Sean J Morrison

List of Publications by Year
in descending order

98 papers	45,465 citations	19477 61 h-index	40544 94 g-index
114 all docs	114 docs citations	114 times ranked	50439 citing authors

#	Article	IF	Citations
1	Endothelial and Leptin Receptor+ cells promote the maintenance of stem cells and hematopoiesis in early postnatal murine bone marrow. Developmental Cell, 2023, 58, 348-360.e6.	7.0	21
2	Osteolectin increases bone elongation and body length by promoting growth plate chondrocyte proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.6	3
3	Leptin receptor+ cells promote bone marrow innervation and regeneration by synthesizing nerve growth factor. Nature Cell Biology, 2023, 25, 1746-1757.	10.0	14
4	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, .	7.6	44
5	Compartmentalized metabolism supports midgestation mammalian development. Nature, 2022, 604, 349-353.	36.2	59
6	Metabolic regulation of somatic stem cells in vivo. Nature Reviews Molecular Cell Biology, 2022, 23, 428-443.	37.3	39
7	Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation. Nature Cell Biology, 2022, 24, 697-707.	10.0	20
8	PHGDH heterogeneity potentiates cancerÂcell dissemination and metastasis. Nature, 2022, 605, 747-753.	36.2	101
9	In vivo isotope tracing reveals a requirement for the electron transport chain in glucose and glutamine metabolism by tumors. Science Advances, 2022, 8, .	10.9	25
10	Bone marrow and periosteal skeletal stem/progenitor cells make distinct contributions to bone maintenance and repair. Cell Stem Cell, 2022, 29, 1547-1561.e6.	11.0	64
11	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. Nature, 2021, 591, 438-444.	36.2	185
12	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, .	7.6	19
13	New guidelines for stem cell and embryo research from the ISSCR. Cell Stem Cell, 2021, 28, 991-992.	11.0	4
14	Niches that regulate stem cells and hematopoiesis in adult bone marrow. Developmental Cell, 2021, 56, 1848-1860.	7.0	140
15	Beth Levine M.D. Prize in Autophagy Research. Autophagy, 2021, 17, 2053-2053.	11.0	0
16	In-Depth Evaluation of a Case of Presumed Myocarditis After the Second Dose of COVID-19 mRNA Vaccine. Circulation, 2021, 144, 487-498.	9.3	110
17	Aspartate availability limits hematopoietic stem cell function during hematopoietic regeneration. Cell Stem Cell, 2021, 28, 1982-1999.e8.	11.0	49
18	Stable isotope tracing to assess tumor metabolism in vivo. Nature Protocols, 2021, 16, 5123-5145.	12.5	54

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19	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. ELife, 2021, 10, .	5.9	63
20	Redox Regulation in Cancer Cells during Metastasis. Cancer Discovery, 2021, 11, 2682-2692.	14.2	71
21	Cell size is a determinant of stem cell potential during aging. Science Advances, 2021, 7, eabk0271.	10.9	93
22	Metabolic heterogeneity confers differences in melanoma metastatic potential. Nature, 2020, 577, 115-120.	36.2	338
23	Identification of Fibroblast Activation Protein as an Osteogenic Suppressor and Anti-osteoporosis Drug Target. Cell Reports, 2020, 33, 108252.	6.3	36
24	Lymph protects metastasizing melanoma cells from ferroptosis. Nature, 2020, 585, 113-118.	36.2	547
25	TLR9 and beclinÂ1 crosstalk regulates muscle AMPK activation in exercise. Nature, 2020, 578, 605-609.	36.2	48
26	Evaluation of Xie etÂal.: Sphingolipid Modulation Activates Proteostasis Programs to Govern Human Hematopoietic Stem Cell Self-Renewal. Cell Stem Cell, 2019, 25, 585-586.	11.0	0
27	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. Nature Methods, 2019, 16, 1109-1113.	19.6	155
28	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. Cell Reports, 2019, 28, 2293-2305.e9.	6.3	40
29	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. Cancer Discovery, 2019, 9, 1228-1247.	14.2	117
30	Metabolic Adaptation Fuels Lymph Node Metastasis. Cell Metabolism, 2019, 29, 785-786.	15.8	14
31	Restricted Hematopoietic Progenitors and Erythropoiesis Require SCF from Leptin Receptor+ Niche Cells in the Bone Marrow. Cell Stem Cell, 2019, 24, 477-486.e6.	11.0	140
32	Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. ELife, 2019, 8, .	5.9	69
33	Distinct Brca1 Mutations Differentially Reduce Hematopoietic Stem Cell Function. Cell Reports, 2017, 18, 947-960.	6.3	26
34	Adult haematopoietic stem cell niches. Nature Reviews Immunology, 2017, 17, 573-590.	22.5	559
35	Digoxin Plus Trametinib Therapy Achieves Disease Control in BRAF Wild-Type Metastatic Melanoma Patients. Neoplasia, 2017, 19, 255-260.	5.3	39
36	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. Science Advances, 2017, 3, eaao5268.	10.9	39

