

Alexander Medvinsky

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

5,935
citations

147801

31
h-index

182427

51
g-index

55
all docs

55
docs citations

55
times ranked

4863
citing authors

#	ARTICLE	IF	CITATIONS
1	Definitive Hematopoiesis Is Autonomously Initiated by the AGM Region. <i>Cell</i> , 1996, 86, 897-906.	28.9	1,349
2	Development of hematopoietic stem cell activity in the mouse embryo. <i>Immunity</i> , 1994, 1, 291-301.	14.3	804
3	Quantitative developmental anatomy of definitive haematopoietic stem cells/long-term repopulating units (HSC/RUs): role of the aorta-gonad-mesonephros (AGM) region and the yolk sac in colonisation of the mouse embryonic liver. <i>Development (Cambridge)</i> , 2002, 129, 4891-4899.	2.5	340
4	Embryonic origin of the adult hematopoietic system: advances and questions. <i>Development (Cambridge)</i> , 2011, 138, 1017-1031.	2.5	327
5	Blood flow controls bone vascular function and osteogenesis. <i>Nature Communications</i> , 2016, 7, 13601.	12.8	261
6	Extensive Hematopoietic Stem Cell Generation in the AGM Region via Maturation of VE-Cadherin+CD45+ Pre-Definitive HSCs. <i>Cell Stem Cell</i> , 2008, 3, 99-108.	11.1	242
7	Hierarchical organization and early hematopoietic specification of the developing HSC lineage in the AGM region. <i>Journal of Experimental Medicine</i> , 2011, 208, 1305-1315.	8.5	223
8	Highly potent human hematopoietic stem cells first emerge in the intraembryonic aorta-gonad-mesonephros region. <i>Journal of Experimental Medicine</i> , 2011, 208, 2417-2427.	8.5	204
9	Human haematopoietic stem cell development: from the embryo to the dish. <i>Development (Cambridge)</i> , 2017, 144, 2323-2337.	2.5	195
10	Functional identification of the hematopoietic stem cell niche in the ventral domain of the embryonic dorsal aorta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9399-9403.	7.1	183
11	Quantitative developmental anatomy of definitive haematopoietic stem cells/long-term repopulating units (HSC/RUs): role of the aorta-gonad-mesonephros (AGM) region and the yolk sac in colonisation of the mouse embryonic liver. <i>Development (Cambridge)</i> , 2002, 129, 4891-9.	2.5	152
12	Tracing the Origin of the HSC Hierarchy Reveals an SCF-Dependent, IL-3-Independent CD43 ^{hi} Embryonic Precursor. <i>Stem Cell Reports</i> , 2014, 3, 489-501.	4.8	122
13	Progressive divergence of definitive haematopoietic stem cells from the endothelial compartment does not depend on contact with the foetal liver. <i>Development (Cambridge)</i> , 2005, 132, 4179-4191.	2.5	119
14	Signaling from the Sympathetic Nervous System Regulates Hematopoietic Stem Cell Emergence during Embryogenesis. <i>Cell Stem Cell</i> , 2012, 11, 554-566.	11.1	106
15	Concealed expansion of immature precursors underpins acute burst of adult HSC activity in foetal liver. <i>Development (Cambridge)</i> , 2016, 143, 1284-1289.	2.5	102
16	Mouse extraembryonic arterial vessels harbor precursors capable of maturing into definitive HSCs. <i>Blood</i> , 2013, 122, 2338-2345.	1.4	84
17	Cellular Origin and Functional Relevance of Collagen I Production in the Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1859-1873.	6.1	82
18	Identification of the Niche and Phenotype of the First Human Hematopoietic Stem Cells. <i>Stem Cell Reports</i> , 2014, 2, 449-456.	4.8	79

