

# Grant A Challen

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,822  
citations

236612

25  
h-index

197535

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. <i>Nature Genetics</i> , 2012, 44, 23-31.	9.4	916
2	Clonal haematopoiesis harbouring AML-associated mutations is ubiquitous in healthy adults. <i>Nature Communications</i> , 2016, 7, 12484.	5.8	523
3	Distinct Hematopoietic Stem Cell Subtypes Are Differentially Regulated by TGF- $\beta$ 1. <i>Cell Stem Cell</i> , 2010, 6, 265-278.	5.2	492
4	Dnmt3a and Dnmt3b Have Overlapping and Distinct Functions in Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , 2014, 15, 350-364.	5.2	288
5	Mouse hematopoietic stem cell identification and analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 14-24.	1.1	277
6	Large conserved domains of low DNA methylation maintained by Dnmt3a. <i>Nature Genetics</i> , 2014, 46, 17-23.	9.4	276
7	Reprogrammable CRISPR/Cas9-based system for inducing site-specific DNA methylation. <i>Biology Open</i> , 2016, 5, 866-874.	0.6	228
8	Dnmt3a loss predisposes murine hematopoietic stem cells to malignant transformation. <i>Blood</i> , 2015, 125, 629-638.	0.6	206
9	Chronic infection drives Dnmt3a-loss-of-function clonal hematopoiesis via IFN $\beta$ signaling. <i>Cell Stem Cell</i> , 2021, 28, 1428-1442.e6.	5.2	164
10	Loss of Dnmt3a Immortalizes Hematopoietic Stem Cells In Vivo. <i>Cell Reports</i> , 2018, 23, 1-10.	2.9	159
11	Breast and pancreatic cancer interrupt IRF8-dependent dendritic cell development to overcome immune surveillance. <i>Nature Communications</i> , 2018, 9, 1250.	5.8	151
12	DNMT3A Loss Drives Enhancer Hypomethylation in FLT3-ITD-Associated Leukemias. <i>Cancer Cell</i> , 2016, 29, 922-934.	7.7	107
13	Type II Interferon Promotes Differentiation of Myeloid-Biased Hematopoietic Stem Cells. <i>Stem Cells</i> , 2014, 32, 3023-3030.	1.4	105
14	Inflammatory cytokines promote clonal hematopoiesis with specific mutations in ulcerative colitis patients. <i>Experimental Hematology</i> , 2019, 80, 36-41.e3.	0.2	90
15	Enforced differentiation of Dnmt3a-null bone marrow leads to failure with c-Kit mutations driving leukemic transformation. <i>Blood</i> , 2015, 125, 619-628.	0.6	86
16	Runx1 isoforms show differential expression patterns during hematopoietic development but have similar functional effects in adult hematopoietic stem cells. <i>Experimental Hematology</i> , 2010, 38, 403-416.	0.2	76
17	Clonal Hematopoiesis: Mechanisms Driving Dominance of Stem Cell Clones. <i>Blood</i> , 2020, 136, 1590-1598.	0.6	67
18	A TFIIID-SAGA Perturbation that Targets MYB and Suppresses Acute Myeloid Leukemia. <i>Cancer Cell</i> , 2018, 33, 13-28.e8.	7.7	61

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19	Divergent Effects of Dnmt3a and Tet2 Mutations on Hematopoietic Progenitor Cell Fitness. <i>Stem Cell Reports</i> , 2020, 14, 551-560.	2.3	53
20	Kdm6b regulates context-dependent hematopoietic stem cell self-renewal and leukemogenesis. <i>Leukemia</i> , 2019, 33, 2506-2521.	3.3	49
21	JARID2 Functions as a Tumor Suppressor in Myeloid Neoplasms by Repressing Self-Renewal in Hematopoietic Progenitor Cells. <i>Cancer Cell</i> , 2018, 34, 741-756.e8.	7.7	44
22	Simplified murine multipotent progenitor isolation scheme: Establishing a consensus approach for multipotent progenitor identification. <i>Experimental Hematology</i> , 2021, 104, 55-63.	0.2	38
23	The epigenetic basis of hematopoietic stem cell aging. <i>Seminars in Hematology</i> , 2017, 54, 19-24.	1.8	37
24	Promiscuous Expression of H2B-GFP Transgene in Hematopoietic Stem Cells. <i>PLoS ONE</i> , 2008, 3, e2357.	1.1	37
25	DNA methylation in normal and malignant hematopoiesis. <i>International Journal of Hematology</i> , 2016, 103, 617-626.	0.7	32
26	LKB1/STK11 Is a Tumor Suppressor in the Progression of Myeloproliferative Neoplasms. <i>Cancer Discovery</i> , 2021, 11, 1398-1410.	7.7	29
27	IRAK4 mediates colitis-induced tumorigenesis and chemoresistance in colorectal cancer. <i>JCI Insight</i> , 2019, 4, .	2.3	26
28	TET2 and DNMT3A Mutations Exert Divergent Effects on DNA Repair and Sensitivity of Leukemia Cells to PARP Inhibitors. <i>Cancer Research</i> , 2021, 81, 5089-5101.	0.4	25
29	An activating mutation of interferon regulatory factor 4 (IRF4) in adult T-cell leukemia. <i>Journal of Biological Chemistry</i> , 2018, 293, 6844-6858.	1.6	21
30	Protein Kinase C Epsilon Is a Key Regulator of Mitochondrial Redox Homeostasis in Acute Myeloid Leukemia. <i>Clinical Cancer Research</i> , 2018, 24, 608-618.	3.2	20
31	TGF $\beta$ 2R-SMAD3 Signaling Induces Resistance to PARP Inhibitors in the Bone Marrow Microenvironment. <i>Cell Reports</i> , 2020, 33, 108221.	2.9	18
32	A Humanized Animal Model Predicts Clonal Evolution and Therapeutic Vulnerabilities in Myeloproliferative Neoplasms. <i>Cancer Discovery</i> , 2021, 11, 3126-3141.	7.7	17
33	Inflammatory signals in HSPC development and homeostasis: Too much of a good thing?. <i>Experimental Hematology</i> , 2016, 44, 908-912.	0.2	14
34	Dominating the Negative: How DNMT3A Mutations Contribute to AML Pathogenesis. <i>Cell Stem Cell</i> , 2017, 20, 7-8.	5.2	12
35	Epigenomic regulation of human T-cell leukemia virus by chromatin-insulator CTCF. <i>PLoS Pathogens</i> , 2021, 17, e1009577.	2.1	12
36	Pevonedistat targets malignant cells in myeloproliferative neoplasms <i>in vitro</i> and <i>in vivo</i> via NF $\kappa$ B pathway inhibition. <i>Blood Advances</i> , 2022, 6, 611-623.	2.5	11

