SimÃ³n Nm MÃ©ndez-Ferrer

List of Publications by Year
in descending order

96 papers	9,511 citations	94433 37 h-index	62596 80 g-index
104 all docs	104 docs citations	104 times ranked	12345 citing authors

#	Article	IF	Citations
1	Mesenchymal and haematopoietic stem cells form a unique bone marrow niche. Nature, 2010, 466, 829-834.	27.8	2,935
2	Haematopoietic stem cell release is regulated by circadian oscillations. Nature, 2008, 452, 442-447.	27.8	1,103
3	Bone marrow CD169+ macrophages promote the retention of hematopoietic stem and progenitor cells in the mesenchymal stem cell niche. Journal of Experimental Medicine, 2011, 208, 261-271.	8.5	732
4	Bone Marrow Mesenchymal Stem and Progenitor Cells Induce Monocyte Emigration in Response to Circulating Toll-like Receptor Ligands. Immunity, 2011, 34, 590-601.	14.3	425
5	Neuropathy of haematopoietic stem cell niche is essential for myeloproliferative neoplasms. Nature, 2014, 512, 78-81.	27.8	375
6	Bone marrow niches in haematological malignancies. Nature Reviews Cancer, 2020, 20, 285-298.	28.4	270
7	Diabetes Impairs Hematopoietic Stem Cell Mobilization by Altering Niche Function. Science Translational Medicine, 2011, 3, 104ra101.	12.4	254
8	The neural crest is a source of mesenchymal stem cells with specialized hematopoietic stem cell niche function. ELife, 2014, 3, e03696.	6.0	240
9	Remodeling of Bone Marrow Hematopoietic Stem Cell Niches Promotes Myeloid Cell Expansion during Premature or Physiological Aging. Cell Stem Cell, 2019, 25, 407-418.e6.	11.1	202
10	Cooperation of Î²₂â€•and Î²₃â€•adrenergic receptors in hematopoietic progenitor cell mobilization. Annals of the New York Academy of Sciences, 2010, 1192, 139-144.	3.8	163
11	Resident human cardiac stem cells: role in cardiac cellular homeostasis and potential for myocardial regeneration. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S8-S13.	3.3	150
12	Self-Renewing Human Bone Marrow Mesenspheres Promote Hematopoietic Stem Cell Expansion. Cell Reports, 2013, 3, 1714-1724.	6.4	128
13	Myeloid malignancies and the microenvironment. Blood, 2017, 129, 811-822.	1.4	126
14	Bone Marrow Mesenchymal Stem Cells Support Acute Myeloid Leukemia Bioenergetics and Enhance Antioxidant Defense and Escape from Chemotherapy. Cell Metabolism, 2020, 32, 829-843.e9.	16.2	122
15	Circadian rhythms influence hematopoietic stem cells. Current Opinion in Hematology, 2009, 16, 235-242.	2.5	114
16	Autotransplantation of Human Carotid Body Cell Aggregates for Treatment of Parkinson's Disease. Neurosurgery, 2003, 53, 321-330.	1.1	99
17	Low/Negative Expression of PDGFR-Î± Identifies the Candidate Primary Mesenchymal Stromal Cells in Adult Human Bone Marrow. Stem Cell Reports, 2014, 3, 965-974.	4.8	97
18	Estrogen Signaling Selectively Induces Apoptosis of Hematopoietic Progenitors and Myeloid Neoplasms without Harming Steady-State Hematopoiesis. Cell Stem Cell, 2014, 15, 791-804.	11.1	96

