

# Shalev Itzkovitz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7508831/publications.pdf>

Version: 2024-02-01

91  
papers

19,485  
citations

34105

52  
h-index

46799

89  
g-index

107  
all docs

107  
docs citations

107  
times ranked

30353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Host transcriptome signatures in human faecal-washes predict histological remission in patients with IBD. <i>Gut</i> , 2022, 71, 1988-1997.	12.1	6
2	Physically interacting beta-delta pairs in the regenerating pancreas revealed by single-cell sequencing. <i>Molecular Metabolism</i> , 2022, 60, 101467.	6.5	0
3	The spatiotemporal program of zonal liver regeneration following acute injury. <i>Cell Stem Cell</i> , 2022, 29, 973-989.e10.	11.1	60
4	Liver zonation. <i>Journal of Hepatology</i> , 2021, 74, 466-468.	3.7	38
5	Space-time logic of liver gene expression at sub-lobular scale. <i>Nature Metabolism</i> , 2021, 3, 43-58.	11.9	85
6	Interleukin-6 produced by enteric neurons regulates the number and phenotype of microbe-responsive regulatory T cells in the gut. <i>Immunity</i> , 2021, 54, 499-513.e5.	14.3	63
7	Clump sequencing exposes the spatial expression programs of intestinal secretory cells. <i>Nature Communications</i> , 2021, 12, 3074.	12.8	43
8	A spatial vascular transcriptomic, proteomic, and phosphoproteomic atlas unveils an angiocrine TGF- $\beta$ signaling axis in the liver. <i>Developmental Cell</i> , 2021, 56, 1677-1693.e10.	7.0	58
9	Bi-fated tendon-to-bone attachment cells are regulated by shared enhancers and KLF transcription factors. <i>eLife</i> , 2021, 10, .	6.0	36
10	Single cell biology – a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 74-97.	3.8	3
11	Spatial gene expression maps of the intestinal lymphoid follicle and associated epithelium identify zoned expression programs. <i>PLoS Biology</i> , 2021, 19, e3001214.	5.6	4
12	Spatial discordances between mRNAs and proteins in the intestinal epithelium. <i>Nature Metabolism</i> , 2021, 3, 1680-1693.	11.9	25
13	Insulin is expressed by enteroendocrine cells during human fetal development. <i>Nature Medicine</i> , 2021, 27, 2104-2107.	30.7	22
14	Zonation of Pancreatic Acinar Cells in Diabetic Mice. <i>Cell Reports</i> , 2020, 32, 108043.	6.4	16
15	Lactate released by inflammatory bone marrow neutrophils induces their mobilization via endothelial GPR81 signaling. <i>Nature Communications</i> , 2020, 11, 3547.	12.8	93
16	Diet Diurnally Regulates Small Intestinal Microbiome-Epithelial-Immune Homeostasis and Enteritis. <i>Cell</i> , 2020, 182, 1441-1459.e21.	28.9	101
17	Genome-wide detection of DNA double-strand breaks by in-suspension BLISS. <i>Nature Protocols</i> , 2020, 15, 3894-3941.	12.0	19
18	Protocol for Single-Molecule Fluorescence In Situ Hybridization for Intact Pancreatic Tissue. <i>STAR Protocols</i> , 2020, 1, 100007.	1.2	10

#	ARTICLE	IF	CITATIONS
19	Lgr5+Âtelocytes are a signaling source at the intestinal villus tip. Nature Communications, 2020, 11, 1936.	12.8	105
20	A single cell atlas of the human liver tumor microenvironment. Molecular Systems Biology, 2020, 16, e9682.	7.2	99
21	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
22	Spatial heterogeneity in the mammalian liver. Nature Reviews Gastroenterology and Hepatology, 2019, 16, 395-410.	17.8	282
23	Spatial sorting enables comprehensive characterization of liver zonation. Nature Metabolism, 2019, 1, 899-911.	11.9	125
24	Transcriptional Heterogeneity of Beta Cells in the Intact Pancreas. Developmental Cell, 2019, 48, 115-125.e4.	7.0	70
25	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
26	Subepithelial telocytes are an important source of Wnts that supports intestinal crypts. Nature, 2018, 557, 242-246.	27.8	394
27	Single cell dissection of plasma cell heterogeneity in symptomatic and asymptomatic myeloma. Nature Medicine, 2018, 24, 1867-1876.	30.7	179
28	Spatial Reconstruction of Single Enterocytes Uncovers Broad Zonation along the Intestinal Villus Axis. Cell, 2018, 175, 1156-1167.e15.	28.9	282
29	Lung Single-Cell Signaling Interaction Map Reveals Basophil Role in Macrophage Imprinting. Cell, 2018, 175, 1031-1044.e18.	28.9	332
30	Paired-cell sequencing enables spatial gene expression mapping of liver endothelial cells. Nature Biotechnology, 2018, 36, 962-970.	17.5	262
31	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
32	Post-Antibiotic Gut Mucosal Microbiome Reconstitution Is Impaired by Probiotics and Improved by Autologous FMT. Cell, 2018, 174, 1406-1423.e16.	28.9	752
33	Single molecule approaches for studying gene regulation in metabolic tissues. Diabetes, Obesity and Metabolism, 2018, 20, 145-156.	4.4	4
34	Single-cell mapping of the thymic stroma identifies IL-25-producing tuft epithelial cells. Nature, 2018, 559, 622-626.	27.8	235
35	Design principles of the paradoxical feedback between pancreatic alpha and beta cells. Scientific Reports, 2018, 8, 10694.	3.3	11
36	Pax6 regulation of <i>Sox9</i> in the retinal pigmented epithelium controls its timely differentiation and choroid vasculature development. Development (Cambridge), 2018, 145, .	2.5	15

