

# Paul Robson

## List of Publications by Year in descending order

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89  
papers

17,239  
citations

38720

50  
h-index

54882

84  
g-index

107  
all docs

107  
docs citations

107  
times ranked

23960  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting p21Cip1 highly expressing cells in adipose tissue alleviates insulin resistance in obesity. <i>Cell Metabolism</i> , 2022, 34, 75-89.e8.	7.2	68
2	Single-cell transcriptome analysis defines mesenchymal stromal cells in the mouse incisor dental pulp. <i>Gene Expression Patterns</i> , 2022, 43, 119228.	0.3	5
3	Transcriptional profiling of macrophages in situ in metastatic melanoma reveals localization-dependent phenotypes and function. <i>Cell Reports Medicine</i> , 2022, 3, 100621.	3.3	15
4	The hyperpolarization-activated, cyclic nucleotide-gated channel resides on myocytes in mouse bladders and contributes to adrenergic-induced detrusor relaxation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 323, R110-R122.	0.9	2
5	Corneal nonmyelinating Schwann cells illuminated by single-cell transcriptomics and visualized by protein biomarkers. <i>Journal of Neuroscience Research</i> , 2021, 99, 731-749.	1.3	15
6	Patterns of transcription factor programs and immune pathway activation define four major subtypes of SCLC with distinct therapeutic vulnerabilities. <i>Cancer Cell</i> , 2021, 39, 346-360.e7.	7.7	422
7	Human KIT+ myeloid cells facilitate visceral metastasis by melanoma. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	5
8	Somatostatin-expressing parafacial neurons are CO <sub>2</sub> /H <sup>+</sup> sensitive and regulate baseline breathing. <i>ELife</i> , 2021, 10, .	2.8	9
9	Sarcomere function activates a p53-dependent DNA damage response that promotes polyploidization and limits in vivo cell engraftment. <i>Cell Reports</i> , 2021, 35, 109088.	2.9	11
10	RNA-Seq reveals changes in human placental metabolism, transport and endocrinology across the first-second trimester transition. <i>Biology Open</i> , 2021, 10, .	0.6	18
11	Abstract 2084: Single-cell multimodal glioma analyses reveal epigenetic regulators of cellular plasticity and environmental stress response. , 2021, , .		0
12	Single-cell multimodal glioma analyses identify epigenetic regulators of cellular plasticity and environmental stress response. <i>Nature Genetics</i> , 2021, 53, 1456-1468.	9.4	111
13	TMOD-13. IDENTIFYING DRIVERS IN THE CONVERGING SYNTENIC REGIONS OF SPONTANEOUS CANINE AND PEDIATRIC HIGH-GRADE GLIOMA USING IMAGING BASED CRISPR-CAS9 ARRAY SCREEN. <i>Neuro-Oncology</i> , 2021, 23, vi218-vi218.	0.6	0
14	Mapping systemic lupus erythematosus heterogeneity at the single-cell level. <i>Nature Immunology</i> , 2020, 21, 1094-1106.	7.0	212
15	Single nuclear RNA sequencing reveals microglia diversity associated with cognitive resilience in the AD <sup>h</sup> BXD mouse model of human Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e041543.	0.4	0
16	Antibody targeting of B7-H4 enhances the immune response in urothelial carcinoma. <i>Oncolmmunology</i> , 2020, 9, 1744897.	2.1	25
17	Transplanting cells from old but not young donors causes physical dysfunction in older recipients. <i>Aging Cell</i> , 2020, 19, e13106.	3.0	51
18	Single-cell analyses reveal increased intratumoral heterogeneity after the onset of therapy resistance in small-cell lung cancer. <i>Nature Cancer</i> , 2020, 1, 423-436.	5.7	218

