

Sean J Morrison

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96 papers	35,761 citations	55 h-index	109 g-index
109 ext. papers	40,514 ext. citations	25.8 avg, IF	7.55 L-index

#	Paper	IF	Citations
96	Stem cells, cancer, and cancer stem cells. <i>Nature</i> , 2001 , 414, 105-11	50.4	7504
95	SLAM family receptors distinguish hematopoietic stem and progenitor cells and reveal endothelial niches for stem cells. <i>Cell</i> , 2005 , 121, 1109-21	56.2	2459
94	Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. <i>Nature</i> , 2003 , 423, 302-5	50.4	1587
93	The bone marrow niche for haematopoietic stem cells. <i>Nature</i> , 2014 , 505, 327-34	50.4	1479
92	Efficient tumour formation by single human melanoma cells. <i>Nature</i> , 2008 , 456, 593-8	50.4	1463
91	Stem cells and niches: mechanisms that promote stem cell maintenance throughout life. <i>Cell</i> , 2008 , 132, 598-611	56.2	1449
90	Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes. <i>Nature</i> , 2003 , 425, 968-73	50.4	1381
89	Endothelial and perivascular cells maintain haematopoietic stem cells. <i>Nature</i> , 2012 , 481, 457-62	50.4	1285
88	Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation. <i>Nature</i> , 2003 , 425, 962-7	50.4	1107
87	Pten dependence distinguishes haematopoietic stem cells from leukaemia-initiating cells. <i>Nature</i> , 2006 , 441, 475-82	50.4	1104
86	Asymmetric and symmetric stem-cell divisions in development and cancer. <i>Nature</i> , 2006 , 441, 1068-74	50.4	1021
85	The long-term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. <i>Immunity</i> , 1994 , 1, 661-73	32.3	880
84	Haematopoietic stem cells and early lymphoid progenitors occupy distinct bone marrow niches. <i>Nature</i> , 2013 , 495, 231-5	50.4	835
83	Increasing p16INK4a expression decreases forebrain progenitors and neurogenesis during ageing. <i>Nature</i> , 2006 , 443, 448-52	50.4	793
82	Leptin-receptor-expressing mesenchymal stromal cells represent the main source of bone formed by adult bone marrow. <i>Cell Stem Cell</i> , 2014 , 15, 154-68	18	737
81	The aging of hematopoietic stem cells. <i>Nature Medicine</i> , 1996 , 2, 1011-6	50.5	691
80	Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015 , 527, 186-91	50.4	681

79	Transient Notch activation initiates an irreversible switch from neurogenesis to gliogenesis by neural crest stem cells. <i>Cell</i> , 2000 , 101, 499-510	56.2	617
78	Hmga2 promotes neural stem cell self-renewal in young but not old mice by reducing p16Ink4a and p19Arf Expression. <i>Cell</i> , 2008 , 135, 227-39	56.2	489
77	Phenotypic heterogeneity among tumorigenic melanoma cells from patients that is reversible and not hierarchically organized. <i>Cancer Cell</i> , 2010 , 18, 510-23	24.3	481
76	Bmi-1 promotes neural stem cell self-renewal and neural development but not mouse growth and survival by repressing the p16Ink4a and p19Arf senescence pathways. <i>Genes and Development</i> , 2005 , 19, 1432-7	12.6	480
75	Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. <i>Nature</i> , 2015 , 526, 126-30	50.4	428
74	Mechanisms of stem cell self-renewal. <i>Annual Review of Cell and Developmental Biology</i> , 2009 , 25, 377-406	46.6	418
73	SLAM family markers resolve functionally distinct subpopulations of hematopoietic stem cells and multipotent progenitors. <i>Cell Stem Cell</i> , 2013 , 13, 102-16	18	388
72	Adult haematopoietic stem cell niches. <i>Nature Reviews Immunology</i> , 2017 , 17, 573-590	36.5	379
71	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. <i>Nature</i> , 2010 , 468, 653-8	50.4	378
70	Haematopoietic stem cells require a highly regulated protein synthesis rate. <i>Nature</i> , 2014 , 509, 49-54	50.4	351
69	Culture in reduced levels of oxygen promotes clonogenic sympathoadrenal differentiation by isolated neural crest stem cells. <i>Journal of Neuroscience</i> , 2000 , 20, 7370-6	6.6	342
68	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017 , 549, 476-483	50.4	272
67	Mechanisms that regulate stem cell aging and life span. <i>Cell Stem Cell</i> , 2013 , 12, 152-65	18	245
66	Neural crest stem cells undergo multilineage differentiation in developing peripheral nerves to generate endoneurial fibroblasts in addition to Schwann cells. <i>Development (Cambridge)</i> , 2004 , 131, 5599-612	6.6	238
65	Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. <i>Nature</i> , 2014 , 505, 555-8	50.4	235
64	Leptin Receptor Promotes Adipogenesis and Reduces Osteogenesis by Regulating Mesenchymal Stromal Cells in Adult Bone Marrow. <i>Cell Stem Cell</i> , 2016 , 18, 782-796	18	233
63	Bone marrow adipocytes promote the regeneration of stem cells and haematopoiesis by secreting SCF. <i>Nature Cell Biology</i> , 2017 , 19, 891-903	23.4	229
62	Lymph protects metastasizing melanoma cells from ferroptosis. <i>Nature</i> , 2020 , 585, 113-118	50.4	176

