Sean J Morrison

List of Publications by Year
in descending order

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Version: 2024-02-01

96 papers	44,056 citations	20759 60 h-index	46693 89 g-index
109 all docs	109 docs citations	109 times ranked	44201 citing authors

#	Article	IF	Citations
1	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
2	Compartmentalized metabolism supports midgestation mammalian development. Nature, 2022, 604, 349-353.	13.7	47
3	Metabolic regulation of somatic stem cells in vivo. Nature Reviews Molecular Cell Biology, 2022, 23, 428-443.	16.1	35
4	Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation. Nature Cell Biology, 2022, 24, 697-707.	4.6	15
5	PHGDH heterogeneity potentiates cancerÂcell dissemination and metastasis. Nature, 2022, 605, 747-753.	13.7	77
6	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. Nature, 2021, 591, 438-444.	13.7	158
7	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
8	New guidelines for stem cell and embryo research from the ISSCR. Cell Stem Cell, 2021, 28, 991-992.	5.2	4
9	Niches that regulate stem cells and hematopoiesis in adult bone marrow. Developmental Cell, 2021, 56, 1848-1860.	3.1	116
10	Beth Levine M.D. Prize in Autophagy Research. Autophagy, 2021, 17, 2053-2053.	4.3	0
11	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
12	Aspartate availability limits hematopoietic stem cell function during hematopoietic regeneration. Cell Stem Cell, 2021, 28, 1982-1999.e8.	5.2	38
13	Stable isotope tracing to assess tumor metabolism in vivo. Nature Protocols, 2021, 16, 5123-5145.	5.5	40
14	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. ELife, 2021, 10, .	2.8	47
15	Redox Regulation in Cancer Cells during Metastasis. Cancer Discovery, 2021, 11, 2682-2692.	7.7	64
16	Cell size is a determinant of stem cell potential during aging. Science Advances, 2021, 7, eabk0271.	4.7	75
17	Metabolic heterogeneity confers differences in melanoma metastatic potential. Nature, 2020, 577, 115-120.	13.7	298
18	Identification of Fibroblast Activation Protein as an Osteogenic Suppressor and Anti-osteoporosis Drug Target. Cell Reports, 2020, 33, 108252.	2.9	30

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19	Lymph protects metastasizing melanoma cells from ferroptosis. Nature, 2020, 585, 113-118.	13.7	484
20	TLR9 and beclinÂ1 crosstalk regulates muscle AMPK activation in exercise. Nature, 2020, 578, 605-609.	13.7	46
21	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
22	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
23	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. Nature Methods, 2019, 16, 1109-1113.	9.0	128
24	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. Cell Reports, 2019, 28, 2293-2305.e9.	2.9	34
25	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. Cancer Discovery, 2019, 9, 1228-1247.	7.7	107
26	Metabolic Adaptation Fuels Lymph Node Metastasis. Cell Metabolism, 2019, 29, 785-786.	7.2	10
27	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
28	Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. ELife, 2019, 8, .	2.8	66
29	Distinct Brca1 Mutations Differentially Reduce Hematopoietic Stem Cell Function. Cell Reports, 2017, 18, 947-960.	2.9	25
30	Adult haematopoietic stem cell niches. Nature Reviews Immunology, 2017, 17, 573-590.	10.6	528
31	Digoxin Plus Trametinib Therapy Achieves Disease Control in BRAF Wild-Type Metastatic Melanoma Patients. Neoplasia, 2017, 19, 255-260.	2.3	35
32	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
33	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. Nature, 2017, 549, 476-481.	13.7	398
34	Bone marrow adipocytes promote the regeneration of stem cells and haematopoiesis by secreting SCF. Nature Cell Biology, 2017, 19, 891-903.	4.6	359
35	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
36	27-Hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. Journal of Clinical Investigation, 2017, 127, 3392-3401.	3.9	40

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37	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
38	Cancer, Oxidative Stress, and Metastasis. Cold Spring Harbor Symposia on Quantitative Biology, 2016, 81, 163-175.	2.0	200
39	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
40	Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. Nature Communications, 2016, 7, 12336.	5.8	43
41	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
42	Lens regeneration using endogenous stem cells with gain of visual function. Nature, 2016, 531, 323-328.	13.7	171
43	Clec11a/osteolectin is an osteogenic growth factor that promotes the maintenance of the adult skeleton. ELife, 2016, 5, .	2.8	87
44	Digoxin plus trametinib therapy of BRAF wild type metastatic melanoma patients.. Journal of Clinical Oncology, 2016, 34, 9527-9527.	0.8	0
45	Hematopoietic stem and progenitor cells regulate the regeneration of their niche by secreting Angiopoietin-1. ELife, 2015, 4, e05521.	2.8	140
46	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. Cancer Cell, 2015, 27, 755-768.	7.7	216
47	A perisinusoidal niche for extramedullary haematopoiesis in the spleen. Nature, 2015, 527, 466-471.	13.7	207
48	Bmi1 is required for the initiation of pancreatic cancer through an Ink4a-independent mechanism. Carcinogenesis, 2015, 36, 730-738.	1.3	29
49	Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. Nature, 2015, 526, 126-130.	13.7	564
50	Oxidative stress inhibits distant metastasis by human melanoma cells. Nature, 2015, 527, 186-191.	13.7	964
51	Precise let-7 expression levels balance organ regeneration against tumor suppression. ELife, 2015, 4, e09431.	2.8	53
52	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
53	Haematopoietic stem cells require a highly regulated protein synthesis rate. Nature, 2014, 509, 49-54.	13.7	522
54	Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. Nature, 2014, 505, 555-558.	13.7	308

