Derrick J Rossi

List of Publications by Year
in descending order

53 papers	13,090 citations	81900 39 h-index	161849 54 g-index
57 all docs	57 docs citations	57 times ranked	18359 citing authors

#	Article	IF	Citations
1	Lineage Tracing Reveals a Subset of Reserve Muscle Stem Cells Capable of Clonal Expansion under Stress. Cell Stem Cell, 2019, 24, 944-957.e5.	11.1	78
2	Selective hematopoietic stem cell ablation using CD117-antibody-drug-conjugates enables safe and effective transplantation with immunity preservation. Nature Communications, 2019, 10, 617.	12.8	130
3	Hematopoietic chimerism and donor-specific skin allograft tolerance after non-genotoxic CD117 antibody-drug-conjugate conditioning in MHC-mismatched allotransplantation. Nature Communications, 2019, 10, 616.	12.8	36
4	Distinct human Î±(1,3)-fucosyltransferases drive Lewis-X/sialyl Lewis-X assembly in human cells. Journal of Biological Chemistry, 2018, 293, 7300-7314.	3.4	61
5	Diminished apoptotic priming and ATM signalling confer a survival advantage onto aged haematopoietic stem cells in response to DNA damage. Nature Cell Biology, 2018, 20, 413-421.	10.3	41
6	A Milieu Molecule for TGF-Î² Required for Microglia Function in the Nervous System. Cell, 2018, 174, 156-171.e16.	28.9	130
7	Targets and genomic constraints of ectopic Dnmt3b expression. ELife, 2018, 7, .	6.0	26
8	Murine HSCs contribute actively to native hematopoiesis but with reduced differentiation capacity upon aging. ELife, 2018, 7, .	6.0	77
9	A Common Origin for B-1a and B-2 Lymphocytes in Clonal Pre- Hematopoietic Stem Cells. Stem Cell Reports, 2017, 8, 1563-1572.	4.8	41
10	ZFP521 regulates murine hematopoietic stem cell function and facilitates MLL-AF9 leukemogenesis in mouse and human cells. Blood, 2017, 130, 619-624.	1.4	20
11	Ectopic expression of RAD52 and dn53BP1 improves homology-directed repair during CRISPRâ€“Cas9 genome editing. Nature Biomedical Engineering, 2017, 1, 878-888.	22.5	83
12	Intracerebroventricular delivery of hematopoietic progenitors results in rapid and robust engraftment of microglia-like cells. Science Advances, 2017, 3, e1701211.	10.3	38
13	mRNA-mediated glycoengineering ameliorates deficient homing of human stem cellâ€“derived hematopoietic progenitors. Journal of Clinical Investigation, 2017, 127, 2433-2437.	8.2	23
14	Glycoengineering of E-Selectin Ligands by Intracellular versus Extracellular Fucosylation Differentially Affects Osteotropism of Human Mesenchymal Stem Cells. Stem Cells, 2016, 34, 2501-2511.	3.2	48
15	DNA Damage and Aging Around the Clock. Trends in Molecular Medicine, 2016, 22, 635-637.	6.7	1
16	Insulin-like growth factor 2 modulates murine hematopoietic stem cell maintenance through upregulation of p57. Experimental Hematology, 2016, 44, 422-433.e1.	0.4	15
17	Loss-of-function mutations in the <i>C9ORF72</i> mouse ortholog cause fatal autoimmune disease. Science Translational Medicine, 2016, 8, 347ra93.	12.4	217
18	Mutant IDH1 Downregulates ATM and Alters DNA Repair and Sensitivity to DNA Damage Independent of TET2. Cancer Cell, 2016, 30, 337-348.	16.8	166