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19	Cellular taxonomy and spatial organization of the murine ventral posterior hypothalamus. <i>ELife</i> , 2020, 9, .	2.8	45
20	EPCO-27. GLIOMA SINGLE CELL MULTI-OMIC ANALYSES REVEALS REGULATORS OF PLASTICITY AND ADAPTIVE STRESS RESPONSE. <i>Neuro-Oncology</i> , 2020, 22, ii75-ii75.	0.6	0
21	Cross-Species Single-Cell Analysis of Pancreatic Ductal Adenocarcinoma Reveals Antigen-Presenting Cancer-Associated Fibroblasts. <i>Cancer Discovery</i> , 2019, 9, 1102-1123.	7.7	1,120
22	Cellular senescence in progenitor cells contributes to diminished remyelination potential in progressive multiple sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9030-9039.	3.3	161
23	Single-cell transcriptomic analysis of the lateral hypothalamic area reveals molecularly distinct populations of inhibitory and excitatory neurons. <i>Nature Neuroscience</i> , 2019, 22, 642-656.	7.1	239
24	Mapping the Global Chromatin Connectivity Network for Sox2 Function in Neural Stem Cell Maintenance. <i>Cell Stem Cell</i> , 2019, 24, 462-476.e6.	5.2	72
25	Dynamic changes in Sox2 spatio-temporal expression promote the second cell fate decision through <i>Fgf4</i> / <i>Fgfr2</i> signaling in preimplantation mouse embryos. <i>Biochemical Journal</i> , 2018, 475, 1075-1089.	1.7	22
26	Single-Cell Transcriptional Profiling Reveals Cellular Diversity and Intercommunication in the Mouse Heart. <i>Cell Reports</i> , 2018, 22, 600-610.	2.9	435
27	Single-Cell Transcriptome Analysis Reveals Estrogen Signaling Coordinately Augments One-Carbon, Polyamine, and Purine Synthesis in Breast Cancer. <i>Cell Reports</i> , 2018, 25, 2285-2298.e4.	2.9	39
28	Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. <i>Nature Communications</i> , 2018, 9, 1925.	5.8	76
29	Single cell transcriptome profiling of retinal ganglion cells identifies cellular subtypes. <i>Nature Communications</i> , 2018, 9, 2759.	5.8	355
30	Reference component analysis of single-cell transcriptomes elucidates cellular heterogeneity in human colorectal tumors. <i>Nature Genetics</i> , 2017, 49, 708-718.	9.4	849
31	Single-cell transcriptomes identify human islet cell signatures and reveal cell-type-specific expression changes in type 2 diabetes. <i>Genome Research</i> , 2017, 27, 208-222.	2.4	440
32	The role of Cdx2 as a lineage specific transcriptional repressor for pluripotent network during the first developmental cell lineage segregation. <i>Scientific Reports</i> , 2017, 7, 17156.	1.6	58
33	Single-cell multimodal profiling reveals cellular epigenetic heterogeneity. <i>Nature Methods</i> , 2016, 13, 833-836.	9.0	158
34	Histone modifications and p53 binding poise the p21 promoter for activation in human embryonic stem cells. <i>Scientific Reports</i> , 2016, 6, 28112.	1.6	17
35	Tumor-derived circulating endothelial cell clusters in colorectal cancer. <i>Science Translational Medicine</i> , 2016, 8, 345ra89.	5.8	92
36	Selective influence of Sox2 on <i>POU</i> transcription factor binding in embryonic and neural stem cells. <i>EMBO Reports</i> , 2015, 16, 1177-1191.	2.0	52

