David G Kent

List of Publications by Year
in descending order

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68 papers	8,262 citations	126907 33 h-index	128289 60 g-index
88 all docs	88 docs citations	88 times ranked	11717 citing authors

#	Article	IF	Citations
1	SomaticCALRMutations in Myeloproliferative Neoplasms with NonmutatedJAK2. New England Journal of Medicine, 2013, 369, 2391-2405.	27.0	1,556
2	A single-cell resolution map of mouse hematopoietic stem and progenitor cell differentiation. Blood, 2016, 128, e20-e31.	1.4	608
3	Long-Term Propagation of Distinct Hematopoietic Differentiation Programs In Vivo. Cell Stem Cell, 2007, 1, 218-229.	11.1	520
4	Effect of Mutation Order on Myeloproliferative Neoplasms. New England Journal of Medicine, 2015, 372, 601-612.	27.0	467
5	Population dynamics of normal human blood inferred from somatic mutations. Nature, 2018, 561, 473-478.	27.8	427
6	Combined Single-Cell Functional and Gene Expression Analysis Resolves Heterogeneity within Stem Cell Populations. Cell Stem Cell, 2015, 16, 712-724.	11.1	376
7	Hematopoietic stem cells proliferate until after birth and show a reversible phase-specific engraftment defect. Journal of Clinical Investigation, 2006, 116, 2808-2816.	8.2	315
8	Prospective isolation and molecular characterization of hematopoietic stem cells with durable self-renewal potential. Blood, 2009, 113, 6342-6350.	1.4	300
9	High-throughput analysis of single hematopoietic stem cell proliferation in microfluidic cell culture arrays. Nature Methods, 2011, 8, 581-586.	19.0	299
10	The Lin28bâ€“let-7â€“Hmga2 axis determines the higher self-renewal potential of fetal haematopoietic stem cells. Nature Cell Biology, 2013, 15, 916-925.	10.3	292
11	The unfolded protein response governs integrity of the haematopoietic stem-cell pool during stress. Nature, 2014, 510, 268-272.	27.8	292
12	Hematopoietic Stem Cell Subtypes Expand Differentially during Development and Display Distinct Lymphopoietic Programs. Cell Stem Cell, 2012, 10, 273-283.	11.1	277
13	Somatic mutation landscapes at single-molecule resolution. Nature, 2021, 593, 405-410.	27.8	254
14	Identification of a new intrinsically timed developmental checkpoint that reprograms key hematopoietic stem cell properties. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5878-5882.	7.1	209
15	Clonal dynamics of haematopoiesis across the human lifespan. Nature, 2022, 606, 343-350.	27.8	160
16	A single-cell hematopoietic landscape resolves 8 lineage trajectories and defects in Kit mutant mice. Blood, 2018, 131, e1-e11.	1.4	158
17	Regulation of Hematopoietic Stem Cells by the Steel Factor/KIT Signaling Pathway. Clinical Cancer Research, 2008, 14, 1926-1930.	7.0	155
18	Comprehensive microRNA expression profiling of the hematopoietic hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15443-15448.	7.1	154

