Shalev Itzkovitz

List of Publications by Year
in descending order

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91	19,485	34105	46799
papers	citations	52 h-index	89 g-index

107	107	107	30353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Unique Microglia Type Associated with Restricting Development of Alzheimerâ€™s Disease. Cell, 2017, 169, 1276-1290.e17.	28.9	3,282
2	Superfamilies of Evolved and Designed Networks. Science, 2004, 303, 1538-1542.	12.6	1,182
3	Functional atlas of the integrin adhesome. Nature Cell Biology, 2007, 9, 858-867.	10.3	1,033
4	Personalized Gut Mucosal Colonization Resistance to Empiric Probiotics Is Associated with Unique Host and Microbiome Features. Cell, 2018, 174, 1388-1405.e21.	28.9	1,015
5	Microglia development follows a stepwise program to regulate brain homeostasis. Science, 2016, 353, aad8670.	12.6	911
6	Slug and Sox9 Cooperatively Determine the Mammary Stem Cell State. Cell, 2012, 148, 1015-1028.	28.9	830
7	Single-cell spatial reconstruction reveals global division of labour in the mammalian liver. Nature, 2017, 542, 352-356.	27.8	809
8	Post-Antibiotic Gut Mucosal Microbiome Reconstitution Is Impaired by Probiotics and Improved by Autologous FMT. Cell, 2018, 174, 1406-1423.e16.	28.9	752
9	A comprehensive library of fluorescent transcriptional reporters for Escherichia coli. Nature Methods, 2006, 3, 623-628.	19.0	680
10	The Lgr5 intestinal stem cell signature: robust expression of proposed quiescent â€˜+4â€™ cell markers. EMBO Journal, 2012, 31, 3079-3091.	7.8	634
11	Network motifs in integrated cellular networks of transcription-regulation and protein-protein interaction. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5934-5939.	7.1	479
12	The Spectrum and Regulatory Landscape of Intestinal Innate Lymphoid Cells Are Shaped by the Microbiome. Cell, 2016, 166, 1231-1246.e13.	28.9	465
13	Subepithelial telocytes are an important source of Wnts that supports intestinal crypts. Nature, 2018, 557, 242-246.	27.8	394
14	Lung Single-Cell Signaling Interaction Map Reveals Basophil Role in Macrophage Imprinting. Cell, 2018, 175, 1031-1044.e18.	28.9	332
15	Single-molecule transcript counting of stem-cell markers in the mouse intestine. Nature Cell Biology, 2012, 14, 106-114.	10.3	305
16	Spatial Reconstruction of Single Enterocytes Uncovers Broad Zonation along the Intestinal Villus Axis. Cell, 2018, 175, 1156-1167.e15.	28.9	282
17	Spatial heterogeneity in the mammalian liver. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 395-410.	17.8	282
18	Diversion of aspartate in ASS1-deficient tumours fosters de novo pyrimidine synthesis. Nature, 2015, 527, 379-383.	27.8	271

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19	Paired-cell sequencing enables spatial gene expression mapping of liver endothelial cells. Nature Biotechnology, 2018, 36, 962-970.	17.5	262
20	Inference of Tumor Evolution during Chemotherapy by Computational Modeling and In Situ Analysis of Genetic and Phenotypic Cellular Diversity. Cell Reports, 2014, 6, 514-527.	6.4	239
21	Bursty Gene Expression in the Intact Mammalian Liver. Molecular Cell, 2015, 58, 147-156.	9.7	238
22	Single-cell mapping of the thymic stroma identifies IL-25-producing tuft epithelial cells. Nature, 2018, 559, 622-626.	27.8	235
23	Nuclear Retention of mRNA in Mammalian Tissues. Cell Reports, 2015, 13, 2653-2662.	6.4	233
24	A Critical Role for the Wnt Effector Tcf4 in Adult Intestinal Homeostatic Self-Renewal. Molecular and Cellular Biology, 2012, 32, 1918-1927.	2.3	216
25	The genetic code is nearly optimal for allowing additional information within protein-coding sequences. Genome Research, 2007, 17, 405-412.	5.5	200
26	Validating transcripts with probes and imaging technology. Nature Methods, 2011, 8, S12-S19.	19.0	199
27	A conserved abundant cytoplasmic long noncoding RNA modulates repression by Pumilio proteins in human cells. Nature Communications, 2016, 7, 12209.	12.8	192
28	Single-molecule mRNA detection and counting in mammalian tissue. Nature Protocols, 2013, 8, 1743-1758.	12.0	187
29	Single cell dissection of plasma cell heterogeneity in symptomatic and asymptomatic myeloma. Nature Medicine, 2018, 24, 1867-1876.	30.7	179
30	Genetic and Phenotypic Diversity in Breast Tumor Metastases. Cancer Research, 2014, 74, 1338-1348.	0.9	161
31	Optimality in the Development of Intestinal Crypts. Cell, 2012, 148, 608-619.	28.9	142
32	Global mRNA polarization regulates translation efficiency in the intestinal epithelium. Science, 2017, 357, 1299-1303.	12.6	140
33	Spatial sorting enables comprehensive characterization of liver zonation. Nature Metabolism, 2019, 1, 899-911.	11.9	125
34	Spatial transcriptomics: paving the way for tissue-level systems biology. Current Opinion in Biotechnology, 2017, 46, 126-133.	6.6	118
35	Lgr5+Âtelocytes are a signaling source at the intestinal villus tip. Nature Communications, 2020, 11, 1936.	12.8	105
36	Diet Diurnally Regulates Small Intestinal Microbiome-Epithelial-Immune Homeostasis and Enteritis. Cell, 2020, 182, 1441-1459.e21.	28.9	101

