

# Michael D Milsom

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,434  
citations

257450

24  
h-index

197818

49  
g-index

60  
all docs

60  
docs citations

60  
times ranked

6541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exit from dormancy provokes DNA-damage-induced attrition in haematopoietic stem cells. <i>Nature</i> , 2015, 520, 549-552.	27.8	498
2	Identification of Regulatory Networks in HSCs and Their Immediate Progeny via Integrated Proteome, Transcriptome, and DNA Methylome Analysis. <i>Cell Stem Cell</i> , 2014, 15, 507-522.	11.1	439
3	Inflammation-Induced Emergency Megakaryopoiesis Driven by Hematopoietic Stem Cell-like Megakaryocyte Progenitors. <i>Cell Stem Cell</i> , 2015, 17, 422-434.	11.1	353
4	Platelet GPIb $\beta$ is a mediator and potential interventional target for NASH and subsequent liver cancer. <i>Nature Medicine</i> , 2019, 25, 641-655.	30.7	259
5	Causes and Consequences of Hematopoietic Stem Cell Heterogeneity. <i>Cell Stem Cell</i> , 2018, 22, 627-638.	11.1	233
6	Somatic mutation rates scale with lifespan across mammals. <i>Nature</i> , 2022, 604, 517-524.	27.8	211
7	Requirement for CDK6 in MLL-rearranged acute myeloid leukemia. <i>Blood</i> , 2014, 124, 13-23.	1.4	139
8	Overcoming reprogramming resistance of Fanconi anemia cells. <i>Blood</i> , 2012, 119, 5449-5457.	1.4	133
9	Lineage-specific BCL11A knockdown circumvents toxicities and reverses sickle phenotype. <i>Journal of Clinical Investigation</i> , 2016, 126, 3868-3878.	8.2	129
10	miRNA-embedded shRNAs for Lineage-specific BCL11A Knockdown and Hemoglobin F Induction. <i>Molecular Therapy</i> , 2015, 23, 1465-1474.	8.2	101
11	Haematopoietic stem cells in perisinusoidal niches are protected from ageing. <i>Nature Cell Biology</i> , 2019, 21, 1309-1320.	10.3	88
12	Multicistronic lentiviral vectors containing the FMDV 2A cleavage factor demonstrate robust expression of encoded genes at limiting MOI. <i>Virology Journal</i> , 2006, 3, 14.	3.4	71
13	Rac1 is essential for intraembryonic hematopoiesis and for the initial seeding of fetal liver with definitive hematopoietic progenitor cells. <i>Blood</i> , 2008, 111, 3313-3321.	1.4	59
14	Stem Cell-Specific Mechanisms Ensure Genomic Fidelity within HSCs and upon Aging of HSCs. <i>Cell Reports</i> , 2015, 13, 2412-2424.	6.4	48
15	Identification of DNA methylation changes at cis-regulatory elements during early steps of HSC differentiation using tagmentation-based whole genome bisulfite sequencing. <i>Cell Cycle</i> , 2014, 13, 3476-3487.	2.6	39
16	Identification of Embryonic Neural Plate Border Stem Cells and Their Generation by Direct Reprogramming from Adult Human Blood Cells. <i>Cell Stem Cell</i> , 2019, 24, 166-182.e13.	11.1	39
17	Rapid Lentiviral Transduction Preserves the Engraftment Potential of Fanca $\beta$ Hematopoietic Stem Cells. <i>Molecular Therapy</i> , 2008, 16, 1154-1160.	8.2	38
18	Hotspot DNMT3A mutations in clonal hematopoiesis and acute myeloid leukemia sensitize cells to azacytidine via viral mimicry response. <i>Nature Cancer</i> , 2021, 2, 527-544.	13.2	37

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19	Early aberrant DNA methylation events in a mouse model of acute myeloid leukemia. <i>Genome Medicine</i> , 2014, 6, 34.	8.2	34
20	Enhanced in vivo selection of bone marrow cells by retroviral-mediated coexpression of mutant O6-methylguanine-DNA-methyltransferase and HOXB4. <i>Molecular Therapy</i> , 2004, 10, 862-873.	8.2	32
21	The P140K mutant of human O6-methylguanine-DNA-methyltransferase (MGMT) confers resistance in vitro and in vivo to temozolomide in combination with the novel MGMT inactivator O6-(4-bromothienyl)guanine. <i>Journal of Gene Medicine</i> , 2006, 8, 29-34.	2.8	32
22	The Rac GTPase effector p21-activated kinase is essential for hematopoietic stem/progenitor cell migration and engraftment. <i>Blood</i> , 2013, 121, 2474-2482.	1.4	31
23	EDA-Fibronectin Originating from Osteoblasts Inhibits the Immune Response against Cancer. <i>PLoS Biology</i> , 2016, 14, e1002562.	5.6	31
24	Distinct effects of ruxolitinib and interferon-alpha on murine JAK2V617F myeloproliferative neoplasm hematopoietic stem cell populations. <i>Leukemia</i> , 2020, 34, 1075-1089.	7.2	29
25	Antigen presentation safeguards the integrity of the hematopoietic stem cell pool. <i>Cell Stem Cell</i> , 2022, 29, 760-775.e10.	11.1	29
26	Live and let die: In vivo selection of gene-modified hematopoietic stem cells via MGMT-mediated chemoprotection. <i>DNA Repair</i> , 2007, 6, 1210-1221.	2.8	25
27	Ectopic HOXB4 overcomes the inhibitory effect of tumor necrosis factor- $\alpha$ on Fanconi anemia hematopoietic stem and progenitor cells. <i>Blood</i> , 2009, 113, 5111-5120.	1.4	25
28	Clonal evolution of preleukemic hematopoietic stem cells in acute myeloid leukemia. <i>Experimental Hematology</i> , 2015, 43, 989-992.	0.4	25
29	Reciprocal Relationship between O6-Methylguanine-DNA Methyltransferase P140K Expression Level and Chemoprotection of Hematopoietic Stem Cells. <i>Cancer Research</i> , 2008, 68, 6171-6180.	0.9	24
30	Protection and selection for gene therapy in the hematopoietic system. <i>Journal of Gene Medicine</i> , 2004, 6, 133-146.	2.8	23
31	Rac signaling in osteoblastic cells is required for normal bone development but is dispensable for hematopoietic development. <i>Blood</i> , 2012, 119, 736-744.	1.4	22
32	Impact of DNA methylation programming on normal and pre-leukemic hematopoiesis. <i>Seminars in Cancer Biology</i> , 2018, 51, 89-100.	9.6	21
33	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.	7.0	20
34	The Fanconi anemia pathway is required for efficient repair of stress-induced DNA damage in haematopoietic stem cells. <i>Cell Cycle</i> , 2015, 14, 2734-2742.	2.6	18
35	A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification. <i>Haematologica</i> , 2021, 106, 1354-1367.	3.5	16
36	Disrupted Signaling through the Fanconi Anemia Pathway Leads to Dysfunctional Hematopoietic Stem Cell Biology: Underlying Mechanisms and Potential Therapeutic Strategies. <i>Anemia</i> , 2012, 2012, 1-18.	1.7	15