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19	High-resolution video monitoring of hematopoietic stem cells cultured in single-cell arrays identifies new features of self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8185-8190.	7.1	110
20	Hemopoietic-specific Sf3b1-K700E knock-in mice display the splicing defect seen in human MDS but develop anemia without ring sideroblasts. Leukemia, 2017, 31, 720-727.	7.2	105
21	Steel factor responsiveness regulates the high self-renewal phenotype of fetal hematopoietic stem cells. Blood, 2007, 109, 5043-5048.	1.4	100
22	Reconstructing blood stem cell regulatory network models from single-cell molecular profiles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5822-5829.	7.1	89
23	Mouse models of myeloproliferative neoplasms: JAK of all grades. DMM Disease Models and Mechanisms, 2011, 4, 311-317.	2.4	87
24	Self-Renewal of Single Mouse Hematopoietic Stem Cells Is Reduced by JAK2V617F Without Compromising Progenitor Cell Expansion. PLoS Biology, 2013, 11, e1001576.	5.6	77
25	JAK2V617F homozygosity drives a phenotypic switch in myeloproliferative neoplasms, but is insufficient to sustain disease. Blood, 2014, 123, 3139-3151.	1.4	77
26	Cell of Origin in AML: Susceptibility to MN1-Induced Transformation Is Regulated by the MEIS1/AbdB-like HOX Protein Complex. Cancer Cell, 2011, 20, 39-52.	16.8	76
27	Proliferation Drives Aging-Related Functional Decline in a Subpopulation of the Hematopoietic Stem Cell Compartment. Cell Reports, 2017, 19, 1503-1511.	6.4	76
28	Mutant calreticulin knockin mice develop thrombocytosis and myelofibrosis without a stem cell self-renewal advantage. Blood, 2018, 131, 649-661.	1.4	70
29	Steel factor coordinately regulates the molecular signature and biologic function of hematopoietic stem cells. Blood, 2008, 112, 560-567.	1.4	55
30	Order Matters: The Order of Somatic Mutations Influences Cancer Evolution. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a027060.	6.2	46
31	Distinct Stromal Cell Factor Combinations Can Separately Control Hematopoietic Stem Cell Survival, Proliferation, and Self-Renewal. Cell Reports, 2014, 7, 1956-1967.	6.4	45
32	Index sorting resolves heterogeneous murine hematopoietic stemÂcellÂpopulations. Experimental Hematology, 2015, 43, 803-811.	0.4	44
33	Longitudinal Cytokine Profiling Identifies GROâ€Î± and EGF as Potential Biomarkers of Disease Progression in Essential Thrombocythemia. HemaSphere, 2020, 4, e371.	2.7	37
34	JAK2V617F mediates resistance to DNA damage-induced apoptosis by modulating FOXO3A localization and Bcl-xL deamidation. Oncogene, 2016, 35, 2235-2246.	5.9	24
35	Single-cell approaches identify the molecular network driving malignant hematopoietic stem cell self-renewal. Blood, 2018, 132, 791-803.	1.4	24
36	Survey Says: â€œCOVID-19 Lockdown Hits Young Faculty and Clinical Trialsâ€• Stem Cell Reports, 2020, 15, 1-5.	4.8	24