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19	Microenvironmental contributions to hematopoietic stem cell aging. Haematologica, 2020, 105, 38-46.	3.5	94
20	Carotid body autotransplantation in Parkinson disease: a clinical and positron emission tomography study. Journal of Neurology, Neurosurgery and Psychiatry, 2007, 78, 825-831.	1.9	88
21	Haematopoietic stem cells in perisinusoidal niches are protected from ageing. Nature Cell Biology, 2019, 21, 1309-1320.	10.3	88
22	Norepinephrine reuptake inhibition promotes mobilization in mice: potential impact to rescue low stem cell yields. Blood, 2012, 119, 3962-3965.	1.4	86
23	A Novel Systems-Biology Algorithm for the Analysis of Coordinated Protein Responses Using Quantitative Proteomics. Molecular and Cellular Proteomics, 2016, 15, 1740-1760.	3.8	86
24	Daily Onset of Light and Darkness Differentially Controls Hematopoietic Stem Cell Differentiation and Maintenance. Cell Stem Cell, 2018, 23, 572-585.e7.	11.1	86
25	Trophic Restoration of the Nigrostriatal Dopaminergic Pathway in Long-Term Carotid Body-Grafted Parkinsonian Rats. Journal of Neuroscience, 2003, 23, 141-148.	3.6	82
26	The hematopoietic stem-cell niche in health and leukemia. Cellular and Molecular Life Sciences, 2017, 74, 579-590.	5.4	81
27	Bone marrow stem cells: current and emerging concepts. Annals of the New York Academy of Sciences, 2015, 1335, 32-44.	3.8	75
28	Dual cholinergic signals regulate daily migration of hematopoietic stem cells and leukocytes. Blood, 2019, 133, 224-236.	1.4	69
29	Hematopoietic Stem Cell Trafficking. Annals of the New York Academy of Sciences, 2007, 1116, 392-413.	3.8	68
30	Selective Glial Cell Line-Derived Neurotrophic Factor Production in Adult Dopaminergic Carotid Body Cells In Situ and after Intrastriatal Transplantation. Journal of Neuroscience, 2005, 25, 4091-4098.	3.6	62
31	The evolving view of the hematopoietic stem cell niche. Experimental Hematology, 2017, 50, 22-26.	0.4	60
32	Identification of a new water channel (Rp-MIP) in the Malpighian tubules of the insect Rhodnius prolixus. Pflugers Archiv European Journal of Physiology, 2001, 442, 27-34.	2.8	52
33	Notch2 controls non-autonomous Wnt-signalling in chronic lymphocytic leukaemia. Nature Communications, 2018, 9, 3839.	12.8	51
34	Stem Cell Interactions in a Bone Marrow Niche. Current Osteoporosis Reports, 2011, 9, 210-218.	3.6	49
35	Identification of the skeletal progenitor cells forming osteophytes in osteoarthritis. Annals of the Rheumatic Diseases, 2020, 79, 1625-1634.	0.9	48
36	BMSCs and hematopoiesis. Immunology Letters, 2015, 168, 129-135.	2.5	46

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37	Updates on the hematologic tumor microenvironment and its therapeutic targeting. Haematologica, 2019, 104, 1928-1934.	3.5	42
38	Inhibiting stromal cell heparan sulfate synthesis improves stem cell mobilization and enables engraftment without cytotoxic conditioning. Blood, 2014, 124, 2937-2947.	1.4	39
39	Niche derived netrin-1 regulates hematopoietic stem cell dormancy via its receptor neogenin-1. Nature Communications, 2021, 12, 608.	12.8	39
40	Cellular Heterogeneity of Mesenchymal Stem/Stromal Cells in the Bone Marrow. Frontiers in Cell and Developmental Biology, 2021, 9, 689366.	3.7	31
41	The sympathomimetic agonist mirabegron did not lower <i>JAK2</i>-V617F allele burden, but restored nestin-positive cells and reduced reticulin fibrosis in patients with myeloproliferative neoplasms: results of phase II study SAKK 33/14. Haematologica, 2019, 104, 710-716.	3.5	29
42	Sepsis promotes splenic production of a protective platelet pool with high CD40 ligand expression. Journal of Clinical Investigation, 2022, 132, .	8.2	28
43	Dopaminergic cells of the carotid body: physiological significance and possible therapeutic applications in Parkinsonâ€™s disease. Brain Research Bulletin, 2002, 57, 847-853.	3.0	26
44	Stem cell self-renewal: lessons from bone marrow, gut and iPS toward clinical applications. Leukemia, 2011, 25, 1095-1102.	7.2	26
45	Intercapillary bridging cells: Immunocytochemical characteristics of cells that connect blood vessels in the retina. Experimental Eye Research, 2012, 98, 79-87.	2.6	25
46	Cholinergic signals preserve haematopoietic stem cell quiescence during regenerative haematopoiesis. Nature Communications, 2022, 13, 543.	12.8	25
47	Nestin+ cells direct inflammatory cell migration in atherosclerosis. Nature Communications, 2016, 7, 12706.	12.8	23
48	Resident progenitors and bone marrow stem cells in myocardial renewal and repair. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S83-S89.	3.3	22
49	Autonomic regulation of hematopoiesis and cancer. Haematologica, 2013, 98, 1663-1666.	3.5	22
50	Sox17 Controls Emergence and Remodeling of Nestin-Expressing Coronary Vessels. Circulation Research, 2020, 127, e252-e270.	4.5	19
51	A cholinergic neuroskeletal interface promotes bone formation during postnatal growth and exercise. Cell Stem Cell, 2022, 29, 528-544.e9.	11.1	19
52	Primary Linneg/CD45neg/CD271pos/PDGFRÎ±low/Neg Stroma Stem Cells In Adult Human Bone Marrow Show a Distinct Molecular Signature and Potent Hematopoiesis-Supporting Function. Blood, 2013, 122, 3699-3699.	1.4	17
53	Role of VHL, HIF1A and SDH on the expression of miR-210: Implications for tumoral pseudo-hypoxic fate. Oncotarget, 2017, 8, 6700-6717.	1.8	17
54	Mitochondria underlie different metabolism of hematopoietic stem and progenitor cells. Haematologica, 2013, 98, 993-995.	3.5	16