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37	Identification of cDC1- and cDC2-committed DC progenitors reveals early lineage priming at the common DC progenitor stage in the bone marrow. <i>Nature Immunology</i> , 2015, 16, 718-728.	7.0	475
38	Transcriptional Intricacies of Stem Cells. <i>Cell Systems</i> , 2015, 1, 100-101.	2.9	1
39	Defining the three cell lineages of the human blastocyst by single-cell RNA-seq. <i>Development (Cambridge)</i> , 2015, 142, 3151-65.	1.2	343
40	Single-cell transcriptional analysis to uncover regulatory circuits driving cell fate decisions in early mouse development. <i>Bioinformatics</i> , 2015, 31, 1060-1066.	1.8	43
41	Characterization of the neural stem cell gene regulatory network identifies OLIG2 as a multifunctional regulator of self-renewal. <i>Genome Research</i> , 2015, 25, 41-56.	2.4	60
42	The importance of study design for detecting differentially abundant features in high-throughput experiments. <i>Genome Biology</i> , 2014, 15, 527.	3.8	13
43	Integrative epigenome analysis identifies a Polycomb-targeted differentiation program as a tumor-suppressor event epigenetically inactivated in colorectal cancer. <i>Cell Death and Disease</i> , 2014, 5, e1324-e1324.	2.7	16
44	BMP signalling regulates the pre-implantation development of extra-embryonic cell lineages in the mouse embryo. <i>Nature Communications</i> , 2014, 5, 5667.	5.8	84
45	Bifurcation analysis of single-cell gene expression data reveals epigenetic landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5643-50.	3.3	263
46	Deciphering Developmental Processes from Single-Cell Transcriptomes. <i>Developmental Cell</i> , 2014, 29, 260-261.	3.1	1
47	The Brm-HDAC3-Erm repressor complex suppresses dedifferentiation in <i>Drosophila</i> type II neuroblast lineages. <i>ELife</i> , 2014, 3, e01906.	2.8	60
48	BCL-XL Mediates the Strong Selective Advantage of a 20q11.21 Amplification Commonly Found in Human Embryonic Stem Cell Cultures. <i>Stem Cell Reports</i> , 2013, 1, 379-386.	2.3	132
49	Oct4 switches partnering from Sox2 to Sox17 to reinterpret the enhancer code and specify endoderm. <i>EMBO Journal</i> , 2013, 32, 938-953.	3.5	161
50	Oct4 Cell-Autonomously Promotes Primitive Endoderm Development in the Mouse Blastocyst. <i>Developmental Cell</i> , 2013, 25, 610-622.	3.1	168
51	A genetic and developmental pathway from STAT3 to the OCT4-NANOG circuit is essential for maintenance of ICM lineages in vivo. <i>Genes and Development</i> , 2013, 27, 1378-1390.	2.7	151
52	Co-Motif Discovery Identifies an Esrrb-Sox2-DNA Ternary Complex as a Mediator of Transcriptional Differences Between Mouse Embryonic and Epiblast Stem Cells. <i>Stem Cells</i> , 2013, 31, 269-281.	1.4	36
53	High Throughput Gene Expression Analysis Identifies Reliable Expression Markers of Human Corneal Endothelial Cells. <i>PLoS ONE</i> , 2013, 8, e67546.	1.1	60
54	Single-Cell mRNA Profiling Identifies Progenitor Subclasses in Neurospheres. <i>Stem Cells and Development</i> , 2012, 21, 3351-3362.	1.1	16

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55	Glycine Decarboxylase Activity Drives Non-Small Cell Lung Cancer Tumor-Initiating Cells and Tumorigenesis. <i>Cell</i> , 2012, 148, 259-272.	13.5	593
56	DNA-dependent Oct4-Sox2 interaction and diffusion properties characteristic of the pluripotent cell state revealed by fluorescence spectroscopy. <i>Biochemical Journal</i> , 2012, 448, 21-33.	1.7	41
57	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011, 29, 1132-1144.	9.4	509
58	Conversion of Sox17 into a Pluripotency Reprogramming Factor by Reengineering Its Association with Oct4 on DNA. <i>Stem Cells</i> , 2011, 29, 940-951.	1.4	92
59	Origin and formation of the first two distinct cell types of the inner cell mass in the mouse embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6364-6369.	3.3	269
60	Conserved long noncoding RNAs transcriptionally regulated by Oct4 and Nanog modulate pluripotency in mouse embryonic stem cells. <i>Rna</i> , 2010, 16, 324-337.	1.6	306
61	Resolution of Cell Fate Decisions Revealed by Single-Cell Gene Expression Analysis from Zygote to Blastocyst. <i>Developmental Cell</i> , 2010, 18, 675-685.	3.1	753
62	Gata3 regulates trophoblast development downstream of Tead4 and in parallel to Cdx2. <i>Development (Cambridge)</i> , 2010, 137, 395-403.	1.2	389
63	Eset partners with Oct4 to restrict extraembryonic trophoblast lineage potential in embryonic stem cells. <i>Genes and Development</i> , 2009, 23, 2507-2520.	2.7	218
64	Unraveling the Human Embryonic Stem Cell Phosphoproteome. <i>Cell Stem Cell</i> , 2009, 5, 126-128.	5.2	10
65	A core Klf circuitry regulates self-renewal of embryonic stem cells. <i>Nature Cell Biology</i> , 2008, 10, 353-360.	4.6	678
66	Sall4 Regulates Distinct Transcription Circuitries in Different Blastocyst-Derived Stem Cell Lineages. <i>Cell Stem Cell</i> , 2008, 3, 543-554.	5.2	209
67	Role of Cdx2 and cell polarity in cell allocation and specification of trophectoderm and inner cell mass in the mouse embryo. <i>Genes and Development</i> , 2008, 22, 2692-2706.	2.7	214
68	Oct4 and Sox2 Directly Regulate Expression of Another Pluripotency Transcription Factor, Zfp206, in Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 12822-12830.	1.6	59
69	Zfp206 Is a Transcription Factor That Controls Pluripotency of Embryonic Stem Cells. <i>Stem Cells</i> , 2007, 25, 2173-2182.	1.4	50
70	Sall4 modulates embryonic stem cell pluripotency and early embryonic development by the transcriptional regulation of Pou5f1. <i>Nature Cell Biology</i> , 2006, 8, 1114-1123.	4.6	501
71	The Oct4 and Nanog transcription network regulates pluripotency in mouse embryonic stem cells. <i>Nature Genetics</i> , 2006, 38, 431-440.	9.4	2,162
72	Transcriptome Profiling of Human and Murine ESCs Identifies Divergent Paths Required to Maintain the Stem Cell State. <i>Stem Cells</i> , 2005, 23, 166-185.	1.4	203