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37	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. Nature, 2017, 549, 476-481.	36.2	423
38	Bone marrow adipocytes promote the regeneration of stem cells and haematopoiesis by secreting SCF. Nature Cell Biology, 2017, 19, 891-903.	10.0	392
39	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.	5.9	74
40	27-Hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. Journal of Clinical Investigation, 2017, 127, 3392-3401.	8.2	41
41	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.	4.1	43
42	Cancer, Oxidative Stress, and Metastasis. Cold Spring Harbor Symposia on Quantitative Biology, 2016, 81, 163-175.	1.1	218
43	The rate of protein synthesis in hematopoietic stem cells is limited partly by 4E-BPs. Genes and Development, 2016, 30, 1698-1703.	5.9	95
44	Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. Nature Communications, 2016, 7, 12336.	13.2	47
45	Leptin Receptor Promotes Adipogenesis and Reduces Osteogenesis by Regulating Mesenchymal Stromal Cells in Adult Bone Marrow. Cell Stem Cell, 2016, 18, 782-796.	11.0	370
46	Lens regeneration using endogenous stem cells with gain of visual function. Nature, 2016, 531, 323-328.	36.2	176
47	Clec11a/osteolectin is an osteogenic growth factor that promotes the maintenance of the adult skeleton. ELife, 2016, 5, .	5.9	94
48	Hematopoietic stem and progenitor cells regulate the regeneration of their niche by secreting Angiopoietin-1. ELife, 2015, 4, e05521.	5.9	148
49	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. Cancer Cell, 2015, 27, 755-768.	16.8	225
50	A perisinusoidal niche for extramedullary haematopoiesis in the spleen. Nature, 2015, 527, 466-471.	36.2	215
51	Bmi1 is required for the initiation of pancreatic cancer through an Ink4a-independent mechanism. Carcinogenesis, 2015, 36, 730-738.	2.8	29
52	Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. Nature, 2015, 526, 126-130.	36.2	584
53	Oxidative stress inhibits distant metastasis by human melanoma cells. Nature, 2015, 527, 186-191.	36.2	1,004
54	Precise let-7 expression levels balance organ regeneration against tumor suppression. ELife, 2015, 4, e09431.	5.9	55

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55	Therapeutic Synergy from Combined Inhibition of the SERCA Channel and MAPK Signaling Pathway in MAPK-Dependent Leukemia. Blood, 2015, 126, 1264-1264.	1.4	0
56	Haematopoietic stem cells require a highly regulated protein synthesis rate. Nature, 2014, 509, 49-54.	36.2	548
57	Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. Nature, 2014, 505, 555-558.	36.2	322
58	The bone marrow niche for haematopoietic stem cells. Nature, 2014, 505, 327-334.	36.2	1,977
59	Cellular Differences in Protein Synthesis Regulate Tissue Homeostasis. Cell, 2014, 159, 242-251.	27.8	183
60	Leptin-Receptor-Expressing Mesenchymal Stromal Cells Represent the Main Source of Bone Formed by Adult Bone Marrow. Cell Stem Cell, 2014, 15, 154-168.	11.0	1,098
61	Infection Mobilizes Hematopoietic Stem Cells through Cooperative NOD-like Receptor and Toll-like Receptor Signaling. Cell Host and Microbe, 2014, 15, 779-791.	11.0	160
62	Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain. ELife, 2014, 3, e02669.	5.9	133
63	Time to do something about reproducibility. ELife, 2014, 3, .	5.9	43
64	SLAM Family Markers Resolve Functionally Distinct Subpopulations of Hematopoietic Stem Cells and Multipotent Progenitors. Cell Stem Cell, 2013, 13, 102-116.	11.0	534
65	Oncogenic Nras has bimodal effects on stem cells that sustainably increase competitiveness. Nature, 2013, 504, 143-147.	36.2	105
66	Mechanisms that Regulate Stem Cell Aging and Life Span. Cell Stem Cell, 2013, 12, 152-165.	11.0	294
67	Haematopoietic stem cells and early lymphoid progenitors occupy distinct bone marrow niches. Nature, 2013, 495, 231-235.	36.2	1,059
68	Temporal Changes in PTEN and mTORC2 Regulation of Hematopoietic Stem Cell Self-Renewal and Leukemia Suppression. Cell Stem Cell, 2012, 11, 415-428.	11.0	181
69	Endothelial and perivascular cells maintain haematopoietic stem cells. Nature, 2012, 481, 457-462.	36.2	1,667
70	Human Melanoma Metastasis in NSG Mice Correlates with Clinical Outcome in Patients. Science Translational Medicine, 2012, 4, 159ra149.	13.4	101
71	Oncogenic Nras Increases Hematopoietic Stem Cell Proliferation and Self-Renewal Through a Bimodal Effect. Blood, 2012, 120, 119-119.	1.4	0
72	HIV-1 Utilizes the CXCR4 Chemokine Receptor to Infect Multipotent Hematopoietic Stem and Progenitor Cells. Cell Host and Microbe, 2011, 9, 223-234.	11.0	105