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55	Denatonium as a Bitter Taste Receptor Agonist Modifies Transcriptomic Profile and Functions of Acute Myeloid Leukemia Cells. Frontiers in Oncology, 2020, 10, 1225.	2.8	14
56	Neuronal regulation of bone marrow stem cell niches. F1000Research, 2020, 9, 614.	1.6	14
57	Regulation of hematopoietic progenitors by estrogens as a basis for new antileukemic strategies. Molecular and Cellular Oncology, 2016, 3, e1009728.	0.7	12
58	The Autonomic Nervous System Pulls the Strings to Coordinate Circadian HSC Functions. Frontiers in Immunology, 2020, 11, 956.	4.8	10
59	GÎ±s Uncouples Hematopoietic Stem Cell Homing and Mobilization. Cell Stem Cell, 2009, 4, 379-380.	11.1	9
60	Molecular interactome between HSCs and their niches. Blood, 2019, 134, 1197-1198.	1.4	8
61	Heterotopic ossification in mice overexpressing Bmp2 in Tie2+ lineages. Cell Death and Disease, 2021, 12, 729.	6.3	8
62	Convert and Conquer: The Strategy of Chronic Myelogenous Leukemic Cells. Cancer Cell, 2015, 27, 611-613.	16.8	7
63	Coordinated Regulation of Hematopoietic and Mesenchymal Stem Cells in a Bone Marrow Niche.. Blood, 2009, 114, 2-2.	1.4	6
64	Tumour stem cells in bone. Nature, 2013, 499, 414-416.	27.8	5
65	Mesenchymal Stem Cells, Regulated by the Sympathetic Nervous System, Form the Hematopoietic Stem Cell Niche. Blood, 2008, 112, 4-4.	1.4	5
66	Megakaryocyte Diversity in Ontogeny, Functions and Cell-Cell Interactions. Frontiers in Oncology, 2022, 12, 840044.	2.8	5
67	The bone marrow niche regulates redox and energy balance in MLL::AF9 leukemia stem cells. Leukemia, 2022, 36, 1969-1979.	7.2	5
68	Effects of the Sympathicomimetic Agonist Mirabegron on Disease Course, Mutant Allele Burden, Marrow Fibrosis, and Nestin Positive Stem Cell Niche in Patients with JAK2-Mutated Myeloproliferative Neoplasms. a Prospective Multicenter Phase II Trial SAKK 33/14. Blood, 2016, 128, 3108-3108.	1.4	4
69	Human and mouse leukocytes: different clockwork. Blood, 2017, 130, 1960-1961.	1.4	3
70	Vascular Interstitial Cells in Retinal Arteriolar Annuli Are Altered During Hypertension. , 2019, 60, 473.		3
71	Leukemic Stem Cells Co-Opt Normal Bone Marrow Niches As a Source of Energy and Antioxidant Defence. Blood, 2017, 130, 94-94.	1.4	3
72	Tâ€ALL: several homes rather than homeless?. Immunology and Cell Biology, 2017, 95, 1-2.	2.3	2