#	ARTICLE	IF	CITATIONS
37	Phospho-regulation of ATOH1 Is Required for Plasticity of Secretory Progenitors and Tissue Regeneration. <i>Cell Stem Cell</i> , 2018, 23, 436-443.e7.	11.1	74
38	Dynamic zonation of liver polyploidy. <i>Cell and Tissue Research</i> , 2017, 368, 405-410.	2.9	59
39	Early commitment and robust differentiation in colonic crypts. <i>Molecular Systems Biology</i> , 2017, 13, 902.	7.2	30
40	Single-cell spatial reconstruction reveals global division of labour in the mammalian liver. <i>Nature</i> , 2017, 542, 352-356.	27.8	809
41	A Unique Microglia Type Associated with Restricting Development of Alzheimer's Disease. <i>Cell</i> , 2017, 169, 1276-1290.e17.	28.9	3,282
42	Spatial transcriptomics: paving the way for tissue-level systems biology. <i>Current Opinion in Biotechnology</i> , 2017, 46, 126-133.	6.6	118
43	Casein kinase 1 $\epsilon$ or 1 $\delta$ required for Wnt-mediated intestinal stem cell maintenance. <i>EMBO Journal</i> , 2017, 36, 3046-3061.	7.8	15
44	Global mRNA polarization regulates translation efficiency in the intestinal epithelium. <i>Science</i> , 2017, 357, 1299-1303.	12.6	140
45	The Spectrum and Regulatory Landscape of Intestinal Innate Lymphoid Cells Are Shaped by the Microbiome. <i>Cell</i> , 2016, 166, 1231-1246.e13.	28.9	465
46	Microglia development follows a stepwise program to regulate brain homeostasis. <i>Science</i> , 2016, 353, aad8670.	12.6	911
47	Single molecule approaches for quantifying transcription and degradation rates in intact mammalian tissues. <i>Methods</i> , 2016, 98, 134-142.	3.8	52
48	The Genetic Program of Pancreatic $\beta$ -Cell Replication In Vivo. <i>Diabetes</i> , 2016, 65, 2081-2093.	0.6	66
49	A conserved abundant cytoplasmic long noncoding RNA modulates repression by Pumilio proteins in human cells. <i>Nature Communications</i> , 2016, 7, 12209.	12.8	192
50	Bursting through the cell cycle. <i>ELife</i> , 2016, 5, e14953.	6.0	6
51	A systematic view on influenza induced host shutoff. <i>ELife</i> , 2016, 5, .	6.0	92
52	Bursty Gene Expression in the Intact Mammalian Liver. <i>Molecular Cell</i> , 2015, 58, 147-156.	9.7	238
53	Ageing, clonal hematopoiesis and preleukemia: not just bad luck?. <i>International Journal of Hematology</i> , 2015, 102, 513-522.	1.6	27
54	Nuclear Retention of mRNA in Mammalian Tissues. <i>Cell Reports</i> , 2015, 13, 2653-2662.	6.4	233