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73	Phenotypic Heterogeneity among Tumorigenic Melanoma Cells from Patients that Is Reversible and Not Hierarchically Organized. Cancer Cell, 2010, 18, 510-523.	16.8	564
74	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. Nature, 2010, 468, 653-658.	36.2	462
75	Prdm16 promotes stem cell maintenance in multiple tissues, partly by regulating oxidative stress. Nature Cell Biology, 2010, 12, 999-1006.	10.0	195
76	mTOR Activation Induces Tumor Suppressors that Inhibit Leukemogenesis and Deplete Hematopoietic Stem Cells after Pten Deletion. Cell Stem Cell, 2010, 7, 593-605.	11.0	179
77	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.	2.1	74
78	Mechanisms of Stem Cell Self-Renewal. Annual Review of Cell and Developmental Biology, 2009, 25, 377-406.	9.4	515
79	Efficient tumour formation by single human melanoma cells. Nature, 2008, 456, 593-598.	36.2	1,687
80	Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. Cell, 2008, 132, 598-611.	27.8	1,738
81	Hmga2 Promotes Neural Stem Cell Self-Renewal in Young but Not Old Mice by Reducing p16Ink4a and p19Arf Expression. Cell, 2008, 135, 227-239.	27.8	561
82	CD150â˜ cells are transiently reconstituting multipotent progenitors with little or no stem cell activity. Blood, 2008, 111, 4413-4414.	1.4	55
83	Pten dependence distinguishes haematopoietic stem cells from leukaemia-initiating cells. Nature, 2006, 441, 475-482.	36.2	1,222
84	Asymmetric and symmetric stem-cell divisions in development and cancer. Nature, 2006, 441, 1068-1074.	36.2	1,248
85	Increasing p16INK4a expression decreases forebrain progenitors and neurogenesis during ageing. Nature, 2006, 443, 448-452.	36.2	902
86	Bmi-1 promotes neural stem cell self-renewal and neural development but not mouse growth and survival by repressing the p16^{Ink4a} and p19^{Arf} senescence pathways. Genes and Development, 2005, 19, 1432-1437.	5.9	540
87	SLAM Family Receptors Distinguish Hematopoietic Stem and Progenitor Cells and Reveal Endothelial Niches for Stem Cells. Cell, 2005, 121, 1109-1121.	27.8	2,850
88	Toward an Understanding of the Physiological Function of Mammalian Stem Cells. Developmental Cell, 2005, 9, 173-183.	7.0	89
89	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.	2.6	297
90	Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. Nature, 2003, 423, 302-305.	36.2	1,779

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91	Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation. Nature, 2003, 425, 962-967.	36.2	1,227
92	Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes. Nature, 2003, 425, 968-973.	36.2	1,556
93	Stem cells, cancer, and cancer stem cells. Nature, 2001, 414, 105-111.	36.2	8,773
94	Culture in Reduced Levels of Oxygen Promotes Clonogenic Sympathoadrenal Differentiation by Isolated Neural Crest Stem Cells. Journal of Neuroscience, 2000, 20, 7370-7376.	3.8	368
95	Transient Notch Activation Initiates an Irreversible Switch from Neurogenesis to Gliogenesis by Neural Crest Stem Cells. Cell, 2000, 101, 499-510.	27.8	679
96	The aging of hematopoietic stem cells. Nature Medicine, 1996, 2, 1011-1016.	30.1	806
97	The long-term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. Immunity, 1994, 1, 661-673.	14.2	986
98	Stem cells, cancer, and cancer stem cells. Nature, 0, .	36.2	3