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37	Interferon regulatory factor 4 as a therapeutic target in adult T-cell leukemia lymphoma. <i>Retrovirology</i> , 2020, 17, 27.	0.9	8
38	<i>Txnip</i> Enhances Fitness of <i>Dnmt3a</i> -Mutant Hematopoietic Stem Cells via <i>p21</i> . <i>Blood Cancer Discovery</i> , 2022, 3, 220-239.	2.6	7
39	Clonal-level responses of functionally distinct hematopoietic stem cells to trophic factors. <i>Experimental Hematology</i> , 2014, 42, 317-327.e2.	0.2	5
40	Two new routes to make blood: Hematopoietic specification from pluripotent cell lines versus reprogramming of somatic cells. <i>Experimental Hematology</i> , 2015, 43, 756-759.	0.2	5
41	The GNASR201C mutation associated with clonal hematopoiesis supports transplantable hematopoietic stem cell activity. <i>Experimental Hematology</i> , 2018, 57, 14-20.	0.2	5
42	<i>Dnmt3b</i> Has Few Specific Functions In Adult Hematopoietic Stem Cells But Shows Abnormal Activity In The Absence Of <i>Dnmt3a</i> . <i>Blood</i> , 2013, 122, 734-734.	0.6	5
43	Bridge Over Troubled Stem Cells. <i>Molecular Therapy</i> , 2011, 19, 1756-1758.	3.7	4
44	Loss of LKB1/STK11 Facilitates Leukemic Progression of the Myeloproliferative Neoplasms. <i>Blood</i> , 2020, 136, 1-1.	0.6	3
45	The Role of <i>Jarid2</i> in Leukemic Transformation of Chronic Myeloid Neoplasms. <i>Blood</i> , 2015, 126, 1245-1245.	0.6	2
46	<i>Dnmt3a</i> -Deletion Accelerates FLT3-ITD Malignancies In Mice By Hypomethylation Of Enhancer Sites and Activating Stem Cell Programs; Implications For Therapy. <i>Blood</i> , 2013, 122, 595-595.	0.6	1
47	The Histone Demethylase KDM6B Is a Genetic Dependency of NOTCH1-Driven T-ALL. <i>Blood</i> , 2021, 138, 782-782.	0.6	1
48	DNMT3A Regulates Hematopoietic Stem Cell Function Via DNA Methylation-Independent Functions. <i>Blood</i> , 2021, 138, 24-24.	0.6	1
49	DUSP6 Mediates Resistance to JAK2 Inhibition and Drives Myeloproliferative Neoplasm Disease Progression. <i>Blood</i> , 2021, 138, 55-55.	0.6	1
50	<i>TET2</i> and <i>DNMT3A</i> Mutations Exert Divergent Effects on DNA Repair and Sensitivity of Leukemia Cells to PARP Inhibitors. <i>Blood</i> , 2020, 136, 4-4.	0.6	1
51	Large Conserved Domains Of Low DNA Methylation Maintained By 5-Hydroxymethylcytosine and <i>Dnmt3a</i> . <i>Blood</i> , 2013, 122, 2406-2406.	0.6	0
52	<i>Dnmt3a</i> Deletion Predisposes Hematopoietic Stem Cells To Malignant Transformation. <i>Blood</i> , 2013, 122, 4198-4198.	0.6	0
53	Pathways for Oncogenesis in T-Cell Acute Lymphoblastic Leukemia Driven By DNA Methylation and Notch Signaling. <i>Blood</i> , 2015, 126, 1226-1226.	0.6	0
54	Clonal Hematopoiesis Is Associated with Risk of Cardiovascular Disease in Individuals with Human Immunodeficiency Virus. <i>Blood</i> , 2021, 138, 3277-3277.	0.6	0