLoS Biology</i> , 2011, 9, e1001106.	2.6	86
34	Comparative analysis indicates regulatory neofunctionalization of yeast duplicates. <i>Genome Biology</i> , 2007, 8, R50.	13.9	83
35	Combined Analysis of Antigen Presentation and T-cell Recognition Reveals Restricted Immune Responses in Melanoma. <i>Cancer Discovery</i> , 2018, 8, 1366-1375.	7.7	80
36	Evolution of gene sequence and gene expression are not correlated in yeast. <i>Trends in Genetics</i> , 2008, 24, 109-113.	2.9	74

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37	On the relation between promoter divergence and gene expression evolution. <i>Molecular Systems Biology</i> , 2008, 4, 159.	3.2	70
38	miR-142 orchestrates a network of actin cytoskeleton regulators during megakaryopoiesis. <i>ELife</i> , 2014, 3, e01964.	2.8	67
39	Single-cell sequencing and its applications in head and neck cancer. <i>Oral Oncology</i> , 2019, 99, 104441.	0.8	65
40	The pattern and evolution of yeast promoter bendability. <i>Trends in Genetics</i> , 2007, 23, 318-321.	2.9	62
41	Single cell RNA-seq highlights a role for a partial EMT in head and neck cancer. <i>Molecular and Cellular Oncology</i> , 2018, 5, e1448244.	0.3	61
42	Widespread remodeling of mid-coding sequence nucleosomes by Isw1. <i>Genome Biology</i> , 2010, 11, R49.	13.9	58
43	Chromatin regulators as capacitors of interspecies variations in gene expression. <i>Molecular Systems Biology</i> , 2010, 6, 435.	3.2	56
44	Dissecting human gliomas by single-cell RNA sequencing. <i>Neuro-Oncology</i> , 2018, 20, 37-43.	0.6	56
45	Genome-wide CRISPR screen identifies PRC2 and KMT2D-COMPASS as regulators of distinct EMT trajectories that contribute differentially to metastasis. <i>Nature Cell Biology</i> , 2022, 24, 554-564.	4.6	53
46	Glioblastoma cell populations with distinct oncogenic programs release podoplanin as procoagulant extracellular vesicles. <i>Blood Advances</i> , 2021, 5, 1682-1694.	2.5	46
47	Comparative biology: beyond sequence analysis. <i>Current Opinion in Biotechnology</i> , 2007, 18, 371-377.	3.3	45
48	Immunohistochemical quantification of partial-EMT in oral cavity squamous cell carcinoma primary tumors is associated with nodal metastasis. <i>Oral Oncology</i> , 2019, 99, 104458.	0.8	43
49	Decoupling epithelial-mesenchymal transitions from stromal profiles by integrative expression analysis. <i>Nature Communications</i> , 2021, 12, 2592.	5.8	42
50	Inferring regulatory mechanisms from patterns of evolutionary divergence. <i>Molecular Systems Biology</i> , 2011, 7, 530.	3.2	40
51	Widespread promoter-mediated coordination of transcription and mRNA degradation. <i>Genome Biology</i> , 2012, 13, R114.	13.9	39
52	Decoding Cancer Biology One Cell at a Time. <i>Cancer Discovery</i> , 2021, 11, 960-970.	7.7	37
53	Extensive divergence of yeast stress responses through transitions between induced and constitutive activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16693-16698.	3.3	36
54	Deciphering Human Tumor Biology by Single-Cell Expression Profiling. <i>Annual Review of Cancer Biology</i> , 2019, 3, 151-166.	2.3	33

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55	Tackling the Many Facets of Glioblastoma Heterogeneity. <i>Cell Stem Cell</i> , 2020, 26, 303-304.	5.2	29
56	Computational verification of protein-protein interactions by orthologous co-expression. <i>BMC Bioinformatics</i> , 2005, 6, 40.	1.2	28
57	Evolution of Nucleosome Occupancy: Conservation of Global Properties and Divergence of Gene-Specific Patterns. <i>Molecular and Cellular Biology</i> , 2011, 31, 4348-4355.	1.1	28
58	Malignant cell-specific CXCL14 promotes tumor lymphocyte infiltration in oral cavity squamous cell carcinoma. , 2020, 8, e001048.		27
59	Single-Cell Deconvolution of Head and Neck Squamous Cell Carcinoma. <i>Cancers</i> , 2021, 13, 1230.	1.7	26
60	Autocorrelation analysis reveals widespread spatial biases in microarray experiments. <i>BMC Genomics</i> , 2007, 8, 164.	1.2	23
61	An activation to memory differentiation trajectory of tumor-infiltrating lymphocytes informs metastatic melanoma outcomes. <i>Cancer Cell</i> , 2022, 40, 524-544.e5.	7.7	23
62	A unique subset of glycolytic tumour-propagating cells drives squamous cell carcinoma. <i>Nature Metabolism</i> , 2021, 3, 182-195.	5.1	17
63	Promoter Nucleosome Organization Shapes the Evolution of Gene Expression. <i>PLoS Genetics</i> , 2012, 8, e1002579.	1.5	14
64	Chromatin Mediation of a Transcriptional Memory Effect in Yeast. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 829-838.	0.8	11
65	Tumour inflammation signature and expression of S100A12 and HLA class I improve survival in HPV-negative hypopharyngeal cancer. <i>Scientific Reports</i> , 2021, 11, 1782.	1.6	11
66	Computational Analysis of Nucleosome Positioning. <i>Methods in Molecular Biology</i> , 2012, 833, 443-449.	0.4	9
67	Transcriptional priming of cytoplasmic post-transcriptional regulation. <i>Transcription</i> , 2011, 2, 258-262.	1.7	5
68	Nasopharyngeal carcinoma joins the single-cell party. <i>Cancer Communications</i> , 2020, 40, 453-455.	3.7	3
69	OTME-7. Cancer - immune cell interactions drive transitions to mesenchymal-like state in glioblastoma. <i>Neuro-Oncology Advances</i> , 2021, 3, ii14-ii15.	0.4	0
70	Stochastic transitions as a major source of cancer heterogeneity. <i>Nature Reviews Genetics</i> , 0, , .	7.7	0