Grant A Challen

List of Publications by Year
in descending order

54 papers	4,822 citations	236925 25 h-index	197818 49 g-index
57 all docs	57 docs citations	57 times ranked	7864 citing authors

#	Article	IF	Citations
1	Dnmt3a is essential for hematopoietic stem cell differentiation. Nature Genetics, 2012, 44, 23-31.	21.4	916
2	Clonal haematopoiesis harbouring AML-associated mutations is ubiquitous in healthy adults. Nature Communications, 2016, 7, 12484.	12.8	523
3	Distinct Hematopoietic Stem Cell Subtypes Are Differentially Regulated by TGF-Î²1. Cell Stem Cell, 2010, 6, 265-278.	11.1	492
4	Dnmt3a and Dnmt3b Have Overlapping and Distinct Functions in Hematopoietic Stem Cells. Cell Stem Cell, 2014, 15, 350-364.	11.1	288
5	Mouse hematopoietic stem cell identification and analysis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 14-24.	1.5	277
6	Large conserved domains of low DNA methylation maintained by Dnmt3a. Nature Genetics, 2014, 46, 17-23.	21.4	276
7	Reprogrammable CRISPR/Cas9-based system for inducing site-specific DNA methylation. Biology Open, 2016, 5, 866-874.	1.2	228
8	Dnmt3a loss predisposes murine hematopoietic stem cells to malignant transformation. Blood, 2015, 125, 629-638.	1.4	206
9	Chronic infection drives Dnmt3a-loss-of-function clonal hematopoiesis via IFNÎ³ signaling. Cell Stem Cell, 2021, 28, 1428-1442.e6.	11.1	164
10	Loss of Dnmt3a Immortalizes Hematopoietic Stem Cells InÂVivo. Cell Reports, 2018, 23, 1-10.	6.4	159
11	Breast and pancreatic cancer interrupt IRF8-dependent dendritic cell development to overcome immune surveillance. Nature Communications, 2018, 9, 1250.	12.8	151
12	DNMT3A Loss Drives Enhancer Hypomethylation in FLT3-ITD-Associated Leukemias. Cancer Cell, 2016, 29, 922-934.	16.8	107
13	Type II Interferon Promotes Differentiation of Myeloid-Biased Hematopoietic Stem Cells. Stem Cells, 2014, 32, 3023-3030.	3.2	105
14	Inflammatory cytokines promote clonal hematopoiesis with specific mutations in ulcerative colitis patients. Experimental Hematology, 2019, 80, 36-41.e3.	0.4	90
15	Enforced differentiation of Dnmt3a-null bone marrow leads to failure with c-Kit mutations driving leukemic transformation. Blood, 2015, 125, 619-628.	1.4	86
16	Runx1 isoforms show differential expression patterns during hematopoietic development but have similar functional effects in adult hematopoietic stem cells. Experimental Hematology, 2010, 38, 403-416.	0.4	76
17	Clonal Hematopoiesis: Mechanisms Driving Dominance of Stem Cell Clones. Blood, 2020, 136, 1590-1598.	1.4	67
18	A TFIID-SAGA Perturbation that Targets MYB and Suppresses Acute Myeloid Leukemia. Cancer Cell, 2018, 33, 13-28.e8.	16.8	61

