

Iain C Macaulay

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

9,664
citations

87888

38
h-index

161849

54
g-index

71
all docs

71
docs citations

71
times ranked

16449
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-neuronal expression of SARS-CoV-2 entry genes in the olfactory system suggests mechanisms underlying COVID-19-associated anosmia. <i>Science Advances</i> , 2020, 6, .	10.3	865
2	G&T-seq: parallel sequencing of single-cell genomes and transcriptomes. <i>Nature Methods</i> , 2015, 12, 519-522.	19.0	633
3	Parallel single-cell sequencing links transcriptional and epigenetic heterogeneity. <i>Nature Methods</i> , 2016, 13, 229-232.	19.0	602
4	Power analysis of single-cell RNA-sequencing experiments. <i>Nature Methods</i> , 2017, 14, 381-387.	19.0	496
5	Platelet-biased stem cells reside at the apex of the haematopoietic stem-cell hierarchy. <i>Nature</i> , 2013, 502, 232-236.	27.8	493
6	Single-Cell Multiomics: Multiple Measurements from Single Cells. <i>Trends in Genetics</i> , 2017, 33, 155-168.	6.7	392
7	Heterogeneity in Oct4 and Sox2 Targets Biases Cell Fate in 4-Cell Mouse Embryos. <i>Cell</i> , 2016, 165, 61-74.	28.9	385
8	Combined Single-Cell Functional and Gene Expression Analysis Resolves Heterogeneity within Stem Cell Populations. <i>Cell Stem Cell</i> , 2015, 16, 712-724.	11.1	376
9	Decoding the regulatory network of early blood development from single-cell gene expression measurements. <i>Nature Biotechnology</i> , 2015, 33, 269-276.	17.5	352
10	Single Cell Genomics: Advances and Future Perspectives. <i>PLoS Genetics</i> , 2014, 10, e1004126.	3.5	337
11	Population and single-cell genomics reveal the <i>Aire</i> dependency, relief from Polycomb silencing, and distribution of self-antigen expression in thymic epithelia. <i>Genome Research</i> , 2014, 24, 1918-1931.	5.5	308
12	Single-Cell Landscape of Transcriptional Heterogeneity and Cell Fate Decisions during Mouse Early Gastrulation. <i>Cell Reports</i> , 2017, 20, 1215-1228.	6.4	290
13	Myelodysplastic Syndromes Are Propagated by Rare and Distinct Human Cancer Stem Cells In Vivo. <i>Cancer Cell</i> , 2014, 25, 794-808.	16.8	272
14	Resolving early mesoderm diversification through single-cell expression profiling. <i>Nature</i> , 2016, 535, 289-293.	27.8	261
15	Characterization of transcriptional networks in blood stem and progenitor cells using high-throughput single-cell gene expression analysis. <i>Nature Cell Biology</i> , 2013, 15, 363-372.	10.3	257
16	Transcriptional diversity during lineage commitment of human blood progenitors. <i>Science</i> , 2014, 345, 1251033.	12.6	253
17	Single-cell RNA sequencing reveals molecular and functional platelet bias of aged haematopoietic stem cells. <i>Nature Communications</i> , 2016, 7, 11075.	12.8	238
18	Lymphomyeloid Contribution of an Immune-Restricted Progenitor Emerging Prior to Definitive Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , 2013, 13, 535-548.	11.1	225

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19	A HaemAtlas: characterizing gene expression in differentiated human blood cells. <i>Blood</i> , 2009, 113, e1-e9.	1.4	215
20	Genome-wide in vivo screen identifies novel host regulators of metastatic colonization. <i>Nature</i> , 2017, 541, 233-236.	27.8	194
21	Pluripotent state transitions coordinate morphogenesis in mouse and human embryos. <i>Nature</i> , 2017, 552, 239-243.	27.8	193
22	Single-Cell RNA-Sequencing Reveals a Continuous Spectrum of Differentiation in Hematopoietic Cells. <i>Cell Reports</i> , 2016, 14, 966-977.	6.4	164
23	Comparative gene expression profiling of in vitro differentiated megakaryocytes and erythroblasts identifies novel activatory and inhibitory platelet membrane proteins. <i>Blood</i> , 2007, 109, 3260-3269.	1.4	153
24	Platelet genomics and proteomics in human health and disease. <i>Journal of Clinical Investigation</i> , 2005, 115, 3370-3377.	8.2	146
25	Separation and parallel sequencing of the genomes and transcriptomes of single cells using C&T-seq. <i>Nature Protocols</i> , 2016, 11, 2081-2103.	12.0	142
26	The earliest thymic T cell progenitors sustain B cell and myeloid lineage potential. <i>Nature Immunology</i> , 2012, 13, 412-419.	14.5	132
27	PDGFR β demarcates the cardiogenic clonogenic Sca1+ stem/progenitor cell in adult murine myocardium. <i>Nature Communications</i> , 2015, 6, 6930.	12.8	130
28	Single-cell transcriptome analysis of fish immune cells provides insight into the evolution of vertebrate immune cell types. <i>Genome Research</i> , 2017, 27, 451-461.	5.5	126
29	Transcription profiling in human platelets reveals LRRFIP1 as a novel protein regulating platelet function. <i>Blood</i> , 2010, 116, 4646-4656.	1.4	90
30	ROS-mediated PI3K activation drives mitochondrial transfer from stromal cells to hematopoietic stem cells in response to infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24610-24619.	7.1	82
31	Functional genomics in zebrafish permits rapid characterization of novel platelet membrane proteins. <i>Blood</i> , 2009, 113, 4754-4762.	1.4	69
32	Acute myeloid leukemia induces protumoral p16INK4a-driven senescence in the bone marrow microenvironment. <i>Blood</i> , 2019, 133, 446-456.	1.4	67
33	The novel inhibitory receptor G6B is expressed on the surface of platelets and attenuates platelet function in vitro. <i>Blood</i> , 2007, 109, 4806-4809.	1.4	64
34	Canonical Wnt signaling negatively regulates platelet function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19836-19841.	7.1	61
35	Dynamic spatio-temporal contribution of single β 25t+ cortical epithelial precursors to the thymus medulla. <i>European Journal of Immunology</i> , 2016, 46, 846-856.	2.9	56
36	Defining Cell Identity with Single-Cell Omics. <i>Proteomics</i> , 2018, 18, e1700312.	2.2	52