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37	Fanca <sup>-/-</sup> hematopoietic stem cells demonstrate a mobilization defect which can be overcome by administration of the Rac inhibitor NSC23766. <i>Haematologica</i> , 2009, 94, 1011-1015.	3.5	14
38	An episomal DNA vector platform for the persistent genetic modification of pluripotent stem cells and their differentiated progeny. <i>Stem Cell Reports</i> , 2022, 17, 143-158.	4.8	10
39	Enhancement of mouse hematopoietic stem/progenitor cell function via transient gene delivery using integration-deficient lentiviral vectors. <i>Experimental Hematology</i> , 2018, 57, 21-29.	0.4	6
40	Bridging the information gap. <i>Nature Immunology</i> , 2011, 12, 377-379.	14.5	5
41	DNMT1 Deficiency Impacts on Plasmacytoid Dendritic Cells in Homeostasis and Autoimmune Disease. <i>Journal of Immunology</i> , 2022, 208, 358-370.	0.8	5
42	Ex Vivo Expansion of Functional Hematopoietic Stem Cells, Facilitating Transplantation in the Absence of Conditioning. <i>HemaSphere</i> , 2019, 3, e306.	2.7	4
43	The role of the stem cell epigenome in normal aging and rejuvenative therapy. <i>Human Molecular Genetics</i> , 2020, 29, R236-R247.	2.9	4
44	Fast and high-fidelity in situ 3D imaging protocol for stem cells and niche components for mouse organs and tissues. <i>STAR Protocols</i> , 2022, 3, 101483.	1.2	3
45	Gaining the hard yard: pre-clinical evaluation of lentiviral-mediated gene therapy for the treatment of $\beta^0$ -thalassemia. <i>EMBO Molecular Medicine</i> , 2010, 2, 291-293.	6.9	2
46	Hypersensitivity response has negligible impact on Hematopoietic Stem Cells. <i>Stem Cell Reports</i> , 2021, 16, 1884-1893.	4.8	2
47	Stem Cells Spirited Away by Alcohol-Induced DNA Damage. <i>HemaSphere</i> , 2018, 2, e36.	2.7	1
48	Insertional Mutagenesis in Hematopoietic Cells: Lessons Learned from Adverse Events in Clinical Gene Therapy Trials. , 2011, , 131-165.		1
49	Hematopoietic SIN Lentiviral Micro RNA-Mediated Silencing of BCL11A: Pre-Clinical Evidence for a Sickle Cell Disease Gene-Therapy Trial. <i>Blood</i> , 2012, 120, 753-753.	1.4	1
50	Barriers to Effective Genome Editing of Haematopoietic Stem Cells. <i>Current Stem Cell Reports</i> , 2016, 2, 2-8.	1.6	0
51	The Roots of Neurodegenerative Disease Found in Developmental Hematopoiesis. <i>HemaSphere</i> , 2017, 1, e10.	2.7	0
52	An Inflammatory Environment: Donor Granulocytes Mediate Endothelial Regeneration Following Transplantation. <i>HemaSphere</i> , 2018, 2, e25.	2.7	0
53	Neutrophil Progenitors Function as a Mechanistic Link Between Sleep Disruption and Heart Disease. <i>HemaSphere</i> , 2019, 3, e257.	2.7	0
54	Potential Pre-Leukemic Mutations in <i>PPM1D</i> Confer Chemotherapy Resistance to Aged HSC Clones. <i>HemaSphere</i> , 2019, 3, e171.	2.7	0

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55	Intact Rac Signaling Is Important for Leukemia Cell Survival. <i>Blood</i> , 2010, 116, 2885-2885.	1.4	0
56	The Deconvolution of Human Hematopoiesis. <i>HemaSphere</i> , 2018, 2, e153.	2.7	0