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19	Non-genotoxic conditioning for hematopoietic stem cell transplantation using a hematopoietic-cell-specific internalizing immunotoxin. Nature Biotechnology, 2016, 34, 738-745.	17.5	176
20	Mitotic History Reveals Distinct Stem Cell Populations and Their Contributions to Hematopoiesis. Cell Reports, 2016, 14, 2809-2818.	6.4	55
21	The histone demethylase Jarid1b is required for hematopoietic stem cell self-renewal in mice. Blood, 2015, 125, 2075-2078.	1.4	40
22	Epigenetic Control of Stem Cell Potential during Homeostasis, Aging, and Disease. Cell Stem Cell, 2015, 16, 613-625.	11.1	144
23	Progress and obstacles towards generating hematopoietic stem cells from pluripotent stem cells. Current Opinion in Hematology, 2015, 22, 317-323.	2.5	12
24	Transcription factorâ€mediated reprogramming toward hematopoietic stem cells. EMBO Journal, 2015, 34, 694-709.	7.8	32
25	Two new routes to make blood: Hematopoietic specification from pluripotent cell lines versus reprogramming of somatic cells. Experimental Hematology, 2015, 43, 756-759.	0.4	5
26	Reprogramming Committed Murine Blood Cells to Induced Hematopoietic Stem Cells with Defined Factors. Cell, 2014, 157, 549-564.	28.9	290
27	Efficient Ablation of Genes in Human Hematopoietic Stem and Effector Cells using CRISPR/Cas9. Cell Stem Cell, 2014, 15, 643-652.	11.1	406
28	Genome Editing for Human Gene Therapy. Methods in Enzymology, 2014, 546, 273-295.	1.0	17
29	DNA-damage-induced differentiation of leukaemic cells as an anti-cancer barrier. Nature, 2014, 514, 107-111.	27.8	174
30	Epigenetic regulation of hematopoietic stem cell aging. Experimental Cell Research, 2014, 329, 192-199.	2.6	55
31	Quiescent Hematopoietic Stem Cells Accumulate DNA Damage during Aging that Is Repaired upon Entry into Cell Cycle. Cell Stem Cell, 2014, 15, 37-50.	11.1	373
32	<i>Fgd5</i> identifies hematopoietic stem cells in the murine bone marrow. Journal of Experimental Medicine, 2014, 211, 1315-1331.	8.5	162
33	Growth hormone receptor signaling is dispensable for HSC function and aging. Blood, 2014, 124, 3076-3080.	1.4	17
34	Transcriptome Analysis Identifies Regulators of Hematopoietic Stem and Progenitor Cells. Stem Cell Reports, 2013, 1, 266-280.	4.8	100
35	Proliferation-Dependent Alterations of the DNA Methylation Landscape Underlie Hematopoietic Stem Cell Aging. Cell Stem Cell, 2013, 12, 413-425.	11.1	401
36	Reprogramming human fibroblasts to pluripotency using modified mRNA. Nature Protocols, 2013, 8, 568-582.	12.0	180

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37	Relative Mitochondrial Priming of Myeloblasts and Normal HSCs Determines Chemotherapeutic Success in AML. Cell, 2012, 151, 344-355.	28.9	294
38	DNA Methylation Dynamics during InÂVivo Differentiation of Blood and Skin Stem Cells. Molecular Cell, 2012, 47, 633-647.	9.7	338
39	Gene Expression Commons: An Open Platform for Absolute Gene Expression Profiling. PLoS ONE, 2012, 7, e40321.	2.5	227
40	Human bone marrow hematopoietic stem cells are increased in frequency and myeloid-biased with age. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20012-20017.	7.1	730
41	Stem cells and the aging hematopoietic system. Current Opinion in Immunology, 2010, 22, 500-506.	5.5	157
42	Comprehensive methylome map of lineage commitment from haematopoietic progenitors. Nature, 2010, 467, 338-342.	27.8	554
43	Functionally distinct hematopoietic stem cells modulate hematopoietic lineage potential during aging by a mechanism of clonal expansion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5465-5470.	7.1	578
44	Highly Efficient Reprogramming to Pluripotency and Directed Differentiation of Human Cells with Synthetic Modified mRNA. Cell Stem Cell, 2010, 7, 618-630.	11.1	2,368
45	Niche recycling through division-independent egress of hematopoietic stem cells. Journal of Experimental Medicine, 2009, 206, 2837-2850.	8.5	110
46	Stems Cells and the Pathways to Aging and Cancer. Cell, 2008, 132, 681-696.	28.9	806
47	Hematopoietic Stem Cell Quiescence Attenuates DNA Damage Response and Permits DNA Damage Accumulation During Aging. Cell Cycle, 2007, 6, 2371-2376.	2.6	155
48	Deficiencies in DNA damage repair limit the function of haematopoietic stem cells with age. Nature, 2007, 447, 725-729.	27.8	994
49	Hematopoietic stem cell aging: Mechanism and consequence. Experimental Gerontology, 2007, 42, 385-390.	2.8	127
50	Hematopoietic Stem Cells. American Journal of Pathology, 2006, 169, 338-346.	3.8	579
51	Pten, Tumorigenesis, and Stem Cell Self-Renewal. Cell, 2006, 125, 229-231.	28.9	96
52	Purified hematopoietic stem cell engraftment of rare niches corrects severe lymphoid deficiencies without host conditioning. Journal of Experimental Medicine, 2006, 203, 73-85.	8.5	124
53	Cell intrinsic alterations underlie hematopoietic stem cell aging. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9194-9199.	7.1	972