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37	A single cell atlas of the human liver tumor microenvironment. Molecular Systems Biology, 2020, 16, e9682.	7.2	99
38	Lactate released by inflammatory bone marrow neutrophils induces their mobilization via endothelial GPR81 signaling. Nature Communications, 2020, 11, 3547.	12.8	93
39	Coarse-graining and self-dissimilarity of complex networks. Physical Review E, 2005, 71, 016127.	2.1	92
40	A systematic view on influenza induced host shutoff. ELife, 2016, 5, .	6.0	92
41	Invariant Distribution of Promoter Activities in Escherichia coli. PLoS Computational Biology, 2009, 5, e1000545.	3.2	87
42	Space-time logic of liver gene expression at sub-lobular scale. Nature Metabolism, 2021, 3, 43-58.	11.9	85
43	Coding limits on the number of transcription factors. BMC Genomics, 2006, 7, 239.	2.8	78
44	Phospho-regulation of ATOH1 Is Required for Plasticity of Secretory Progenitors and Tissue Regeneration. Cell Stem Cell, 2018, 23, 436-443.e7.	11.1	74
45	Transcriptional Heterogeneity of Beta Cells in the Intact Pancreas. Developmental Cell, 2019, 48, 115-125.e4.	7.0	70
46	A versatile genome-scale PCR-based pipeline for high-definition DNA FISH. Nature Methods, 2013, 10, 122-124.	19.0	66
47	The Genetic Program of Pancreatic Î²-Cell Replication In Vivo. Diabetes, 2016, 65, 2081-2093.	0.6	66
48	Overlapping codes within protein-coding sequences. Genome Research, 2010, 20, 1582-1589.	5.5	65
49	Subgraphs and network motifs in geometric networks. Physical Review E, 2005, 71, 026117.	2.1	63
50	Cell Lineage Analysis of a Mouse Tumor. Cancer Research, 2008, 68, 5924-5931.	0.9	63
51	Interleukin-6 produced by enteric neurons regulates the number and phenotype of microbe-responsive regulatory TÂcells in the gut. Immunity, 2021, 54, 499-513.e5.	14.3	63
52	Cell Lineage Analysis of the Mammalian Female Germline. PLoS Genetics, 2012, 8, e1002477.	3.5	60
53	The spatiotemporal program of zonal liver regeneration following acute injury. Cell Stem Cell, 2022, 29, 973-989.e10.	11.1	60
54	Dynamic zonation of liver polyploidy. Cell and Tissue Research, 2017, 368, 405-410.	2.9	59

