Mickie Bhatia

List of Publications by Year
in descending order

90 papers	9,584 citations	66315 42 h-index	51562 86 g-index
92 all docs	92 docs citations	92 times ranked	10198 citing authors

#	Article	IF	Citations
1	Identification of primitive human hematopoietic cells capable of repopulating NOD/SCID mouse bone marrow: Implications for gene therapy. Nature Medicine, 1996, 2, 1329-1337.	15.2	765
2	Direct conversion of human fibroblasts to multilineage blood progenitors. Nature, 2010, 468, 521-526.	13.7	652
3	A newly discovered class of human hematopoietic cells with SCID-repopulating activity. Nature Medicine, 1998, 4, 1038-1045.	15.2	595
4	Bone marrowâ€“derived stem cells initiate pancreatic regeneration. Nature Biotechnology, 2003, 21, 763-770.	9.4	572
5	Cytokines and BMP-4 promote hematopoietic differentiation of human embryonic stem cells. Blood, 2003, 102, 906-915.	0.6	563
6	IGF and FGF cooperatively establish the regulatory stem cell niche of pluripotent human cells in vitro. Nature, 2007, 448, 1015-1021.	13.7	552
7	Identification of Drugs IncludingÂa DopamineÂReceptor Antagonist that Selectively Target Cancer Stem Cells. Cell, 2012, 149, 1284-1297.	13.5	420
8	The Notch Ligand Jagged-1 Represents a Novel Growth Factor of Human Hematopoietic Stem Cells. Journal of Experimental Medicine, 2000, 192, 1365-1372.	4.2	395
9	Quantitative Analysis Reveals Expansion of Human Hematopoietic Repopulating Cells After Short-term Ex Vivo Culture. Journal of Experimental Medicine, 1997, 186, 619-624.	4.2	394
10	Endothelial and Hematopoietic Cell Fate of Human Embryonic Stem Cells Originates from Primitive Endothelium with Hemangioblastic Properties. Immunity, 2004, 21, 31-41.	6.6	353
11	Generation of hematopoietic repopulating cells from human embryonic stem cells independent of ectopic HOXB4 expression. Journal of Experimental Medicine, 2005, 201, 1603-1614.	4.2	290
12	Characterization of human embryonic stem cells with features of neoplastic progression. Nature Biotechnology, 2009, 27, 91-97.	9.4	256
13	Glycogen synthase kinase-3 is an in vivo regulator of hematopoietic stem cell repopulation. Nature Medicine, 2006, 12, 89-98.	15.2	235
14	Wnt-5A augments repopulating capacity and primitive hematopoietic development of human blood stem cells in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3422-3427.	3.3	208
15	Human homologues of Delta-1 and Delta-4 function as mitogenic regulators of primitive human hematopoietic cells. Blood, 2001, 97, 1960-1967.	0.6	176
16	Assay of human stem cells by repopulation of NOD/SCID mice. Stem Cells, 1997, 15, 199-207.	1.4	174
17	Human embryonic stem cells maintained in the absence of mouse embryonic fibroblasts or conditioned media are capable of hematopoietic development. Blood, 2005, 105, 4598-4603.	0.6	165
18	Clonal isolation of hESCs reveals heterogeneity within the pluripotent stem cell compartment. Nature Methods, 2006, 3, 807-815.	9.0	155

