Sean J Morrison

List of Publications by Year
in descending order

96 papers	44,056 citations	20797 60 h-index	46771 89 g-index
109 all docs	109 docs citations	109 times ranked	44201 citing authors

#	Article	IF	Citations
1	Stem cells, cancer, and cancer stem cells. Nature, 2001, 414, 105-111.	13.7	8,665
2	SLAM Family Receptors Distinguish Hematopoietic Stem and Progenitor Cells and Reveal Endothelial Niches for Stem Cells. Cell, 2005, 121, 1109-1121.	13.5	2,815
3	The bone marrow niche for haematopoietic stem cells. Nature, 2014, 505, 327-334.	13.7	1,910
4	Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. Nature, 2003, 423, 302-305.	13.7	1,768
5	Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. Cell, 2008, 132, 598-611.	13.5	1,706
6	Efficient tumour formation by single human melanoma cells. Nature, 2008, 456, 593-598.	13.7	1,674
7	Endothelial and perivascular cells maintain haematopoietic stem cells. Nature, 2012, 481, 457-462.	13.7	1,617
8	Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes. Nature, 2003, 425, 968-973.	13.7	1,545
9	Asymmetric and symmetric stem-cell divisions in development and cancer. Nature, 2006, 441, 1068-1074.	13.7	1,220
10	Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation. Nature, 2003, 425, 962-967.	13.7	1,217
11	Pten dependence distinguishes haematopoietic stem cells from leukaemia-initiating cells. Nature, 2006, 441, 475-482.	13.7	1,217
12	Leptin-Receptor-Expressing Mesenchymal Stromal Cells Represent the Main Source of Bone Formed by Adult Bone Marrow. Cell Stem Cell, 2014, 15, 154-168.	5.2	1,034
13	Haematopoietic stem cells and early lymphoid progenitors occupy distinct bone marrow niches. Nature, 2013, 495, 231-235.	13.7	1,017
14	The long-term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. Immunity, 1994, 1, 661-673.	6.6	976
15	Oxidative stress inhibits distant metastasis by human melanoma cells. Nature, 2015, 527, 186-191.	13.7	964
16	Increasing p16INK4a expression decreases forebrain progenitors and neurogenesis during ageing. Nature, 2006, 443, 448-452.	13.7	895
17	The aging of hematopoietic stem cells. Nature Medicine, 1996, 2, 1011-1016.	15.2	790
18	Transient Notch Activation Initiates an Irreversible Switch from Neurogenesis to Gliogenesis by Neural Crest Stem Cells. Cell, 2000, 101, 499-510.	13.5	674

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19	Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. Nature, 2015, 526, 126-130.	13.7	564
20	Phenotypic Heterogeneity among Tumorigenic Melanoma Cells from Patients that Is Reversible and Not Hierarchically Organized. Cancer Cell, 2010, 18, 510-523.	7.7	555
21	Hmga2 Promotes Neural Stem Cell Self-Renewal in Young but Not Old Mice by Reducing p16Ink4a and p19Arf Expression. Cell, 2008, 135, 227-239.	13.5	553
22	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. Genes and Development, 2005, 19, 1432-1437.	2.7	535
23	Adult haematopoietic stem cell niches. Nature Reviews Immunology, 2017, 17, 573-590.	10.6	528
24	Haematopoietic stem cells require a highly regulated protein synthesis rate. Nature, 2014, 509, 49-54.	13.7	522
25	SLAM Family Markers Resolve Functionally Distinct Subpopulations of Hematopoietic Stem Cells and Multipotent Progenitors. Cell Stem Cell, 2013, 13, 102-116.	5.2	521
26	Mechanisms of Stem Cell Self-Renewal. Annual Review of Cell and Developmental Biology, 2009, 25, 377-406.	4.0	503
27	Lymph protects metastasizing melanoma cells from ferroptosis. Nature, 2020, 585, 113-118.	13.7	484
28	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. Nature, 2010, 468, 653-658.	13.7	446
29	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. Nature, 2017, 549, 476-481.	13.7	398
30	Culture in Reduced Levels of Oxygen Promotes Clonogenic Sympathoadrenal Differentiation by Isolated Neural Crest Stem Cells. Journal of Neuroscience, 2000, 20, 7370-7376.	1.7	366
31	Bone marrow adipocytes promote the regeneration of stem cells and haematopoiesis by secreting SCF. Nature Cell Biology, 2017, 19, 891-903.	4.6	359
32	Leptin Receptor Promotes Adipogenesis and Reduces Osteogenesis by Regulating Mesenchymal Stromal Cells in Adult Bone Marrow. Cell Stem Cell, 2016, 18, 782-796.	5.2	346
33	Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. Nature, 2014, 505, 555-558.	13.7	308
34	Metabolic heterogeneity confers differences in melanoma metastatic potential. Nature, 2020, 577, 115-120.	13.7	298
35	Mechanisms that Regulate Stem Cell Aging and Life Span. Cell Stem Cell, 2013, 12, 152-165.	5.2	289
36	Neural crest stem cells undergo multilineage differentiation in developing peripheral nerves to generate endoneurial fibroblasts in addition to Schwann cells. Development (Cambridge), 2004, 131, 5599-5612.	1.2	285

