

# Paul Robson

## List of Publications by Citations

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90  
papers

12,481  
citations

46  
h-index

107  
g-index

107  
ext. papers

15,114  
ext. citations

11.7  
avg, IF

5.94  
L-index

| #  | Paper                                                                                                                                                                                                                    | IF   | Citations |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 90 | The Oct4 and Nanog transcription network regulates pluripotency in mouse embryonic stem cells. <i>Nature Genetics</i> , <b>2006</b> , 38, 431-40                                                                         | 36.3 | 1920      |
| 89 | Transcriptional regulation of nanog by OCT4 and SOX2. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 24731-4                                                                                                | 15.7 | 794       |
| 88 | Resolution of cell fate decisions revealed by single-cell gene expression analysis from zygote to blastocyst. <i>Developmental Cell</i> , <b>2010</b> , 18, 675-85                                                       | 10.2 | 635       |
| 87 | A core Klf circuitry regulates self-renewal of embryonic stem cells. <i>Nature Cell Biology</i> , <b>2008</b> , 10, 353-60                                                                                               | 23.4 | 594       |
| 86 | Reciprocal transcriptional regulation of Pou5f1 and Sox2 via the Oct4/Sox2 complex in embryonic stem cells. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 6031-46                                            | 4.8  | 541       |
| 85 | Reference component analysis of single-cell transcriptomes elucidates cellular heterogeneity in human colorectal tumors. <i>Nature Genetics</i> , <b>2017</b> , 49, 708-718                                              | 36.3 | 518       |
| 84 | Glycine decarboxylase activity drives non-small cell lung cancer tumor-initiating cells and tumorigenesis. <i>Cell</i> , <b>2012</b> , 148, 259-72                                                                       | 56.2 | 483       |
| 83 | Cross-Species Single-Cell Analysis of Pancreatic Ductal Adenocarcinoma Reveals Antigen-Presenting Cancer-Associated Fibroblasts. <i>Cancer Discovery</i> , <b>2019</b> , 9, 1102-1123                                    | 24.4 | 479       |
| 82 | Sall4 modulates embryonic stem cell pluripotency and early embryonic development by the transcriptional regulation of Pou5f1. <i>Nature Cell Biology</i> , <b>2006</b> , 8, 1114-23                                      | 23.4 | 445       |
| 81 | Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1132-44                                 | 44.5 | 406       |
| 80 | 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> , <b>2015</b> , 16, 718-28                        | 19.1 | 325       |
| 79 | Gata3 regulates trophoblast development downstream of Tead4 and in parallel to Cdx2. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 395-403                                                                         | 6.6  | 314       |
| 78 | Single-Cell Transcriptional Profiling Reveals Cellular Diversity and Intercommunication in the Mouse Heart. <i>Cell Reports</i> , <b>2018</b> , 22, 600-610                                                              | 10.6 | 258       |
| 77 | Conserved long noncoding RNAs transcriptionally regulated by Oct4 and Nanog modulate pluripotency in mouse embryonic stem cells. <i>Rna</i> , <b>2010</b> , 16, 324-37                                                   | 5.8  | 257       |
| 76 | Single-cell transcriptomes identify human islet cell signatures and reveal cell-type-specific expression changes in type 2 diabetes. <i>Genome Research</i> , <b>2017</b> , 27, 208-222                                  | 9.7  | 254       |
| 75 | 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> , <b>2010</b> , 107, 6364-9 | 11.5 | 226       |
| 74 | Defining the three cell lineages of the human blastocyst by single-cell RNA-seq. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 3151-65                                                                             | 6.6  | 223       |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 73 | 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> , <b>2014</b> , 111, E5643-50                                        | 11.5 | 206 |
| 72 | Single cell transcriptome profiling of retinal ganglion cells identifies cellular subtypes. <i>Nature Communications</i> , <b>2018</b> , 9, 2759                                                                                                   | 17.4 | 194 |
| 71 | Role of Cdx2 and cell polarity in cell allocation and specification of trophoblast and inner cell mass in the mouse embryo. <i>Genes and Development</i> , <b>2008</b> , 22, 2692-706                                                              | 12.6 | 188 |
| 70 | Eset partners with Oct4 to restrict extraembryonic trophoblast lineage potential in embryonic stem cells. <i>Genes and Development</i> , <b>2009</b> , 23, 2507-20                                                                                 | 12.6 | 185 |
| 69 | Transcriptome profiling of human and murine ESCs identifies divergent paths required to maintain the stem cell state. <i>Stem Cells</i> , <b>2005</b> , 23, 166-85                                                                                 | 5.8  | 175 |
