

Sean J Morrison

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/7941260/publications.pdf](https://exaly.com/author-pdf/7941260/publications.pdf)

Version: 2024-02-01

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	Stem cells, cancer, and cancer stem cells. <i>Nature</i> , 2001, 414, 105-111.	36.2	8,773
2	SLAM Family Receptors Distinguish Hematopoietic Stem and Progenitor Cells and Reveal Endothelial Niches for Stem Cells. <i>Cell</i> , 2005, 121, 1109-1121.	27.8	2,850
3	The bone marrow niche for haematopoietic stem cells. <i>Nature</i> , 2014, 505, 327-334.	36.2	1,977
4	Bmi-1 is required for maintenance of adult self-renewing haematopoietic stem cells. <i>Nature</i> , 2003, 423, 302-305.	36.2	1,779
5	Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. <i>Cell</i> , 2008, 132, 598-611.	27.8	1,738
6	Efficient tumour formation by single human melanoma cells. <i>Nature</i> , 2008, 456, 593-598.	36.2	1,687
7	Endothelial and perivascular cells maintain haematopoietic stem cells. <i>Nature</i> , 2012, 481, 457-462.	36.2	1,667
8	Fusion of bone-marrow-derived cells with Purkinje neurons, cardiomyocytes and hepatocytes. <i>Nature</i> , 2003, 425, 968-973.	36.2	1,556
9	Asymmetric and symmetric stem-cell divisions in development and cancer. <i>Nature</i> , 2006, 441, 1068-1074.	36.2	1,248
10	Bmi-1 dependence distinguishes neural stem cell self-renewal from progenitor proliferation. <i>Nature</i> , 2003, 425, 962-967.	36.2	1,227
11	Pten dependence distinguishes haematopoietic stem cells from leukaemia-initiating cells. <i>Nature</i> , 2006, 441, 475-482.	36.2	1,222
12	Leptin-Receptor-Expressing Mesenchymal Stromal Cells Represent the Main Source of Bone Formed by Adult Bone Marrow. <i>Cell Stem Cell</i> , 2014, 15, 154-168.	11.0	1,098
13	Haematopoietic stem cells and early lymphoid progenitors occupy distinct bone marrow niches. <i>Nature</i> , 2013, 495, 231-235.	36.2	1,059
14	Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015, 527, 186-191.	36.2	1,004
15	The long-term repopulating subset of hematopoietic stem cells is deterministic and isolatable by phenotype. <i>Immunity</i> , 1994, 1, 661-673.	14.2	986
16	Increasing p16INK4a expression decreases forebrain progenitors and neurogenesis during ageing. <i>Nature</i> , 2006, 443, 448-452.	36.2	902
17	The aging of hematopoietic stem cells. <i>Nature Medicine</i> , 1996, 2, 1011-1016.	30.1	806
18	Transient Notch Activation Initiates an Irreversible Switch from Neurogenesis to Gliogenesis by Neural Crest Stem Cells. <i>Cell</i> , 2000, 101, 499-510.	27.8	679

#	ARTICLE	IF	CITATIONS
19	Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. <i>Nature</i> , 2015, 526, 126-130.	36.2	584
20	Phenotypic Heterogeneity among Tumorigenic Melanoma Cells from Patients that Is Reversible and Not Hierarchically Organized. <i>Cancer Cell</i> , 2010, 18, 510-523.	16.8	564
21	Hmga2 Promotes Neural Stem Cell Self-Renewal in Young but Not Old Mice by Reducing p16Ink4a and p19Arf Expression. <i>Cell</i> , 2008, 135, 227-239.	27.8	561
22	Adult haematopoietic stem cell niches. <i>Nature Reviews Immunology</i> , 2017, 17, 573-590.	22.5	559
23	Haematopoietic stem cells require a highly regulated protein synthesis rate. <i>Nature</i> , 2014, 509, 49-54.	36.2	548
24	Lymph protects metastasizing melanoma cells from ferroptosis. <i>Nature</i> , 2020, 585, 113-118.	36.2	547
25	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. <i>Genes and Development</i> , 2005, 19, 1432-1437.	5.9	540
26	SLAM Family Markers Resolve Functionally Distinct Subpopulations of Hematopoietic Stem Cells and Multipotent Progenitors. <i>Cell Stem Cell</i> , 2013, 13, 102-116.	11.0	534
27	Mechanisms of Stem Cell Self-Renewal. <i>Annual Review of Cell and Developmental Biology</i> , 2009, 25, 377-406.	9.4	515
28	Lkb1 regulates cell cycle and energy metabolism in haematopoietic stem cells. <i>Nature</i> , 2010, 468, 653-658.	36.2	462
29	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017, 549, 476-481.	36.2	423
30	Bone marrow adipocytes promote the regeneration of stem cells and haematopoiesis by secreting SCF. <i>Nature Cell Biology</i> , 2017, 19, 891-903.	10.0	392
31	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.	11.0	370
32	Culture in Reduced Levels of Oxygen Promotes Clonogenic Sympathoadrenal Differentiation by Isolated Neural Crest Stem Cells. <i>Journal of Neuroscience</i> , 2000, 20, 7370-7376.	3.8	368
33	Metabolic heterogeneity confers differences in melanoma metastatic potential. <i>Nature</i> , 2020, 577, 115-120.	36.2	338
34	Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. <i>Nature</i> , 2014, 505, 555-558.	36.2	322
35	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, 5599-5612.	2.6	297
36	Mechanisms that Regulate Stem Cell Aging and Life Span. <i>Cell Stem Cell</i> , 2013, 12, 152-165.	11.0	294