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19	Acute myeloid leukaemia disrupts endogenous myelo-erythropoiesis by compromising the adipocyte bone marrow niche. Nature Cell Biology, 2017, 19, 1336-1347.	4.6	150
20	VEGF-A165 augments erythropoietic development from human embryonic stem cells. Blood, 2004, 103, 2504-2512.	0.6	147
21	Identification of Chemotherapy-Induced Leukemic-Regenerating Cells Reveals a Transient Vulnerability of Human AML Recurrence. Cancer Cell, 2018, 34, 483-498.e5.	7.7	125
22	Regional Localization within the Bone Marrow Influences the Functional Capacity of Human HSCs. Cell Stem Cell, 2013, 13, 175-189.	5.2	103
23	Noncanonical Wnt Signaling Orchestrates Early Developmental Events toward Hematopoietic Cell Fate from Human Embryonic Stem Cells. Cell Stem Cell, 2009, 4, 248-262.	5.2	83
24	An Enhanced Mass Spectrometry Approach Reveals Human Embryonic Stem Cell Growth Factors in Culture. Molecular and Cellular Proteomics, 2009, 8, 421-432.	2.5	80
25	Cell Fate Potential of Human Pluripotent Stem Cells Is Encoded by Histone Modifications. Cell Stem Cell, 2011, 9, 24-36.	5.2	80
26	Distinguishing Between Mouse and Human Pluripotent Stem Cell Regulation: The Best Laid Plans of Mice and Men. Stem Cells, 2010, 28, 419-430.	1.4	76
27	Niche displacement of human leukemic stem cells uniquely allows their competitive replacement with healthy HSPCs. Journal of Experimental Medicine, 2014, 211, 1925-1935.	4.2	75
28	Single Transcription Factor Conversion of Human Blood Fate to NPCs with CNS and PNS Developmental Capacity. Cell Reports, 2015, 11, 1367-1376.	2.9	73
29	Analysis of the Human Fetal Liver Hematopoietic Microenvironment. Stem Cells and Development, 2005, 14, 493-504.	1.1	71
30	Hematopoietic development from human embryonic stem cell lines. Experimental Hematology, 2005, 33, 987-996.	0.2	68
31	Activation of Neural Cell Fate Programs Toward Direct Conversion of Adult Human Fibroblasts into Tri-Potent Neural Progenitors Using <i>OCT-4</i>. Stem Cells and Development, 2014, 23, 1937-1946.	1.1	67
32	Hierarchical and Ontogenic Positions Serve to Define the Molecular Basis of Human Hematopoietic Stem Cell Behavior. Developmental Cell, 2005, 8, 651-663.	3.1	62
33	Deconstructing human embryonic stem cell cultures: niche regulation of self-renewal and pluripotency. Journal of Molecular Medicine, 2008, 86, 875-886.	1.7	58
34	OP9 Stroma Augments Survival of Hematopoietic Precursors and Progenitors During Hematopoietic Differentiation from Human Embryonic Stem Cells. Stem Cells, 2008, 26, 2485-2495.	1.4	54
35	Lineage-Specific Differentiation Is Influenced by State of Human Pluripotency. Cell Reports, 2017, 19, 20-35.	2.9	53
36	GSK3 Deficiencies in Hematopoietic Stem Cells Initiate Pre-neoplastic State that Is Predictive of Clinical Outcomes of Human Acute Leukemia. Cancer Cell, 2016, 29, 61-74.	7.7	52