| 68 | Sall4 regulates distinct transcription circuitries in different blastocyst-derived stem cell lineages. <i>Cell Stem Cell</i> , <b>2008</b> , 3, 543-54                                                                                             | 18   | 171 |
| 67 | Strategies for directing the differentiation of stem cells into the osteogenic lineage in vitro. <i>Journal of Bone and Mineral Research</i> , <b>2004</b> , 19, 1379-94                                                                           | 6.3  | 133 |
| 66 | Oct4 switches partnering from Sox2 to Sox17 to reinterpret the enhancer code and specify endoderm. <i>EMBO Journal</i> , <b>2013</b> , 32, 938-53                                                                                                  | 13   | 129 |
| 65 | Oct4 cell-autonomously promotes primitive endoderm development in the mouse blastocyst. <i>Developmental Cell</i> , <b>2013</b> , 25, 610-22                                                                                                       | 10.2 | 128 |
| 64 | Self-aggregation characteristics of recombinantly expressed human elastin polypeptides. <i>BBA - Proteins and Proteomics</i> , <b>2001</b> , 1550, 6-19                                                                                            |      | 121 |
| 63 | 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> , <b>2013</b> , 27, 1378-90                                                            | 12.6 | 115 |
| 62 | Single-cell transcriptomic analysis of the lateral hypothalamic area reveals molecularly distinct populations of inhibitory and excitatory neurons. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 642-656                                         | 25.5 | 108 |
| 61 | Patterns of transcription factor programs and immune pathway activation define four major subtypes of SCLC with distinct therapeutic vulnerabilities. <i>Cancer Cell</i> , <b>2021</b> , 39, 346-360.e7                                            | 24.3 | 107 |
| 60 | Regulation of the murine Nfatc1 gene by NFATc2. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 10704-11                                                                                                                               | 5.4  | 100 |
| 59 | Single-cell multimodal profiling reveals cellular epigenetic heterogeneity. <i>Nature Methods</i> , <b>2016</b> , 13, 833-6                                                                                                                        | 21.6 | 97  |
| 58 | 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> , <b>2019</b> , 116, 9030-9039 | 11.5 | 93  |
| 57 | 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> , <b>2013</b> , 1, 379-86                                                                | 8    | 91  |
| 56 | Single-cell analyses reveal increased intratumoral heterogeneity after the onset of therapy resistance in small-cell lung cancer. <i>Nature Cancer</i> , <b>2020</b> , 1, 423-436                                                                  | 15.4 | 88  |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 55 | 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> , <b>1995</b> , 99, 137-44                                                         | 3    | 77 |
| 54 | Conversion of Sox17 into a pluripotency reprogramming factor by reengineering its association with Oct4 on DNA. <i>Stem Cells</i> , <b>2011</b> , 29, 940-51                                                                                                               | 5.8  | 75 |
| 53 | Tumor-derived circulating endothelial cell clusters in colorectal cancer. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 345ra89                                                                                                                                 | 17.5 | 67 |
| 52 | 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> , <b>2005</b> , 37, 325-34 | 2.7  | 65 |
| 51 | Inner cell mass-specific expression of a cell adhesion molecule (PECAM-1/CD31) in the mouse blastocyst. <i>Developmental Biology</i> , <b>2001</b> , 234, 317-29                                                                                                           | 3.1  | 63 |
| 50 | Mapping systemic lupus erythematosus heterogeneity at the single-cell level. <i>Nature Immunology</i> , <b>2020</b> , 21, 1094-1106                                                                                                                                        | 19.1 | 63 |
| 49 | BMP signalling regulates the pre-implantation development of extra-embryonic cell lineages in the mouse embryo. <i>Nature Communications</i> , <b>2014</b> , 5, 5667                                                                                                       | 17.4 | 54 |
| 48 | The unusual cartilaginous tissues of jawless craniates, cephalochordates and invertebrates. <i>Cell and Tissue Research</i> , <b>2001</b> , 304, 165-74                                                                                                                    | 4.2  | 52 |
| 47 | 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> , <b>1995</b> , 77, 1107-13                                           | 15.7 | 52 |
| 46 | Oct4 and Sox2 directly regulate expression of another pluripotency transcription factor, Zfp206, in embryonic stem cells. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 12822-30                                                                             | 5.4  | 48 |
| 45 | Characterization of the neural stem cell gene regulatory network identifies OLIG2 as a multifunctional regulator of self-renewal. <i>Genome Research</i> , <b>2015</b> , 25, 41-56                                                                                         | 9.7  | 47 |