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73	Reciprocal Transcriptional Regulation of Pou5f1 and Sox2 via the Oct4/Sox2 Complex in Embryonic Stem Cells. <i>Molecular and Cellular Biology</i> , 2005, 25, 6031-6046.	1.1	599
74	Transcriptional Regulation of Nanog by OCT4 and SOX2. <i>Journal of Biological Chemistry</i> , 2005, 280, 24731-24737.	1.6	942
75	Osteogenic differentiation within intact human embryoid bodies result in a marked increase in osteocalcin secretion after 12 days of in vitro culture, and formation of morphologically distinct nodule-like structures. <i>Tissue and Cell</i> , 2005, 37, 325-334.	1.0	72
76	The maturing of the human embryonic stem cell transcriptome profile. <i>Trends in Biotechnology</i> , 2004, 22, 609-612.	4.9	23
77	Strategies for Directing the Differentiation of Stem Cells Into the Osteogenic Lineage In Vitro. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1379-1394.	3.1	144
78	Regulation of the Murine Nfatc1 Gene by NFATc2. <i>Journal of Biological Chemistry</i> , 2002, 277, 10704-10711.	1.6	111
79	Inner Cell Mass-Specific Expression of a Cell Adhesion Molecule (PECAM-1/CD31) in the Mouse Blastocyst. <i>Developmental Biology</i> , 2001, 234, 317-329.	0.9	70
80	The unusual cartilaginous tissues of jawless craniates, cephalochordates and invertebrates. <i>Cell and Tissue Research</i> , 2001, 304, 165-174.	1.5	58
81	Self-aggregation characteristics of recombinantly expressed human elastin polypeptides. <i>BBA - Proteins and Proteomics</i> , 2001, 1550, 6-19.	2.1	140
82	The Structure and Organization of Lamprin Genes: Multiple-Copy Genes with Alternative Splicing and Convergent Evolution with Insect Structural Proteins. <i>Molecular Biology and Evolution</i> , 2000, 17, 1739-1752.	3.5	26
83	Distinct non-collagen based cartilages comprising the endoskeleton of the Atlantic hagfish, <i>Myxine glutinosa</i> . <i>Anatomy and Embryology</i> , 2000, 202, 281-290.	1.5	27
84	Partial clone of the gene for AS protein of the lamprey <i>Petromyzon marinus</i> , a member of the albumin supergene family whose expression is restricted to the larval and metamorphic phases of the life cycle. , 1998, 282, 301-309.		14
85	Identification and characterization of a serpin with differential expression during the life cycle of the sea lamprey. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 120, 253-263.	0.7	4
86	A Family of Non-“Collagen-Based Cartilages in the Skeleton of the Sea Lamprey, <i>Petromyzon marinus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997, 118, 71-78.	0.7	36
87	The Appearance of Proopiomelanocortin Early in Vertebrate Evolution: Cloning and Sequencing of POMC from a Lamprey Pituitary cDNA Library. <i>General and Comparative Endocrinology</i> , 1995, 99, 137-144.	0.8	86
88	Decreased Elastin Synthesis in Normal Development and in Long-term Aortic Organ and Cell Cultures Is Related to Rapid and Selective Destabilization of mRNA for Elastin. <i>Circulation Research</i> , 1995, 77, 1107-1113.	2.0	65
89	The Role of CDX2 as a Lineage Specific Transcriptional Repressor for Pluripotent Network During Trophoctoderm and Inner Cell Mass Specification. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0