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37	Exploiting Single-Cell Tools in Gene and Cell Therapy. Frontiers in Immunology, 2021, 12, 702636.	4.8	21
38	Effect of Mutation Order on Myeloproliferative Neoplasms. New England Journal of Medicine, 2015, 372, 1865-1866.	27.0	20
39	Tracking hematopoietic stem cells and their progeny using whole-genome sequencing. Experimental Hematology, 2020, 83, 12-24.	0.4	19
40	Ontogeny stage-independent and high-level clonal expansion in vitro of mouse hematopoietic stem cells stimulated by an engineered NUP98-HOX fusion transcription factor. Blood, 2011, 118, 4366-4376.	1.4	18
41	Clonal heterogeneity as a driver of disease variability in the evolution of myeloproliferative neoplasms. Experimental Hematology, 2014, 42, 841-851.	0.4	17
42	Isolation and Assessment of Longâ€Term Reconstituting Hematopoietic Stem Cells from Adult Mouse Bone Marrow. Current Protocols in Stem Cell Biology, 2007, 3, Unit 2A.4.	3.0	16
43	Varying levels of aldehyde dehydrogenase activity in adult murine marrow hematopoietic stem cells are associated with engraftment and cell cycle status. Experimental Hematology, 2012, 40, 857-866.e5.	0.4	16
44	Isolation and Assessment of Single Longâ€Term Reconstituting Hematopoietic Stem Cells from Adult Mouse Bone Marrow. Current Protocols in Stem Cell Biology, 2016, 38, 2A.4.1-2A.4.24.	3.0	15
45	STAT1 is essential for HSC function and maintains MHCIIhi stem cells that resist myeloablation and neoplastic expansion. Blood, 2022, 140, 1592-1606.	1.4	15
46	Recommendations for empowering early career researchers to improve research culture and practice. PLoS Biology, 2022, 20, e3001680.	5.6	15
47	Hematopoietic stem cells retain functional potential and molecular identity in hibernation cultures. Stem Cell Reports, 2021, 16, 1614-1628.	4.8	12
48	Emerging single-cell tools are primed to reveal functional and molecular heterogeneity in malignant hematopoietic stem cells. Current Opinion in Hematology, 2019, 26, 214-221.	2.5	9
49	A Modified Polymerase Chain Reaction-Long Serial Analysis of Gene Expression Protocol Identifies Novel Transcripts in Human CD34+Bone Marrow Cells. Stem Cells, 2007, 25, 1681-1689.	3.2	8
50	Zinc-dependent multimerization of mutant calreticulin is required for MPL binding and MPN pathogenesis. Blood Advances, 2021, 5, 1922-1932.	5.2	8
51	Identification of novel regulators of developmental hematopoiesis using Endoglin regulatory elements as molecular probes. Blood, 2016, 128, 1928-1939.	1.4	6
52	Understanding hematopoiesis from a single-cell standpoint. Experimental Hematology, 2016, 44, 447-450.	0.4	5
53	Bone marrow remodeling supports hematopoiesis in response to immune thrombocytopenia progression in mice. Blood Advances, 2021, 5, 4877-4889.	5.2	4
54	Clonal Tracking By Whole Genome Sequencing Permits Comprehensive Mapping of the Genomic Landscape in Pre- and Post-Gene Therapy Sickle Cell Patients. Blood, 2021, 138, 559-559.	1.4	4

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55	Nongenetic stochastic expansion of JAK2V617F-homozygous subclones in polycythemia vera?. Blood, 2014, 124, 3332-3334.	1.4	3
56	There and Back Again: A Cytokine Receptor's Tail. HemaSphere, 2020, 4, e349.	2.7	2
57	Order Matters: Sequence Of Mutation Acquisition In Myeloproliferative Neoplasms Impacts Disease Pathogenesis and Stem Cell Potency. Blood, 2013, 122, 2888-2888.	1.4	2
58	Protocol to maintain single functional mouse hematopoietic stem cells in vitro without cell division. STAR Protocols, 2021, 2, 100927.	1.2	1
59	Adult Hematopoiesis. , 2016, , 15-25.		0
60	Lemonade From Lemons: Recruiting Blood Stem Cells into Action. HemaSphere, 2020, 4, e416.	2.7	0
61	Just a Spoonful of Sugar Helps the HSCs Move â€™Round. HemaSphere, 2021, 5, e551.	2.7	0
62	Cytokine Combinations wERKing to a Different Tune. HemaSphere, 2021, 5, e623.	2.7	0
63	Rapid and Irreversible Alteration of the Ability of Hematopoietic Stem Cells To Execute Both Symmetric and Asymmetric Self-Renewal Divisions by Exposure to Reduced Steel Factor Concentrations with No Effect on Their Survival or Mitogenesis.. Blood, 2006, 108, 684-684.	1.4	0
64	Response to Collinson et al. Comment. HemaSphere, 2020, 4, e491.	2.7	0
65	MDS and TP53: When One Hit Just Isn't Enoughâ€¦. HemaSphere, 2020, 4, e494.	2.7	0
66	Clonal Dynamics of Normal Haematopoiesis with Human Ageing. Blood, 2021, 138, 598-598.	1.4	0
67	The Next Generation of FACS â€“ Not Just a Uniform Blob of Fluorescence. HemaSphere, 2022, 6, e709.	2.7	0
68	Anchors Away: The Critical Role of Membrane Bound Molecules in Regulating Stem Cell Symmetry. HemaSphere, 2022, 6, e678.	2.7	0