61	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. <i>Cancer Cell</i> , 2015 , 27, 755-68	24.3	175
60	Prdm16 promotes stem cell maintenance in multiple tissues, partly by regulating oxidative stress. <i>Nature Cell Biology</i> , 2010 , 12, 999-1006	23.4	154
59	mTOR activation induces tumor suppressors that inhibit leukemogenesis and deplete hematopoietic stem cells after Pten deletion. <i>Cell Stem Cell</i> , 2010 , 7, 593-605	18	149
58	Temporal changes in PTEN and mTORC2 regulation of hematopoietic stem cell self-renewal and leukemia suppression. <i>Cell Stem Cell</i> , 2012 , 11, 415-28	18	147
57	A perisinusoidal niche for extramedullary haematopoiesis in the spleen. <i>Nature</i> , 2015 , 527, 466-471	50.4	145
56	Metabolic heterogeneity confers differences in melanoma metastatic potential. <i>Nature</i> , 2020 , 577, 115-120	50.4	141
55	Cancer, Oxidative Stress, and Metastasis. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016 , 81, 163-175	3.9	136
54	Lens regeneration using endogenous stem cells with gain of visual function. <i>Nature</i> , 2016 , 531, 323-8	50.4	125
53	Cellular differences in protein synthesis regulate tissue homeostasis. <i>Cell</i> , 2014 , 159, 242-51	56.2	125
52	Hematopoietic stem and progenitor cells regulate the regeneration of their niche by secreting Angiopoietin-1. <i>ELife</i> , 2015 , 4, e05521	8.9	114
51	Infection mobilizes hematopoietic stem cells through cooperative NOD-like receptor and Toll-like receptor signaling. <i>Cell Host and Microbe</i> , 2014 , 15, 779-91	23.4	109
50	Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain. <i>ELife</i> , 2014 , 3, e02669	8.9	95
49	Oncogenic Nras has bimodal effects on stem cells that sustainably increase competitiveness. <i>Nature</i> , 2013 , 504, 143-147	50.4	82
48	Human melanoma metastasis in NSG mice correlates with clinical outcome in patients. <i>Science Translational Medicine</i> , 2012 , 4, 159ra149	17.5	81
47	Toward an understanding of the physiological function of Mammalian stem cells. <i>Developmental Cell</i> , 2005 , 9, 173-83	10.2	81
46	Restricted Hematopoietic Progenitors and Erythropoiesis Require SCF from Leptin Receptor+ Niche Cells in the Bone Marrow. <i>Cell Stem Cell</i> , 2019 , 24, 477-486.e6	18	79
45	HIV-1 utilizes the CXCR4 chemokine receptor to infect multipotent hematopoietic stem and progenitor cells. <i>Cell Host and Microbe</i> , 2011 , 9, 223-234	23.4	76
44	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. <i>Nature Methods</i> , 2019 , 16, 1109-1113	21.6	69

43	Bmi-1 over-expression in neural stem/progenitor cells increases proliferation and neurogenesis in culture but has little effect on these functions in vivo. <i>Developmental Biology</i> , 2009 , 328, 257-72	3.1	68
42	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019 , 9, 1228-1247	24.4	61
41	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. <i>Nature</i> , 2021 , 591, 438-444	50.4	52
40	In-Depth Evaluation of a Case of Presumed Myocarditis After the Second Dose of COVID-19 mRNA Vaccine. <i>Circulation</i> , 2021 , 144, 487-498	16.7	52
39	Clec11a/osteolectin is an osteogenic growth factor that promotes the maintenance of the adult skeleton. <i>ELife</i> , 2016 , 5,	8.9	51
38	CD150- cells are transiently reconstituting multipotent progenitors with little or no stem cell activity. <i>Blood</i> , 2008 , 111, 4413-4; author reply 4414-5	2.2	49
37	The rate of protein synthesis in hematopoietic stem cells is limited partly by 4E-BPs. <i>Genes and Development</i> , 2016 , 30, 1698-703	12.6	48
36	Precise let-7 expression levels balance organ regeneration against tumor suppression. <i>ELife</i> , 2015 , 4, e09431	8.9	37
35	Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. <i>ELife</i> , 2019 , 8,	8.9	35
34	Prdm16 is required for the maintenance of neural stem cells in the postnatal forebrain and their differentiation into ependymal cells. <i>Genes and Development</i> , 2017 , 31, 1134-1146	12.6	32
33	Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. <i>Nature Communications</i> , 2016 , 7, 12336	17.4	29
32	27-Hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. <i>Journal of Clinical Investigation</i> , 2017 , 127, 3392-3401	15.9	29
31	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017 , 3, eaao5268	14.3	28
30	CD4 is expressed on a heterogeneous subset of hematopoietic progenitors, which persistently harbor CXCR4 and CCR5-tropic HIV proviral genomes in vivo. <i>PLoS Pathogens</i> , 2017 , 13, e1006509	7.6	27
29	Niches that regulate stem cells and hematopoiesis in adult bone marrow. <i>Developmental Cell</i> , 2021 , 56, 1848-1860	10.2	26
28	Bmi1 is required for the initiation of pancreatic cancer through an Ink4a-independent mechanism. <i>Carcinogenesis</i> , 2015 , 36, 730-8	4.6	25
27	TLR9 and beclin-1 crosstalk regulates muscle AMPK activation in exercise. <i>Nature</i> , 2020 , 578, 605-609	50.4	24
26	Digoxin Plus Trametinib Therapy Achieves Disease Control in BRAF Wild-Type Metastatic Melanoma Patients. <i>Neoplasia</i> , 2017 , 19, 255-260	6.4	23