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37	Smad7 alters cell fate decisions of human hematopoietic repopulating cells. Blood, 2005, 105, 1905-1915.	0.6	50
38	ID1 and ID3 represent conserved negative regulators of human embryonic and induced pluripotent stem cell hematopoiesis. Journal of Cell Science, 2011, 124, 1445-1452.	1.2	50
39	Notch-HES1 signaling axis controls hemato-endothelial fate decisions of human embryonic and induced pluripotent stem cells. Blood, 2013, 122, 1162-1173.	0.6	50
40	Functional analysis of human hematopoietic repopulating cells mobilized with granulocyte colony-stimulating factor alone versus granulocyte colony-stimulating factor in combination with stem cell factor. Blood, 2002, 100, 869-878.	0.6	49
41	Retroviral transduction of hematopoietic cells differentiated from human embryonic stem cell-derived CD45negPFV hemogenic precursors. Molecular Therapy, 2004, 10, 1109-1120.	3.7	49
42	Pyrvinium Targets CD133 in Human Glioblastoma Brain Tumorâ€“Initiating Cells. Clinical Cancer Research, 2015, 21, 5324-5337.	3.2	48
43	Somatic transcriptome priming gates lineage-specific differentiation potential of human-induced pluripotent stem cell states. Nature Communications, 2014, 5, 5605.	5.8	45
44	Molecular Evidence for OCT4-Induced Plasticity in Adult Human Fibroblasts Required for Direct Cell Fate Conversion to Lineage Specific Progenitors. Stem Cells, 2014, 32, 2178-2187.	1.4	41
45	Formation and Hematopoietic Differentiation of Human Embryoid Bodies by Suspension and Hanging Drop Cultures. Current Protocols in Stem Cell Biology, 2007, 3, Unit 1D.2.	3.0	40
46	Multiparameter comparisons of embryoid body differentiation toward human stem cell applications. Stem Cell Research, 2010, 5, 120-130.	0.3	38
47	In Vivo Generation of Neural Tumors from Neoplastic Pluripotent Stem Cells Models Early Human Pediatric Brain Tumor Formation. Stem Cells, 2012, 30, 392-404.	1.4	38
48	Sam68 Allows Selective Targeting of Human Cancer Stem Cells. Cell Chemical Biology, 2017, 24, 833-844.e9.	2.5	38
49	Molecular Pathways: Epigenetic Modulation of Wntâ€“Glycogen Synthase Kinase-3 Signaling to Target Human Cancer Stem Cells. Clinical Cancer Research, 2014, 20, 5372-5378.	3.2	36
50	Human Pluripotency Is Initiated and Preserved by a Unique Subset of Founder Cells. Cell, 2019, 177, 910-924.e22.	13.5	36
51	Hematopoietic stem cell biology: too much of a Wnt thing. Nature Immunology, 2006, 7, 1021-1023.	7.0	34
52	Clonal interrogation of stem cells. Nature Methods, 2011, 8, S36-S40.	9.0	34
53	A phase 1 trial evaluating thioridazine in combination with cytarabine in patients with acute myeloid leukemia. Blood Advances, 2018, 2, 1935-1945.	2.5	34
54	Inability of Human Induced Pluripotent Stem Cell-Hematopoietic Derivatives to Downregulate MicroRNAs In Vivo Reveals a Block in Xenograft Hematopoietic Regeneration. Stem Cells, 2012, 30, 131-139.	1.4	33

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55	Pleiotropic roles of Notch signaling in normal, malignant, and developmental hematopoiesis in the human. EMBO Reports, 2014, 15, 1128-1138.	2.0	30
56	Expansive Generation of Functional Airway Epithelium From Human Embryonic Stem Cells. Stem Cells Translational Medicine, 2014, 3, 7-17.	1.6	28
57	Brief Report: Human Acute Myeloid Leukemia Reprogramming to Pluripotency Is a Rare Event and Selects for Patient Hematopoietic Cells Devoid of Leukemic Mutations. Stem Cells, 2017, 35, 2095-2102.	1.4	27
58	CXCL12/CXCR4 Signaling Enhances Human PSC-Derived Hematopoietic ProgenitorÂFunction and Overcomes Early InÂVivo Transplantation Failure. Stem Cell Reports, 2018, 10, 1625-1641.	2.3	27
59	Human embryonic stem cells: lessons from stem cell niches <i>inÂvivo</i>. Regenerative Medicine, 2008, 3, 365-376.	0.8	26
60	Pluripotent Transcription Factors Possess Distinct Roles in Normal versus Transformed Human Stem Cells. PLoS ONE, 2009, 4, e8065.	1.1	26
61	Wnt3a Activates Dormant c-Kitâˆ' Bone Marrow-Derived Cells with Short-Term Multilineage Hematopoietic Reconstitution Capacity Â. Stem Cells, 2010, 28, 1379-1389.	1.4	24
62	Clonal tracking of hESCs reveals differential contribution to functional assays. Nature Methods, 2010, 7, 917-922.	9.0	24
63	Nonhematopoietic cells represent a more rational target of inÂvivo hedgehog signaling affecting normal or acute myeloid leukemia progenitors. Experimental Hematology, 2013, 41, 858-869.e4.	0.2	22
64	Chemotherapy-Induced Neuropathy and Drug Discovery Platform Using Human Sensory Neurons Converted Directly from Adult Peripheral Blood. Stem Cells Translational Medicine, 2019, 8, 1180-1191.	1.6	22
65	Activin A Promotes Hematopoietic Fated Mesoderm Development Through Upregulation of Brachyury in Human Embryonic Stem Cells. Stem Cells and Development, 2012, 21, 2866-2877.	1.1	21
66	Hematopoietic Development from Human Embryonic Stem Cells. Hematology American Society of Hematology Education Program, 2007, 2007, 11-16.	0.9	16
67	Microenvironment Mimicry. Science, 2010, 329, 1024-1025.	6.0	14
68	Gli3-mediated hedgehog inhibition in human pluripotent stem cells initiates and augments developmental programming of adult hematopoiesis. Blood, 2013, 121, 1543-1552.	0.6	14
69	Cellular Reprogramming Allows Generation of Autologous Hematopoietic Progenitors From AML Patients That Are Devoid of Patient-Specific Genomic Aberrations. Stem Cells, 2015, 33, 1839-1849.	1.4	14
70	Derivation and Characterization of Hematopoietic Cells From Human Embryonic Stem Cells. , 2006, 331, 179-200.		13
71	Targeting SUMOylation dependency in human cancer stem cells through a unique SAE2 motif revealed by chemical genomics. Cell Chemical Biology, 2021, 28, 1394-1406.e10.	2.5	13
72	Human Embryonic Stem Cell-Derived Hematopoietic Cells Maintain Core Epigenetic Machinery of the Polycomb Group/Trithorax Group Complexes Distinctly from Functional Adult Hematopoietic Stem Cells. Stem Cells and Development, 2013, 22, 73-89.	1.1	11