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55	A spatial vascular transcriptomic, proteomic, and phosphoproteomic atlas unveils an angiocrine Tieâ€“Wnt signaling axis in the liver. Developmental Cell, 2021, 56, 1677-1693.e10.	7.0	58
56	Multiparametric analysis of focal adhesion formation by RNAi-mediated gene knockdown. Journal of Cell Biology, 2009, 186, 423-436.	5.2	56
57	A Universal Mechanism Ties Genotype to Phenotype in Trinucleotide Diseases. PLoS Computational Biology, 2007, 3, e235.	3.2	52
58	Colon Stem Cell and Crypt Dynamics Exposed by Cell Lineage Reconstruction. PLoS Genetics, 2011, 7, e1002192.	3.5	52
59	Single molecule approaches for quantifying transcription and degradation rates in intact mammalian tissues. Methods, 2016, 98, 134-142.	3.8	52
60	Response to Comment on "Network Motifs: Simple Building Blocks of Complex Networks" and "Superfamilies of Evolved and Designed Networks". Science, 2004, 305, 1107d-1107d.	12.6	45
61	Clump sequencing exposes the spatial expression programs of intestinal secretory cells. Nature Communications, 2021, 12, 3074.	12.8	43
62	Reconstruction of Cell Lineage Trees in Mice. PLoS ONE, 2008, 3, e1939.	2.5	43
63	Single-Cell Analysis of Diverse Pathogen Responses Defines a Molecular Roadmap for Generating Antigen-Specific Immunity. Cell Systems, 2019, 8, 109-121.e6.	6.2	39
64	Liver zonation. Journal of Hepatology, 2021, 74, 466-468.	3.7	38
65	The Druze: A Population Genetic Refugium of the Near East. PLoS ONE, 2008, 3, e2105.	2.5	38
66	Telomere elongation followed by telomere length reduction, in leukocytes from divers exposed to intense oxidative stress â€“ Implications for tissue and organismal aging. Mechanisms of Ageing and Development, 2011, 132, 123-130.	4.6	36
67	Bi-fated tendon-to-bone attachment cells are regulated by shared enhancers and KLF transcription factors. ELife, 2021, 10, .	6.0	36
68	Estimating Cell Depth from Somatic Mutations. PLoS Computational Biology, 2008, 4, e1000058.	3.2	35
69	Using Expression Profiles of Caenorhabditis elegans Neurons To Identify Genes That Mediate Synaptic Connectivity. PLoS Computational Biology, 2008, 4, e1000120.	3.2	32
70	Early commitment and robust differentiation in colonic crypts. Molecular Systems Biology, 2017, 13, 902.	7.2	30
71	Aging, clonal hematopoiesis and preleukemia: not just bad luck?. International Journal of Hematology, 2015, 102, 513-522.	1.6	27
72	Spatial discordances between mRNAs and proteins in the intestinal epithelium. Nature Metabolism, 2021, 3, 1680-1693.	11.9	25

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73	Insulin is expressed by enteroendocrine cells during human fetal development. Nature Medicine, 2021, 27, 2104-2107.	30.7	22
74	Genome-wide detection of DNA double-strand breaks by in-suspension BLISS. Nature Protocols, 2020, 15, 3894-3941.	12.0	19
75	Zonation of Pancreatic Acinar Cells in Diabetic Mice. Cell Reports, 2020, 32, 108043.	6.4	16
76	Casein kinase 1â€epsilon or 1â€delta required for Wntâ€mediated intestinal stem cell maintenance. EMBO Journal, 2017, 36, 3046-3061.	7.8	15
77	Pax6 regulation of Sox9 in the retinal pigmented epithelium controls its timely differentiation and choroid vasculature development. Development (Cambridge), 2018, 145, .	2.5	15
78	Geometric constraints on neuronal connectivity facilitate a concise synaptic adhesive code. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9278-9283.	7.1	11
79	Design principles of the paradoxical feedback between pancreatic alpha and beta cells. Scientific Reports, 2018, 8, 10694.	3.3	11
80	Protocol for Single-Molecule Fluorescence In Situ Hybridization for Intact Pancreatic Tissue. STAR Protocols, 2020, 1, 100007.	1.2	10
81	Functional Consequences of Necdin Nucleocytoplasmic Localization. PLoS ONE, 2012, 7, e33786.	2.5	10
82	Muscle-Bound Primordial Stem Cells Give Rise to Myofiber-Associated Myogenic and Non-Myogenic Progenitors. PLoS ONE, 2011, 6, e25605.	2.5	9
83	Bursting through the cell cycle. ELife, 2016, 5, e14953.	6.0	6
84	Host transcriptome signatures in human faecal-washes predict histological remission in patients with IBD. Gut, 2022, 71, 1988-1997.	12.1	6
85	Population mixture model for nonlinear telomere dynamics. Physical Review E, 2008, 78, 060902.	2.1	5
86	Single molecule approaches for studying gene regulation in metabolic tissues. Diabetes, Obesity and Metabolism, 2018, 20, 145-156.	4.4	4
87	Spatial gene expression maps of the intestinal lymphoid follicle and associated epithelium identify zonated expression programs. PLoS Biology, 2021, 19, e3001214.	5.6	4
88	Single cell biologyâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 74-97.	3.8	3
89	A universal mechanism ties genotype to phenotype in trinucleotide diseases. PLoS Computational Biology, 2005, preprint, e235.	3.2	0
90	Acute Inflammation Induces Lactate Release By Bone Marrow Neutrophils That Promotes Their Mobilization Via Endothelial GPR81 Signaling. Blood, 2019, 134, 3582-3582.	1.4	0

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91	Physically interacting beta-delta pairs in the regenerating pancreas revealed by single-cell sequencing. Molecular Metabolism, 2022, 60, 101467.	6.5	0