| 44 | Zfp206 is a transcription factor that controls pluripotency of embryonic stem cells. <i>Stem Cells</i> , <b>2007</b> , 25, 2173-82                                                                                                                                         | 5.8  | 45 |
| 43 | High throughput gene expression analysis identifies reliable expression markers of human corneal endothelial cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e67546                                                                                                              | 3.7  | 45 |
| 42 | Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1925                                                                                              | 17.4 | 45 |
| 41 | The Brm-HDAC3-Erm repressor complex suppresses dedifferentiation in Drosophila type II neuroblast lineages. <i>ELife</i> , <b>2014</b> , 3, e01906                                                                                                                         | 8.9  | 43 |
| 40 | Mapping the Global Chromatin Connectivity Network for Sox2 Function in Neural Stem Cell Maintenance. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 462-476.e6                                                                                                                  | 18   | 41 |
| 39 | Single-cell transcriptional analysis to uncover regulatory circuits driving cell fate decisions in early mouse development. <i>Bioinformatics</i> , <b>2015</b> , 31, 1060-6                                                                                               | 7.2  | 35 |
| 38 | The role of Cdx2 as a lineage specific transcriptional repressor for pluripotent network during the first developmental cell lineage segregation. <i>Scientific Reports</i> , <b>2017</b> , 7, 17156                                                                       | 4.9  | 35 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 37 | Selective influence of Sox2 on POU transcription factor binding in embryonic and neural stem cells. <i>EMBO Reports</i> , <b>2015</b> , 16, 1177-91                                                                                                                                       | 6.5  | 35 |
| 36 | DNA-dependent Oct4-Sox2 interaction and diffusion properties characteristic of the pluripotent cell state revealed by fluorescence spectroscopy. <i>Biochemical Journal</i> , <b>2012</b> , 448, 21-33                                                                                    | 3.8  | 34 |
| 35 | 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> , <b>1997</b> , 118, 71-78 <sup>3</sup>                                                   | 2.3  | 30 |
| 34 | 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> , <b>2013</b> , 31, 269-81                                                                                | 5.8  | 29 |
| 33 | Distinct non-collagen based cartilages comprising the endoskeleton of the Atlantic hagfish, <i>Myxine glutinosa</i> . <i>Anatomy and Embryology</i> , <b>2000</b> , 202, 281-90                                                                                                           |      | 25 |
| 32 | Transplanting cells from old but not young donors causes physical dysfunction in older recipients. <i>Aging Cell</i> , <b>2020</b> , 19, e13106                                                                                                                                           | 9.9  | 24 |
| 31 | 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> , <b>2000</b> , 17, 1739-52                                                               | 8.3  | 23 |
| 30 | The maturing of the human embryonic stem cell transcriptome profile. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 609-12                                                                                                                                                            | 15.1 | 22 |
| 29 | Single-Cell Transcriptome Analysis Reveals Estrogen Signaling Coordinately Augments One-Carbon, Polyamine, and Purine Synthesis in Breast Cancer. <i>Cell Reports</i> , <b>2018</b> , 25, 2285-2298.e4                                                                                    | 10.6 | 20 |
| 28 | Antibody targeting of B7-H4 enhances the immune response in urothelial carcinoma. <i>Oncotarget</i> , <b>2020</b> , 9, 1744897                                                                                                                                                            | 7.2  | 16 |
| 27 | Dynamic changes in Sox2 spatio-temporal expression promote the second cell fate decision through / signaling in preimplantation mouse embryos. <i>Biochemical Journal</i> , <b>2018</b> , 475, 1075-1089                                                                                  | 3.8  | 16 |
| 26 | Single-cell mRNA profiling identifies progenitor subclasses in neurospheres. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 3351-62                                                                                                                                                | 4.4  | 15 |
| 25 | 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> , <b>2014</b> , 5, e1324                                                                 | 9.8  | 14 |
| 24 | Histone modifications and p53 binding poise the p21 promoter for activation in human embryonic stem cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 28112                                                                                                                             | 4.9  | 13 |