25	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. <i>Cell Reports</i> , 2019 , 28, 2293-2305.e9	10.6	20
24	Distinct Brca1 Mutations Differentially Reduce Hematopoietic Stem Cell Function. <i>Cell Reports</i> , 2017 , 18, 947-960	10.6	17
23	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. <i>ELife</i> , 2021 , 10,	8.9	14
22	Identification of Fibroblast Activation Protein as an Osteogenic Suppressor and Anti-osteoporosis Drug Target. <i>Cell Reports</i> , 2020 , 33, 108252	10.6	8
21	Redox Regulation in Cancer Cells during Metastasis. <i>Cancer Discovery</i> , 2021 , 11, 2682-2692	24.4	7
20	Metabolic Adaptation Fuels Lymph Node Metastasis. <i>Cell Metabolism</i> , 2019 , 29, 785-786	24.6	6
19	Cell size is a determinant of stem cell potential during aging. <i>Science Advances</i> , 2021 , 7, eabk0271	14.3	6
18	Aspartate availability limits hematopoietic stem cell function during hematopoietic regeneration. <i>Cell Stem Cell</i> , 2021 , 28, 1982-1999.e8	18	5
17	Stable isotope tracing to assess tumor metabolism in vivo. <i>Nature Protocols</i> , 2021 , 16, 5123-5145	18.8	4
16	Metabolic regulation of somatic stem cells in vivo.. <i>Nature Reviews Molecular Cell Biology</i> , 2022 ,	48.7	4
15	Author response: A network of heterochronic genes including Imp1 regulates temporal changes in stem cell properties 2013 ,		3
14	Stem cells, cancer, and cancer stem cells		3
13	Cell size is a determinant of stem cell potential during aging		2
12	Light-sheet microscopy with isotropic, sub-micron resolution and solvent-independent large-scale imaging		2
11	Heterogeneity in PHGDH protein expression potentiates cancer cell dissemination and metastasis		2
10	Identifying metabolomic features that predict metastasis of melanoma from a primary site. <i>Cancer & Metabolism</i> , 2014 , 2,	5.4	1
9	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues		1
8	New guidelines for stem cell and embryo research from the ISSCR. <i>Cell Stem Cell</i> , 2021 , 28, 991-992	18	0

7	Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation.. <i>Nature Cell Biology</i> , 2022 , 24, 697-707	23.4	0
6	Evaluation of Xie et al.: Sphingolipid Modulation Activates Proteostasis Programs to Govern Human Hematopoietic Stem Cell Self-Renewal. <i>Cell Stem Cell</i> , 2019 , 25, 585-586	18	
5	Reticular Dysgenesis-Associated Adenylate Kinase 2 Deficiency Impairs Hematopoietic Stem and Progenitor Cell Function through Reductive Stress. <i>Blood</i> , 2020 , 136, 33-33	2.2	
4	Therapeutic Synergy from Combined Inhibition of the SERCA Channel and MAPK Signaling Pathway in MAPK-Dependent Leukemia. <i>Blood</i> , 2015 , 126, 1264-1264	2.2	
3	Digoxin plus trametinib therapy of BRAF wild type metastatic melanoma patients.. <i>Journal of Clinical Oncology</i> , 2016 , 34, 9527-9527	2.2	
2	Oncogenic Nras Increases Hematopoietic Stem Cell Proliferation and Self-Renewal Through a Bimodal Effect. <i>Blood</i> , 2012 , 120, 119-119	2.2	
1	Beth Levine M.D. Prize in Autophagy Research. <i>Autophagy</i> , 1-1	10.2	