#	ARTICLE	IF	CITATIONS
55	Diversion of aspartate in ASS1-deficient tumours fosters de novo pyrimidine synthesis. <i>Nature</i> , 2015, 527, 379-383.	27.8	271
56	Inference of Tumor Evolution during Chemotherapy by Computational Modeling and In Situ Analysis of Genetic and Phenotypic Cellular Diversity. <i>Cell Reports</i> , 2014, 6, 514-527.	6.4	239
57	Genetic and Phenotypic Diversity in Breast Tumor Metastases. <i>Cancer Research</i> , 2014, 74, 1338-1348.	0.9	161
58	Single-molecule mRNA detection and counting in mammalian tissue. <i>Nature Protocols</i> , 2013, 8, 1743-1758.	12.0	187
59	A versatile genome-scale PCR-based pipeline for high-definition DNA FISH. <i>Nature Methods</i> , 2013, 10, 122-124.	19.0	66
60	Cell Lineage Analysis of the Mammalian Female Germline. <i>PLoS Genetics</i> , 2012, 8, e1002477.	3.5	60
61	A Critical Role for the Wnt Effector Tcf4 in Adult Intestinal Homeostatic Self-Renewal. <i>Molecular and Cellular Biology</i> , 2012, 32, 1918-1927.	2.3	216
62	The Lgr5 intestinal stem cell signature: robust expression of proposed quiescent $\alpha^4\beta^2$ cell markers. <i>EMBO Journal</i> , 2012, 31, 3079-3091.	7.8	634
63	Single-molecule transcript counting of stem-cell markers in the mouse intestine. <i>Nature Cell Biology</i> , 2012, 14, 106-114.	10.3	305
64	Optimality in the Development of Intestinal Crypts. <i>Cell</i> , 2012, 148, 608-619.	28.9	142
65	Slug and Sox9 Cooperatively Determine the Mammary Stem Cell State. <i>Cell</i> , 2012, 148, 1015-1028.	28.9	830
66	Functional Consequences of Necdin Nucleocytoplasmic Localization. <i>PLoS ONE</i> , 2012, 7, e33786.	2.5	10
67	Muscle-Bound Primordial Stem Cells Give Rise to Myofiber-Associated Myogenic and Non-Myogenic Progenitors. <i>PLoS ONE</i> , 2011, 6, e25605.	2.5	9
68	Validating transcripts with probes and imaging technology. <i>Nature Methods</i> , 2011, 8, S12-S19.	19.0	199
69	Telomere elongation followed by telomere length reduction, in leukocytes from divers exposed to intense oxidative stress – Implications for tissue and organismal aging. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 123-130.	4.6	36
70	Colon Stem Cell and Crypt Dynamics Exposed by Cell Lineage Reconstruction. <i>PLoS Genetics</i> , 2011, 7, e1002192.	3.5	52
71	Overlapping codes within protein-coding sequences. <i>Genome Research</i> , 2010, 20, 1582-1589.	5.5	65
72	Multiparametric analysis of focal adhesion formation by RNAi-mediated gene knockdown. <i>Journal of Cell Biology</i> , 2009, 186, 423-436.	5.2	56

#	ARTICLE	IF	CITATIONS
73	Invariant Distribution of Promoter Activities in Escherichia coli. PLoS Computational Biology, 2009, 5, e1000545.	3.2	87
74	Estimating Cell Depth from Somatic Mutations. PLoS Computational Biology, 2008, 4, e1000058.	3.2	35
75	Using Expression Profiles of Caenorhabditis elegans Neurons To Identify Genes That Mediate Synaptic Connectivity. PLoS Computational Biology, 2008, 4, e1000120.	3.2	32
76	Cell Lineage Analysis of a Mouse Tumor. Cancer Research, 2008, 68, 5924-5931.	0.9	63
77	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
78	Population mixture model for nonlinear telomere dynamics. Physical Review E, 2008, 78, 060902.	2.1	5
79	Reconstruction of Cell Lineage Trees in Mice. PLoS ONE, 2008, 3, e1939.	2.5	43
80	The Druze: A Population Genetic Refugium of the Near East. PLoS ONE, 2008, 3, e2105.	2.5	38
81	A Universal Mechanism Ties Genotype to Phenotype in Trinucleotide Diseases. PLoS Computational Biology, 2007, 3, e235.	3.2	52
82	The genetic code is nearly optimal for allowing additional information within protein-coding sequences. Genome Research, 2007, 17, 405-412.	5.5	200
83	Functional atlas of the integrin adhesome. Nature Cell Biology, 2007, 9, 858-867.	10.3	1,033
84	A comprehensive library of fluorescent transcriptional reporters for Escherichia coli. Nature Methods, 2006, 3, 623-628.	19.0	680
85	Coding limits on the number of transcription factors. BMC Genomics, 2006, 7, 239.	2.8	78
86	Subgraphs and network motifs in geometric networks. Physical Review E, 2005, 71, 026117.	2.1	63
87	Coarse-graining and self-dissimilarity of complex networks. Physical Review E, 2005, 71, 016127.	2.1	92
88	A universal mechanism ties genotype to phenotype in trinucleotide diseases. PLoS Computational Biology, 2005, preprint, e235.	3.2	0
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	Superfamilies of Evolved and Designed Networks. Science, 2004, 303, 1538-1542.	12.6	1,182