| 23 | 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. <i>The Journal of Experimental Zoology</i> , <b>1998</b> , 282, 301-9 |      | 13 |
| 22 | The importance of study design for detecting differentially abundant features in high-throughput experiments. <i>Genome Biology</i> , <b>2014</b> , 15, 527                                                                                                                               | 18.3 | 11 |
| 21 | Unraveling the human embryonic stem cell phosphoproteome. <i>Cell Stem Cell</i> , <b>2009</b> , 5, 126-8                                                                                                                                                                                  | 18   | 10 |
| 20 | Cellular taxonomy and spatial organization of the murine ventral posterior hypothalamus. <i>ELife</i> , <b>2020</b> , 9,                                                                                                                                                                  | 8.9  | 10 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 19 | Comprehensive Cell Type Specific Transcriptomics of the Human Kidney                                                                                                                                                                     |      | 10 |
| 18 | Single-cell multimodal glioma analyses identify epigenetic regulators of cellular plasticity and environmental stress response. <i>Nature Genetics</i> , <b>2021</b> , 53, 1456-1468                                                     | 36.3 | 9  |
| 17 | CellView: Interactive exploration of high dimensional single cell RNA-seq data                                                                                                                                                           |      | 7  |
| 16 | Targeting p21 highly expressing cells in adipose tissue alleviates insulin resistance in obesity. <i>Cell Metabolism</i> , <b>2021</b> ,                                                                                                 | 24.6 | 6  |
| 15 | Sarcomere function activates a p53-dependent DNA damage response that promotes polyploidization and limits in vivo cell engraftment. <i>Cell Reports</i> , <b>2021</b> , 35, 109088                                                      | 10.6 | 4  |
| 14 | RNA-Seq reveals changes in human placental metabolism, transport and endocrinology across the first-second trimester transition. <i>Biology Open</i> , <b>2021</b> , 10,                                                                 | 2.2  | 4  |
| 13 | 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> , <b>1998</b> , 120, 253-63 | 2.3  | 3  |
| 12 | Corneal nonmyelinating Schwann cells illuminated by single-cell transcriptomics and visualized by protein biomarkers. <i>Journal of Neuroscience Research</i> , <b>2021</b> , 99, 731-749                                                | 4.4  | 3  |
| 11 | Single-cell multimodal glioma analyses reveal epigenetic regulators of cellular plasticity and environmental stress response                                                                                                             |      | 2  |
| 10 | Somatostatin-expressing parafacial neurons are CO/H sensitive and regulate baseline breathing. <i>ELife</i> , <b>2021</b> , 10,                                                                                                          | 8.9  | 2  |
| 9  | Transcriptional Intricacies of Stem Cells. <i>Cell Systems</i> , <b>2015</b> , 1, 100-1                                                                                                                                                  | 10.6 | 1  |
| 8  | Deciphering developmental processes from single-cell transcriptomes. <i>Developmental Cell</i> , <b>2014</b> , 29, 260-1                                                                                                                 | 10.2 | 1  |
| 7  | Human KIT+ myeloid cells facilitate visceral metastasis by melanoma. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,                                                                                                        | 16.6 | 1  |
| 6  | A Cellular Reference Resource for the Mouse Urinary Bladder                                                                                                                                                                              |      | 1  |
| 5  | Transcriptional profiling of macrophages in situ in metastatic melanoma reveals localization-dependent phenotypes and function.. <i>Cell Reports Medicine</i> , <b>2022</b> , 3, 100621                                                  | 18   | 1  |
| 4  | Single nuclear RNA sequencing reveals microglia diversity associated with cognitive resilience in the AD-BXD mouse model of human Alzheimer's disease. <i>Alzheimers and Dementia</i> , <b>2020</b> , 16, e041543                        | 1.2  |    |
| 3  | EPCO-27. GLIOMA SINGLE CELL MULTI-OMIC ANALYSES REVEALS REGULATORS OF PLASTICITY AND ADAPTIVE STRESS RESPONSE. <i>Neuro-Oncology</i> , <b>2020</b> , 22, ii75-ii75                                                                       | 1    |    |
| 2  | 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> , <b>2021</b> , 23, vi218-vi218                | 1    |    |

- 1 Single-cell transcriptome analysis defines mesenchymal stromal cells in the mouse incisor dental pulp.. *Gene Expression Patterns*, **2021**, 43, 119228 1.5