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19	Inductive interactions mediated by interplay of asymmetric signalling underlie development of adult haematopoietic stem cells. <i>Nature Communications</i> , 2016, 7, 10784.	12.8	70
20	Alternative Runx1 promoter usage in mouse developmental hematopoiesis. <i>Blood Cells, Molecules, and Diseases</i> , 2009, 43, 35-42.	1.4	52
21	A lineage of diploid platelet-forming cells precedes polyploid megakaryocyte formation in the mouse embryo. <i>Blood</i> , 2014, 124, 2725-2729.	1.4	52
22	Understanding Hematopoietic Stem Cell Development through Functional Correlation of Their Proliferative Status with the Intra-aortic Cluster Architecture. <i>Stem Cell Reports</i> , 2017, 8, 1549-1562.	4.8	52
23	Multi-layered Spatial Transcriptomics Identify Secretory Factors Promoting Human Hematopoietic Stem Cell Development. <i>Cell Stem Cell</i> , 2020, 27, 822-839.e8.	11.1	51
24	A molecular roadmap of the AGM region reveals BMPER as a novel regulator of HSC maturation. <i>Journal of Experimental Medicine</i> , 2017, 214, 3731-3751.	8.5	50
25	Developing HSCs become Notch independent by the end of maturation in the AGM region. <i>Blood</i> , 2016, 128, 1567-1577.	1.4	46
26	The essential requirement for Runx1 in the development of the sternum. <i>Developmental Biology</i> , 2010, 340, 539-546.	2.0	44
27	Single-cell analyses and machine learning define hematopoietic progenitor and HSC-like cells derived from human PSCs. <i>Blood</i> , 2020, 136, 2893-2904.	1.4	44
28	Suppression of interneuron programs and maintenance of selected spinal motor neuron fates by the transcription factor AML1/Runx1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6451-6456.	7.1	37
29	Restoration of Runx1 Expression in the Tie2 Cell Compartment Rescues Definitive Hematopoietic Stem Cells and Extends Life of Runx1 Knockout Animals Until Birth. <i>Stem Cells</i> , 2009, 27, 1616-1624.	3.2	36
30	Runx1 is required for progression of CD41+ embryonic precursors into HSCs but not prior to this. <i>Development (Cambridge)</i> , 2014, 141, 3319-3323.	2.5	36
31	Transcription Factors Runx1 to 3 Are Expressed in the Lacrimal Gland Epithelium and Are Involved in Regulation of Gland Morphogenesis and Regeneration. , 2013, 54, 3115.		35
32	Cardiosphere-Derived Cells Require Endoglin for Paracrine-Mediated Angiogenesis. <i>Stem Cell Reports</i> , 2017, 8, 1287-1298.	4.8	35
33	Identification of the genes regulated by Wnt-4, a critical signal for commitment of the ovary. <i>Experimental Cell Research</i> , 2015, 332, 163-178.	2.6	34
34	Limb development genes underlie variation in human fingerprint patterns. <i>Cell</i> , 2022, 185, 95-112.e18.	28.9	30
35	Labeling of hematopoietic stem and progenitor cells in novel activatable EGFP reporter mice. <i>Genesis</i> , 2003, 36, 168-176.	1.6	27
36	The discovery of a source of adult hematopoietic cells in the embryo. <i>Development (Cambridge)</i> , 2008, 135, 2343-2346.	2.5	27

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37	The differentiation program of embryonic definitive hematopoietic stem cells is largely $\hat{\pm}4$ integrin independent. <i>Blood</i> , 2006, 108, 501-509.	1.4	26
38	Hematopoietic stem cell activity in the aorta-gonad-mesonephros region enhances after mid-day 11 of mouse development. <i>International Journal of Developmental Biology</i> , 2010, 54, 1055-1060.	0.6	24
39	A novel method for the generation of reaggregated organotypic cultures that permits juxtaposition of defined cell populations. <i>Genesis</i> , 2009, 47, 346-351.	1.6	22
40	Multifunctional reversible knockout/reporter system enabling fully functional reconstitution of the AML1/Runx1 locus and rescue of hematopoiesis. <i>Genesis</i> , 2006, 44, 115-121.	1.6	17
41	Transgenic tools for analysis of the haematopoietic system: Knock-in CD45 reporter and deleter mice. <i>Journal of Immunological Methods</i> , 2008, 337, 81-87.	1.4	17
42	Analysis of Runx1 Using Induced Gene Ablation Reveals Its Essential Role in Pre-liver HSC Development and Limitations of an In Vivo Approach. <i>Stem Cell Reports</i> , 2018, 11, 784-794.	4.8	12
43	Analysis of the Spatiotemporal Development of Hematopoietic Stem and Progenitor Cells in the Early Human Embryo. <i>Stem Cell Reports</i> , 2019, 12, 1056-1068.	4.8	12
44	Intrinsic factors and the embryonic environment influence the formation of extragonadal teratomas during gestation. <i>BMC Developmental Biology</i> , 2015, 15, 35.	2.1	10
45	Endothelio-hematopoietic relationship: getting closer to the beginnings. <i>BMC Biology</i> , 2011, 9, 88.	3.8	9
46	Vast Self-Renewal Potential of Human AGM Region HSCs Dramatically Declines in the Umbilical Cord Blood. <i>Stem Cell Reports</i> , 2020, 15, 811-816.	4.8	9
47	Deletion of Pten in CD45-expressing cells leads to development of T-cell lymphoblastic lymphoma but not myeloid malignancies. <i>Blood</i> , 2016, 127, 1907-1911.	1.4	7
48	Modulation of APLNR Signaling Is Required during the Development and Maintenance of the Hematopoietic System. <i>Stem Cell Reports</i> , 2021, 16, 727-740.	4.8	7
49	Postmenstrual gestational age should be used with care in studies of early human hematopoietic development. <i>Blood</i> , 2013, 121, 3051-3052.	1.4	6
50	Ontogeny of the Hematopoietic System. , 2016, , 1-14.		6
51	Directed Differentiation of Embryonic Stem Cells Using a Bead-Based Combinatorial Screening Method. <i>PLoS ONE</i> , 2014, 9, e104301.	2.5	4
52	In Search of Human Hematopoietic Stem Cell Identity. <i>Cell Stem Cell</i> , 2015, 16, 5-6.	11.1	3