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55	The bone marrow niche for haematopoietic stem cells. Nature, 2014, 505, 327-334.	13.7	1,910
56	Cellular Differences in Protein Synthesis Regulate Tissue Homeostasis. Cell, 2014, 159, 242-251.	13.5	177
57	Identifying metabolomic features that predict metastasis of melanoma from a primary site. Cancer & Metabolism, 2014, 2, .	2.4	1
58	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
59	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
60	Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain. ELife, 2014, 3, e02669.	2.8	128
61	Time to do something about reproducibility. ELife, 2014, 3, .	2.8	42
62	SLAM Family Markers Resolve Functionally Distinct Subpopulations of Hematopoietic Stem Cells and Multipotent Progenitors. Cell Stem Cell, 2013, 13, 102-116.	5.2	521
63	Oncogenic Nras has bimodal effects on stem cells that sustainably increase competitiveness. Nature, 2013, 504, 143-147.	13.7	101
64	Mechanisms that Regulate Stem Cell Aging and Life Span. Cell Stem Cell, 2013, 12, 152-165.	5.2	289
65	Haematopoietic stem cells and early lymphoid progenitors occupy distinct bone marrow niches. Nature, 2013, 495, 231-235.	13.7	1,017
66	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
67	Endothelial and perivascular cells maintain haematopoietic stem cells. Nature, 2012, 481, 457-462.	13.7	1,617
68	Human Melanoma Metastasis in NSG Mice Correlates with Clinical Outcome in Patients. Science Translational Medicine, 2012, 4, 159ra149.	5.8	98
69	Oncogenic Nras Increases Hematopoietic Stem Cell Proliferation and Self-Renewal Through a Bimodal Effect. Blood, 2012, 120, 119-119.	0.6	0
70	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
71	Phenotypic Heterogeneity among Tumorigenic Melanoma Cells from Patients that Is Reversible and Not Hierarchically Organized. Cancer Cell, 2010, 18, 510-523.	7.7	555
72	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. Nature, 2010, 468, 653-658.	13.7	446

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73	Prdm16 promotes stem cell maintenance in multiple tissues, partly by regulating oxidative stress. Nature Cell Biology, 2010, 12, 999-1006.	4.6	192
74	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
75	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
76	Mechanisms of Stem Cell Self-Renewal. Annual Review of Cell and Developmental Biology, 2009, 25, 377-406.	4.0	503
77	Efficient tumour formation by single human melanoma cells. Nature, 2008, 456, 593-598.	13.7	1,674
78	Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. Cell, 2008, 132, 598-611.	13.5	1,706
79	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
80	CD150â˜ cells are transiently reconstituting multipotent progenitors with little or no stem cell activity. Blood, 2008, 111, 4413-4414.	0.6	54
81	Pten dependence distinguishes haematopoietic stem cells from leukaemia-initiating cells. Nature, 2006, 441, 475-482.	13.7	1,217
82	Asymmetric and symmetric stem-cell divisions in development and cancer. Nature, 2006, 441, 1068-1074.	13.7	1,220
83	Increasing p16INK4a expression decreases forebrain progenitors and neurogenesis during ageing. Nature, 2006, 443, 448-452.	13.7	895
84	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
85	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
86	Toward an Understanding of the Physiological Function of Mammalian Stem Cells. Developmental Cell, 2005, 9, 173-183.	3.1	89
87	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
88	Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. Nature, 2003, 423, 302-305.	13.7	1,768
89	Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation. Nature, 2003, 425, 962-967.	13.7	1,217
90	Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes. Nature, 2003, 425, 968-973.	13.7	1,545

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91	Stem cells, cancer, and cancer stem cells. Nature, 2001, 414, 105-111.	13.7	8,665
92	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
93	Transient Notch Activation Initiates an Irreversible Switch from Neurogenesis to Gliogenesis by Neural Crest Stem Cells. Cell, 2000, 101, 499-510.	13.5	674
94	The aging of hematopoietic stem cells. Nature Medicine, 1996, 2, 1011-1016.	15.2	790
95	The long-term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. Immunity, 1994, 1, 661-673.	6.6	976
96	Stem cells, cancer, and cancer stem cells. , 0, .		3