#	ARTICLE	IF	CITATIONS
37	CXCL12-Producing Vascular Endothelial Niches Control Acute T Cell Leukemia Maintenance. <i>Cancer Cell</i> , 2015, 27, 755-768.	16.8	225
38	Cancer, Oxidative Stress, and Metastasis. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016, 81, 163-175.	1.1	218
39	A perisinusoidal niche for extramedullary haematopoiesis in the spleen. <i>Nature</i> , 2015, 527, 466-471.	36.2	215
40	Prdm16 promotes stem cell maintenance in multiple tissues, partly by regulating oxidative stress. <i>Nature Cell Biology</i> , 2010, 12, 999-1006.	10.0	195
41	A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. <i>Nature</i> , 2021, 591, 438-444.	36.2	185
42	Cellular Differences in Protein Synthesis Regulate Tissue Homeostasis. <i>Cell</i> , 2014, 159, 242-251.	27.8	183
43	Temporal Changes in PTEN and mTORC2 Regulation of Hematopoietic Stem Cell Self-Renewal and Leukemia Suppression. <i>Cell Stem Cell</i> , 2012, 11, 415-428.	11.0	181
44	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.	11.0	179
45	Lens regeneration using endogenous stem cells with gain of visual function. <i>Nature</i> , 2016, 531, 323-328.	36.2	176
46	Infection Mobilizes Hematopoietic Stem Cells through Cooperative NOD-like Receptor and Toll-like Receptor Signaling. <i>Cell Host and Microbe</i> , 2014, 15, 779-791.	11.0	160
47	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. <i>Nature Methods</i> , 2019, 16, 1109-1113.	19.6	155
48	Hematopoietic stem and progenitor cells regulate the regeneration of their niche by secreting Angiopoietin-1. <i>ELife</i> , 2015, 4, e05521.	5.9	148
49	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.	11.0	140
50	Niches that regulate stem cells and hematopoiesis in adult bone marrow. <i>Developmental Cell</i> , 2021, 56, 1848-1860.	7.0	140
51	Prospective identification of functionally distinct stem cells and neurosphere-initiating cells in adult mouse forebrain. <i>ELife</i> , 2014, 3, e02669.	5.9	133
52	Loss of EZH2 Reprograms BCAA Metabolism to Drive Leukemic Transformation. <i>Cancer Discovery</i> , 2019, 9, 1228-1247.	14.2	117
53	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.	9.3	110
54	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.	11.0	105

#	ARTICLE	IF	CITATIONS
55	Oncogenic Nras has bimodal effects on stem cells that sustainably increase competitiveness. <i>Nature</i> , 2013, 504, 143-147.	36.2	105
56	Human Melanoma Metastasis in NSG Mice Correlates with Clinical Outcome in Patients. <i>Science Translational Medicine</i> , 2012, 4, 159ra149.	13.4	101
57	PHGDH heterogeneity potentiates cancer cell dissemination and metastasis. <i>Nature</i> , 2022, 605, 747-753.	36.2	101
58	The rate of protein synthesis in hematopoietic stem cells is limited partly by 4E-BPs. <i>Genes and Development</i> , 2016, 30, 1698-1703.	5.9	95
59	Clec11a/osteolectin is an osteogenic growth factor that promotes the maintenance of the adult skeleton. <i>ELife</i> , 2016, 5, .	5.9	94
60	Cell size is a determinant of stem cell potential during aging. <i>Science Advances</i> , 2021, 7, eabk0271.	10.9	93
61	Toward an Understanding of the Physiological Function of Mammalian Stem Cells. <i>Developmental Cell</i> , 2005, 9, 173-183.	7.0	89
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. <i>Developmental Biology</i> , 2009, 328, 257-272.	2.1	74
63	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.	5.9	74
64	Redox Regulation in Cancer Cells during Metastasis. <i>Cancer Discovery</i> , 2021, 11, 2682-2692.	14.2	71
65	Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. <i>ELife</i> , 2019, 8, .	5.9	69
66	Bone marrow and periosteal skeletal stem/progenitor cells make distinct contributions to bone maintenance and repair. <i>Cell Stem Cell</i> , 2022, 29, 1547-1561.e6.	11.0	64
67	Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. <i>ELife</i> , 2021, 10, .	5.9	63
68	Compartmentalized metabolism supports midgestation mammalian development. <i>Nature</i> , 2022, 604, 349-353.	36.2	59
69	CD150 ^{hi} cells are transiently reconstituting multipotent progenitors with little or no stem cell activity. <i>Blood</i> , 2008, 111, 4413-4414.	1.4	55
70	Precise let-7 expression levels balance organ regeneration against tumor suppression. <i>ELife</i> , 2015, 4, e09431.	5.9	55
71	Stable isotope tracing to assess tumor metabolism in vivo. <i>Nature Protocols</i> , 2021, 16, 5123-5145.	12.5	54
72	Aspartate availability limits hematopoietic stem cell function during hematopoietic regeneration. <i>Cell Stem Cell</i> , 2021, 28, 1982-1999.e8.	11.0	49