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73	Niche Heterogeneity Impacts Evolution of Myeloproliferative Neoplasms Driven By the Same Oncogenic Pathway. Blood, 2018, 132, 98-98.	1.4	2
74	Aging of Bone Marrow Microenvironment Promotes Myeloid Bias of Hematopoietic Progenitors and Is a Target in Age-Related Myeloproliferative Neoplasms. Blood, 2018, 132, 3842-3842.	1.4	2
75	Stem cells â€œaclymatiseâ€•to regenerate the blood system. EMBO Journal, 2022, 41, e110942.	7.8	2
76	Circadian parasympathetic regulation of hematopoietic stem cell traffic. Experimental Hematology, 2013, 41, S14.	0.4	1
77	Multicolor Immunofluorescence Staining of Paraffin-Embedded Human Bone Marrow Sections. Methods in Molecular Biology, 2021, 2308, 119-126.	0.9	1
78	Granulocyte Colony-Stimulating Factor (G-CSF) Stimulates Sympathetic Nervous System Activity in the Bone Marrow. Blood, 2008, 112, 2419-2419.	1.4	1
79	Distinct Bone Marrow Blood Vessels Differentially Regulate Normal and Malignant Hematopoietic Stem and Progenitor Cells. Blood, 2015, 126, 664-664.	1.4	1
80	The EHA Research Roadmap: Normal Hematopoiesis. HemaSphere, 2021, 5, e669.	2.7	1
81	The EHA Research Roadmap: Hematopoietic Stem Cells and Allotransplantation. HemaSphere, 2022, 6, e0714.	2.7	1
82	Novel neuroendocrine regulation of bone marrow stem cells provides potential combined therapeutic targeting of leukaemic stem cells and their microenvironment. Experimental Hematology, 2014, 42, S9.	0.4	0
83	Under Pressure: When a Transformed Environment Pushes Cells to Malignancy. Cell Stem Cell, 2016, 19, 559-560.	11.1	0
84	1008 - CHANGING NEIGHBOURS: BONE MARROW REMODELLING DURING AGING AND AGE-RELATED MYELOPROLIFERATIVE DISORDERS. Experimental Hematology, 2019, 76, S26.	0.4	0
85	Circadian Traffic of Hematopoietic Stem Cells Is Orchestrated by the Molecular Clock and Mediated by Î²3 Adrenergic Signals from the Sympathetic Nervous System.. Blood, 2007, 110, 219-219.	1.4	0
86	CHAPTER 16. Carotid Body Transplants as a Therapy for Parkinsonâ€™s Disease. RSC Drug Discovery Series, 2013, , 363-375.	0.3	0
87	Sympathetic Neuropathy Of The Hematopoietic Stem Cell Niche Is Essential For Myeloproliferative Neoplasms. Blood, 2013, 122, 268-268.	1.4	0
88	Are MSCs Stem Cells? Demonstration of in Vitro and in Vivo Stem Cell Properties of Highly Enriched linneg/CD45neg/CD271pos/CD140alow/Neg Mesenchymal Stromal Cells from Adult Human Bone Marrow. Blood, 2014, 124, 4374-4374.	1.4	0
89	Noncellular Niche Influences: Nervous System Mediators, Metabolic Mediators, and Hypoxia/Oxidative Stress. Blood, 2015, 126, SCI-26-SCI-26.	1.4	0
90	Spatiotemporal Regulation of Hematopoietic Stem Cell Niches By Dual Cholinergic Signaling. Blood, 2015, 126, 662-662.	1.4	0

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91	Abstract IA23: Leukemia development and the microenvironment. , 2016, , .		0
92	Bitter Taste Receptors System Is Expressed and Functional in Both HSCs and Leukemic Cells. Blood, 2018, 132, 2560-2560.	1.4	0
93	Bone Nature and Blood Nurture. , 2020, , 1-8.		0
94	HSCs revive their niche after transplantation. Blood, 2020, 136, 2597-2598.	1.4	0
95	Mesenchymal Stem Cell Aging in the Bone Marrow. , 2020, , 35-42.		0
96	RIG-Ing out BMSCs for hematopoietic recovery after transplantation. Blood, 2022, 139, 3107-3109.	1.4	0