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37	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. Cancer Cell, 2015, 27, 755-768.	7.7	216
38	A perisinusoidal niche for extramedullary haematopoiesis in the spleen. Nature, 2015, 527, 466-471.	13.7	207
39	Cancer, Oxidative Stress, and Metastasis. Cold Spring Harbor Symposia on Quantitative Biology, 2016, 81, 163-175.	2.0	200
40	Prdm16 promotes stem cell maintenance in multiple tissues, partly by regulating oxidative stress. Nature Cell Biology, 2010, 12, 999-1006.	4.6	192
41	Temporal Changes in PTEN and mTORC2 Regulation of Hematopoietic Stem Cell Self-Renewal and Leukemia Suppression. Cell Stem Cell, 2012, 11, 415-428.	5.2	177
42	Cellular Differences in Protein Synthesis Regulate Tissue Homeostasis. Cell, 2014, 159, 242-251.	13.5	177
43	mTOR Activation Induces Tumor Suppressors that Inhibit Leukemogenesis and Deplete Hematopoietic Stem Cells after Pten Deletion. Cell Stem Cell, 2010, 7, 593-605.	5.2	175
44	Lens regeneration using endogenous stem cells with gain of visual function. Nature, 2016, 531, 323-328.	13.7	171
45	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. Nature, 2021, 591, 438-444.	13.7	158
46	Infection Mobilizes Hematopoietic Stem Cells through Cooperative NOD-like Receptor and Toll-like Receptor Signaling. Cell Host and Microbe, 2014, 15, 779-791.	5.1	149
47	Hematopoietic stem and progenitor cells regulate the regeneration of their niche by secreting Angiopoietin-1. ELife, 2015, 4, e05521.	2.8	140
48	Restricted Hematopoietic Progenitors and Erythropoiesis Require SCF from Leptin Receptor+ Niche Cells in the Bone Marrow. Cell Stem Cell, 2019, 24, 477-486.e6.	5.2	129
49	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. Nature Methods, 2019, 16, 1109-1113.	9.0	128
50	Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain. ELife, 2014, 3, e02669.	2.8	128
51	Niches that regulate stem cells and hematopoiesis in adult bone marrow. Developmental Cell, 2021, 56, 1848-1860.	3.1	116
52	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. Cancer Discovery, 2019, 9, 1228-1247.	7.7	107
53	HIV-1 Utilizes the CXCR4 Chemokine Receptor to Infect Multipotent Hematopoietic Stem and Progenitor Cells. Cell Host and Microbe, 2011, 9, 223-234.	5.1	103
54	In-Depth Evaluation of a Case of Presumed Myocarditis After the Second Dose of COVID-19 mRNA Vaccine. Circulation, 2021, 144, 487-498.	1.6	102

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55	Oncogenic Nras has bimodal effects on stem cells that sustainably increase competitiveness. Nature, 2013, 504, 143-147.	13.7	101
56	Human Melanoma Metastasis in NSG Mice Correlates with Clinical Outcome in Patients. Science Translational Medicine, 2012, 4, 159ra149.	5.8	98
57	The rate of protein synthesis in hematopoietic stem cells is limited partly by 4E-BPs. Genes and Development, 2016, 30, 1698-1703.	2.7	91
58	Toward an Understanding of the Physiological Function of Mammalian Stem Cells. Developmental Cell, 2005, 9, 173-183.	3.1	89
59	Clec11a/osteolectin is an osteogenic growth factor that promotes the maintenance of the adult skeleton. ELife, 2016, 5, .	2.8	87
60	PHGDH heterogeneity potentiates cancerÂcell dissemination and metastasis. Nature, 2022, 605, 747-753.	13.7	77
61	Cell size is a determinant of stem cell potential during aging. Science Advances, 2021, 7, eabk0271.	4.7	75
62	Bmi-1 over-expression in neural stem/progenitor cells increases proliferation and neurogenesis in culture but has little effect on these functions in vivo. Developmental Biology, 2009, 328, 257-272.	0.9	73
63	Prdm16 is required for the maintenance of neural stem cells in the postnatal forebrain and their differentiation into ependymal cells. Genes and Development, 2017, 31, 1134-1146.	2.7	69
64	Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. ELife, 2019, 8, .	2.8	66
65	Redox Regulation in Cancer Cells during Metastasis. Cancer Discovery, 2021, 11, 2682-2692.	7.7	64
66	CD150â˜ cells are transiently reconstituting multipotent progenitors with little or no stem cell activity. Blood, 2008, 111, 4413-4414.	0.6	54
67	Precise let-7 expression levels balance organ regeneration against tumor suppression. ELife, 2015, 4, e09431.	2.8	53
68	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. ELife, 2021, 10, .	2.8	47
69	Compartmentalized metabolism supports midgestation mammalian development. Nature, 2022, 604, 349-353.	13.7	47
70	TLR9 and beclinÂ1 crosstalk regulates muscle AMPK activation in exercise. Nature, 2020, 578, 605-609.	13.7	46
71	Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. Nature Communications, 2016, 7, 12336.	5.8	43
72	CD4 is expressed on a heterogeneous subset of hematopoietic progenitors, which persistently harbor CXCR4 and CCR5-tropic HIV proviral genomes in vivo. PLoS Pathogens, 2017, 13, e1006509.	2.1	42