#	ARTICLE	IF	CITATIONS
73	TLR9 and beclin1 crosstalk regulates muscle AMPK activation in exercise. <i>Nature</i> , 2020, 578, 605-609.	36.2	48
74	Synergistic effects of ion transporter and MAP kinase pathway inhibitors in melanoma. <i>Nature Communications</i> , 2016, 7, 12336.	13.2	47
75	Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.6	44
76	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.	4.1	43
77	Time to do something about reproducibility. <i>ELife</i> , 2014, 3, .	5.9	43
78	27-Hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3392-3401.	8.2	41
79	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. <i>Cell Reports</i> , 2019, 28, 2293-2305.e9.	6.3	40
80	Digoxin Plus Trametinib Therapy Achieves Disease Control in BRAF Wild-Type Metastatic Melanoma Patients. <i>Neoplasia</i> , 2017, 19, 255-260.	5.3	39
81	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017, 3, eaao5268.	10.9	39
82	Metabolic regulation of somatic stem cells in vivo. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 428-443.	37.3	39
83	Identification of Fibroblast Activation Protein as an Osteogenic Suppressor and Anti-osteoporosis Drug Target. <i>Cell Reports</i> , 2020, 33, 108252.	6.3	36
84	Bmi1 is required for the initiation of pancreatic cancer through an Ink4a-independent mechanism. <i>Carcinogenesis</i> , 2015, 36, 730-738.	2.8	29
85	Distinct Brca1 Mutations Differentially Reduce Hematopoietic Stem Cell Function. <i>Cell Reports</i> , 2017, 18, 947-960.	6.3	26
86	In vivo isotope tracing reveals a requirement for the electron transport chain in glucose and glutamine metabolism by tumors. <i>Science Advances</i> , 2022, 8, .	10.9	25
87	Endothelial and Leptin Receptor+ cells promote the maintenance of stem cells and hematopoiesis in early postnatal murine bone marrow. <i>Developmental Cell</i> , 2023, 58, 348-360.e6.	7.0	21
88	Adiponectin receptors sustain haematopoietic stem cells throughout adulthood by protecting them from inflammation. <i>Nature Cell Biology</i> , 2022, 24, 697-707.	10.0	20
89	The effect of parathyroid hormone on osteogenesis is mediated partly by osteolectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	19
90	Metabolic Adaptation Fuels Lymph Node Metastasis. <i>Cell Metabolism</i> , 2019, 29, 785-786.	15.8	14

#	ARTICLE	IF	CITATIONS
91	Leptin receptor+ cells promote bone marrow innervation and regeneration by synthesizing nerve growth factor. <i>Nature Cell Biology</i> , 2023, 25, 1746-1757.	10.0	14
92	New guidelines for stem cell and embryo research from the ISSCR. <i>Cell Stem Cell</i> , 2021, 28, 991-992.	11.0	4
93	Stem cells, cancer, and cancer stem cells. <i>Nature</i> , 0, .	36.2	3
94	Ostelectin increases bone elongation and body length by promoting growth plate chondrocyte proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.6	3
95	Evaluation of Xie etÂal.: Sphingolipid Modulation Activates Proteostasis Programs to Govern Human Hematopoietic Stem Cell Self-Renewal. <i>Cell Stem Cell</i> , 2019, 25, 585-586.	11.0	0
96	Beth Levine M.D. Prize in Autophagy Research. <i>Autophagy</i> , 2021, 17, 2053-2053.	11.0	0
97	Oncogenic Nras Increases Hematopoietic Stem Cell Proliferation and Self-Renewal Through a Bimodal Effect. <i>Blood</i> , 2012, 120, 119-119.	1.4	0
98	Therapeutic Synergy from Combined Inhibition of the SERCA Channel and MAPK Signaling Pathway in MAPK-Dependent Leukemia. <i>Blood</i> , 2015, 126, 1264-1264.	1.4	0