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37	Initial seeding of the embryonic thymus by immune-restricted lympho-myeloid progenitors. <i>Nature Immunology</i> , 2016, 17, 1424-1435.	14.5	49
38	Into the multiverse: advances in single-cell multiomic profiling. <i>Trends in Genetics</i> , 2022, 38, 831-843.	6.7	46
39	Canonical Wnt signaling in megakaryocytes regulates proplatelet formation. <i>Blood</i> , 2013, 121, 188-196.	1.4	42
40	FLT3-ITDs Instruct a Myeloid Differentiation and Transformation Bias in Lymphomyeloid Multipotent Progenitors. <i>Cell Reports</i> , 2013, 3, 1766-1776.	6.4	40
41	Common clonal origin of conventional T cells and induced regulatory T cells in breast cancer patients. <i>Nature Communications</i> , 2021, 12, 1119.	12.8	26
42	Meiosis and beyond – understanding the mechanistic and evolutionary processes shaping the germline genome. <i>Biological Reviews</i> , 2021, 96, 822-841.	10.4	25
43	Chemotherapy induces canalization of cell state in childhood B-cell precursor acute lymphoblastic leukemia. <i>Nature Cancer</i> , 2021, 2, 835-852.	13.2	25
44	Sequencing smart: De novo sequencing and assembly approaches for a non-model mammal. <i>GigaScience</i> , 2020, 9, .	6.4	18
45	Spatially resolved transcriptomics reveals plant host responses to pathogens. <i>Plant Methods</i> , 2019, 15, 114.	4.3	17
46	High expression of the MADS-box gene <i>VRT2</i> increases the number of rudimentary basal spikelets in wheat. <i>Plant Physiology</i> , 2022, 189, 1536-1552.	4.8	17
47	Transcriptional characterization of human megakaryocyte polyploidization and lineage commitment. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 1236-1249.	3.8	15
48	Identification of variation in the platelet transcriptome associated with Glycoprotein 6 haplotype. <i>Platelets</i> , 2008, 19, 258-267.	2.3	9
49	A low-cost pipeline for soil microbiome profiling. <i>MicrobiologyOpen</i> , 2020, 9, e1133.	3.0	8
50	Integrin Based Isolation Enables Purification of Murine Lineage Committed Cardiomyocytes. <i>PLoS ONE</i> , 2015, 10, e0135880.	2.5	6
51	Perivascular Niche Cells Sense Thrombocytopenia and Activate Platelet-Biased Hscs in an IL-1 Dependent Manner. <i>Experimental Hematology</i> , 2018, 64, S44.	0.4	2
52	Improving the power to detect differentially expressed genes in comparative microarray experiments by including information from self-self hybridizations. <i>Computational Biology and Chemistry</i> , 2007, 31, 178-185.	2.3	1
53	Establishment of lympho-myeloid restricted progenitors prior to the emergence of definitive hematopoietic stem cells. <i>Experimental Hematology</i> , 2013, 41, S13.	0.4	0
54	Embryonic thymopoiesis is initiated by an immune-restricted lympho-myeloid progenitor independently of notch signaling. <i>Experimental Hematology</i> , 2016, 44, S65.	0.4	0

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55	Embryonic thymopoiesis is initiated by an immune-restricted lympho-myeloid progenitor, independently of notch signaling. <i>Experimental Hematology</i> , 2017, 53, S113-S114.	0.4	0
56	The Earliest Thymic T Cell Progenitors Sustain B Cell and Myeloid Lineage Potentials. <i>Blood</i> , 2011, 118, 2335-2335.	1.4	0
57	The MEIS1 Interactome in Megakaryocytes Reveals a Role in Cell Cycle Regulation,. <i>Blood</i> , 2011, 118, 3380-3380.	1.4	0
58	FLT3-ITDs Introduce a Myeloid Differentiation and Transformation Bias to Multipotent Lympho-Myeloid Progenitors. <i>Blood</i> , 2011, 118, 1380-1380.	1.4	0
59	Diverse Genetic Lesions In Myelodysplastic Syndromes Originate Exclusively In Rare MDS Stem Cells. <i>Blood</i> , 2013, 122, 4195-4195.	1.4	0
60	3098 " SINGLE-CELL ANALYSIS OF ALTERNATIVE SPLICING IN HEMATOPOIETIC STEM AND PROGENITOR CELLS. <i>Experimental Hematology</i> , 2021, 100, S89.	0.4	0