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73	Time to do something about reproducibility. ELife, 2014, 3, .	2.8	42
74	Stable isotope tracing to assess tumor metabolism in vivo. Nature Protocols, 2021, 16, 5123-5145.	5.5	40
75	27-Hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. Journal of Clinical Investigation, 2017, 127, 3392-3401.	3.9	40
76	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. Science Advances, 2017, 3, eaao5268.	4.7	38
77	Aspartate availability limits hematopoietic stem cell function during hematopoietic regeneration. Cell Stem Cell, 2021, 28, 1982-1999.e8.	5.2	38
78	Digoxin Plus Trametinib Therapy Achieves Disease Control in BRAF Wild-Type Metastatic Melanoma Patients. Neoplasia, 2017, 19, 255-260.	2.3	35
79	Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	35
80	Metabolic regulation of somatic stem cells in vivo. Nature Reviews Molecular Cell Biology, 2022, 23, 428-443.	16.1	35
81	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. Cell Reports, 2019, 28, 2293-2305.e9.	2.9	34
82	Identification of Fibroblast Activation Protein as an Osteogenic Suppressor and Anti-osteoporosis Drug Target. Cell Reports, 2020, 33, 108252.	2.9	30
83	Bmi1 is required for the initiation of pancreatic cancer through an Ink4a-independent mechanism. Carcinogenesis, 2015, 36, 730-738.	1.3	29
84	Distinct Brca1 Mutations Differentially Reduce Hematopoietic Stem Cell Function. Cell Reports, 2017, 18, 947-960.	2.9	25
85	The effect of parathyroid hormone on osteogenesis is mediated partly by osteolectin. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
86	Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation. Nature Cell Biology, 2022, 24, 697-707.	4.6	15
87	Metabolic Adaptation Fuels Lymph Node Metastasis. Cell Metabolism, 2019, 29, 785-786.	7.2	10
88	New guidelines for stem cell and embryo research from the ISSCR. Cell Stem Cell, 2021, 28, 991-992.	5.2	4
89	Stem cells, cancer, and cancer stem cells. , 0, .		3
90	Identifying metabolomic features that predict metastasis of melanoma from a primary site. Cancer & Metabolism, 2014, 2, .	2.4	1

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91	Evaluation of Xie etÂal.: Sphingolipid Modulation Activates Proteostasis Programs to Govern Human Hematopoietic Stem Cell Self-Renewal. Cell Stem Cell, 2019, 25, 585-586.	5.2	0
92	Beth Levine M.D. Prize in Autophagy Research. Autophagy, 2021, 17, 2053-2053.	4.3	0
93	Oncogenic Nras Increases Hematopoietic Stem Cell Proliferation and Self-Renewal Through a Bimodal Effect. Blood, 2012, 120, 119-119.	0.6	0
94	Therapeutic Synergy from Combined Inhibition of the SERCA Channel and MAPK Signaling Pathway in MAPK-Dependent Leukemia. Blood, 2015, 126, 1264-1264.	0.6	0
95	Digoxin plus trametinib therapy of BRAF wild type metastatic melanoma patients.. Journal of Clinical Oncology, 2016, 34, 9527-9527.	0.8	0
96	Reticular Dysgenesis-Associated Adenylate Kinase 2 Deficiency Impairs Hematopoietic Stem and Progenitor Cell Function through Reductive Stress. Blood, 2020, 136, 33-33.	0.6	0