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73	Reversible Lineage-Specific Priming of Human Embryonic Stem Cells Can Be Exploited to Optimize the Yield of Differentiated Cells. Stem Cells, 2015, 33, 1142-1152.	1.4	11
74	Hematopoiesis from Human Embryonic Stem Cells. Annals of the New York Academy of Sciences, 2007, 1106, 219-222.	1.8	10
75	Phosphorylation state of the histone variant H2A.X controls human stem and progenitor cell fate decisions. Cell Reports, 2021, 34, 108818.	2.9	10
76	Bone marrow localization and functional properties of human hematopoietic stem cells. Current Opinion in Hematology, 2014, 21, 249-255.	1.2	8
77	Acquisition of pluripotency through continued environmental influence on OCT4-induced plastic human fibroblasts. Stem Cell Research, 2015, 15, 221-230.	0.3	5
78	Abnormal dopamine receptor signaling allows selective therapeutic targeting of neoplastic progenitors in AML patients. Cell Reports Medicine, 2021, 2, 100202.	3.3	5
79	Brief Report: Ectopic Expression of Nup98-HoxA10 Augments Erythroid Differentiation of Human Embryonic Stem Cells. Stem Cells, 2011, 29, 736-741.	1.4	4
80	Differential Dependence On Wnt Signaling Allows Chemical Mediated Eradication of Human Acute Leukemia without Affecting Normal Blood Stem Cells. Blood, 2010, 116, 3278-3278.	0.6	4
81	Human pluripotency: A difficult state to make smart choices. Cell Cycle, 2012, 11, 2411-2412.	1.3	3
82	Foundational concepts of cell fate conversion to the hematopoietic lineage. Current Opinion in Genetics and Development, 2013, 23, 585-590.	1.5	3
83	Innate immune response of human pluripotent stem cell-derived airway epithelium. Innate Immunity, 2015, 21, 504-511.	1.1	3
84	Human pluripotent stem cells identify molecular targets of trisomy 12 in chronic lymphocytic leukemia patients. Cell Reports, 2021, 34, 108845.	2.9	3
85	Playing musical chairs with bone marrow transplantation to eliminate leukemia stem cells. Molecular and Cellular Oncology, 2015, 2, e988480.	0.3	1
86	Derivation of human induced pluripotent stem cells through continued exposure of OCT4-induced plastic human fibroblasts to reprogramming media. Stem Cell Research, 2015, 15, 240-242.	0.3	1
87	Part F: Directed Differentiation of Human Embryonic Stem Cells into Myeloid Cells. , 0, , 299-325.		0
88	Driving humanâ€"mouse avatars to understand the HSC niche. Cell Cycle, 2014, 13, 1511-1512.	1.3	0
89	Biting into a union of oncology and metabolism through leukemic stem cells. Cell Metabolism, 2022, 34, 801-802.	7.2	0
90	Challenges in Cell Fate Acquisition to Scid-Repopulating Activity from Hemogenic Endothelium of hiPSCs Derived from AML Patients Using Forced Transcription Factor Expression. Cells, 2022, 11, 1915.	1.8	0