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19	Divergent Effects of Dnmt3a and Tet2 Mutations on Hematopoietic Progenitor Cell Fitness. Stem Cell Reports, 2020, 14, 551-560.	4.8	53
20	Kdm6b regulates context-dependent hematopoietic stem cell self-renewal and leukemogenesis. Leukemia, 2019, 33, 2506-2521.	7.2	49
21	JARID2 Functions as a Tumor Suppressor in Myeloid Neoplasms by Repressing Self-Renewal in Hematopoietic Progenitor Cells. Cancer Cell, 2018, 34, 741-756.e8.	16.8	44
22	Simplified murine multipotent progenitor isolation scheme: Establishing a consensus approach for multipotent progenitor identification. Experimental Hematology, 2021, 104, 55-63.	0.4	38
23	The epigenetic basis of hematopoietic stem cell aging. Seminars in Hematology, 2017, 54, 19-24.	3.4	37
24	Promiscuous Expression of H2B-GFP Transgene in Hematopoietic Stem Cells. PLoS ONE, 2008, 3, e2357.	2.5	37
25	DNA methylation in normal and malignant hematopoiesis. International Journal of Hematology, 2016, 103, 617-626.	1.6	32
26	LKB1/<i>STK11</i> Is a Tumor Suppressor in the Progression of Myeloproliferative Neoplasms. Cancer Discovery, 2021, 11, 1398-1410.	9.4	29
27	IRAK4 mediates colitis-induced tumorigenesis and chemoresistance in colorectal cancer. JCI Insight, 2019, 4, .	5.0	26
28	<i>TET2</i> and <i>DNMT3A</i> Mutations Exert Divergent Effects on DNA Repair and Sensitivity of Leukemia Cells to PARP Inhibitors. Cancer Research, 2021, 81, 5089-5101.	0.9	25
29	An activating mutation of interferon regulatory factor 4 (IRF4) in adult T-cell leukemia. Journal of Biological Chemistry, 2018, 293, 6844-6858.	3.4	21
30	Protein Kinase C Epsilon Is a Key Regulator of Mitochondrial Redox Homeostasis in Acute Myeloid Leukemia. Clinical Cancer Research, 2018, 24, 608-618.	7.0	20
31	TGFÎ²R-SMAD3 Signaling Induces Resistance to PARP Inhibitors in the Bone Marrow Microenvironment. Cell Reports, 2020, 33, 108221.	6.4	18
32	A Humanized Animal Model Predicts Clonal Evolution and Therapeutic Vulnerabilities in Myeloproliferative Neoplasms. Cancer Discovery, 2021, 11, 3126-3141.	9.4	17
33	Inflammatory signals in HSPC development and homeostasis: Too much ofÂaÂgood thing?. Experimental Hematology, 2016, 44, 908-912.	0.4	14
34	Dominating the Negative: How DNMT3A Mutations Contribute to AML Pathogenesis. Cell Stem Cell, 2017, 20, 7-8.	11.1	12
35	Epigenomic regulation of human T-cell leukemia virus by chromatin-insulator CTCF. PLoS Pathogens, 2021, 17, e1009577.	4.7	12
36	Pevonedistat targets malignant cells in myeloproliferative neoplasms <i>in vitro</i> and <i>in vivo</i> via NFÎºB pathway inhibition. Blood Advances, 2022, 6, 611-623.	5.2	11

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37	Interferon regulatory factor 4 as a therapeutic target in adult T-cell leukemia lymphoma. Retrovirology, 2020, 17, 27.	2.0	8
38	<i>Txnip</i> Enhances Fitness of <i>Dnmt3a</i>-Mutant Hematopoietic Stem Cells via <i>p21</i>. Blood Cancer Discovery, 2022, 3, 220-239.	5.0	7
39	Clonal-level responses of functionally distinct hematopoietic stem cells to trophic factors. Experimental Hematology, 2014, 42, 317-327.e2.	0.4	5
40	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
41	The GNASR201C mutation associated with clonal hematopoiesis supports transplantable hematopoietic stem cell activity. Experimental Hematology, 2018, 57, 14-20.	0.4	5
42	Dnmt3b Has Few Specific Functions In Adult Hematopoietic Stem Cells But Shows Abnormal Activity In The Absence Of Dnmt3a. Blood, 2013, 122, 734-734.	1.4	5
43	Bridge Over Troubled Stem Cells. Molecular Therapy, 2011, 19, 1756-1758.	8.2	4
44	Loss of LKB1/STK11 Facilitates Leukemic Progression of the Myeloproliferative Neoplasms. Blood, 2020, 136, 1-1.	1.4	3
45	The Role of Jarid2 in Leukemic Transformation of Chronic Myeloid Neoplasms. Blood, 2015, 126, 1245-1245.	1.4	2
46	Dnmt3a-Deletion Accelerates FLT3-ITD Malignancies In Mice By Hypomethylation Of Enhancer Sites and Activating Stem Cell Programs; Implications For Therapy. Blood, 2013, 122, 595-595.	1.4	1
47	The Histone Demethylase KDM6B Is a Genetic Dependency of NOTCH1-Driven T-ALL. Blood, 2021, 138, 782-782.	1.4	1
48	DNMT3A Regulates Hematopoietic Stem Cell Function Via DNA Methylation-Independent Functions. Blood, 2021, 138, 24-24.	1.4	1
49	DUSP6 Mediates Resistance to JAK2 Inhibition and Drives Myeloproliferative Neoplasm Disease Progression. Blood, 2021, 138, 55-55.	1.4	1
50	<i>TET2</i> and <i>DNMT3A</i> Mutations Exert Divergent Effects on DNA Repair and Sensitivity of Leukemia Cells to PARP Inhibitors. Blood, 2020, 136, 4-4.	1.4	1
51	Large Conserved Domains Of Low DNA Methylation Maintained By 5-Hydroxymethycytosine and Dnmt3a. Blood, 2013, 122, 2406-2406.	1.4	0
52	Dnmt3a Deletion Predisposes Hematopoietic Stem Cells To Malignant Transformation. Blood, 2013, 122, 4198-4198.	1.4	0
53	Pathways for Oncogenesis in T-Cell Acute Lymphoblastic Leukemia Driven By DNA Methylation and Notch Signaling. Blood, 2015, 126, 1226-1226.	1.4	0
54	Clonal Hematopoiesis Is Associated with Risk of Cardiovascular Disease in Individuals with Human Immunodeficiency Virus. Blood, 2021, 138, 3277-3277.	1.4	0