Igor I Slukvin

List of Publications by Citations

73 papers	13,747 citations	28 h-index	78 g-index
78 ext. papers	15,348 ext. citations	6.8 avg, IF	6.03 L-index

#	Paper	IF	Citations
73	Induced pluripotent stem cell lines derived from human somatic cells. *Science*, **2007**, 318, 1917-20	33.3	8063
72	Human induced pluripotent stem cells free of vector and transgene sequences. *Science*, **2009**, 324, 797-801	33.3	1871
71	Human embryonic stem cell-derived CD34+ cells: efficient production in the coculture with OP9 stromal cells and analysis of lymphohematopoietic potential. *Blood*, **2005**, 105, 617-26	2.2	522
70	Hematopoietic and Endothelial Differentiation of Human Induced Pluripotent Stem Cells. *Stem Cells*, **2009**, 27, 559-567	5.8	352
69	Hematopoietic and endothelial differentiation of human induced pluripotent stem cells. *Stem Cells*, **2009**, 27, 559-67	5.8	289
68	Leukosialin (CD43) defines hematopoietic progenitors in human embryonic stem cell differentiation cultures. *Blood*, **2006**, 108, 2095-105	2.2	266
67	A mesoderm-derived precursor for mesenchymal stem and endothelial cells. *Cell Stem Cell*, **2010**, 7, 718-29	[illegible]	218
66	Efficient generation of transgene-free induced pluripotent stem cells from normal and neoplastic bone marrow and cord blood mononuclear cells. *Blood*, **2011**, 117, e109-19	2.2	196
65	Generation of mature human myelomonocytic cells through expansion and differentiation of pluripotent stem cell-derived lin-CD34+CD43+CD45+ progenitors. *Journal of Clinical Investigation*, **2009**, 119, 2818-29	15.9	153
64	Identification of the hemogenic endothelial progenitor and its direct precursor in human pluripotent stem cell differentiation cultures. *Cell Reports*, **2012**, 2, 553-67	10.6	142
63	Hematopoietic differentiation and production of mature myeloid cells from human pluripotent stem cells. *Nature Protocols*, **2011**, 6, 296-313	18.8	123
62	Direct induction of haematoendothelial programs in human pluripotent stem cells by transcriptional regulators. *Nature Communications*, **2014**, 5, 4372	17.4	119
61	Generation of red blood cells from human induced pluripotent stem cells. *Stem Cells and Development*, **2011**, 20, 1639-47	4.4	119
60	Specification and Diversification of Pericytes and Smooth Muscle Cells from Mesenchymoangioblasts. *Cell Reports*, **2017**, 19, 1902-1916	10.6	113
59	Nonirradiated NOD,B6.SCID Il2r□/- Kit(W41/W41) (NBSGW) mice support multilineage engraftment of human hematopoietic cells. *Stem Cell Reports*, **2015**, 4, 171-80	8	107
58	Directed differentiation of human embryonic stem cells into functional dendritic cells through the myeloid pathway. *Journal of Immunology*, **2006**, 176, 2924-32	5.3	105
57	CCR5 Disruption in Induced Pluripotent Stem Cells Using CRISPR/Cas9 Provides Selective Resistance of Immune Cells to CCR5-tropic HIV-1 Virus. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e268	10.7	94

56	Hematopoietic specification from human pluripotent stem cells: current advances and challenges toward de novo generation of hematopoietic stem cells. *Blood*, **2013**, 122, 4035-46	2.2	93
55	Production, safety and efficacy of iPSC-derived mesenchymal stromal cells in acute steroid-resistant graft versus host disease: a phase I, multicenter, open-label, dose-escalation study. *Nature Medicine*, **2020**, 26, 1720-1725	50.5	82
54	Tenascin C promotes hematoendothelial development and T lymphoid commitment from human pluripotent stem cells in chemically defined conditions. *Stem Cell Reports*, **2014**, 3, 1073-84	8	62
53	Hematoendothelial differentiation of human embryonic stem cells. *Current Protocols in Cell Biology*, **2007**, Chapter 23, Unit 23.6	2.3	52
52	NOTCH signaling specifies arterial-type definitive hemogenic endothelium from human pluripotent stem cells. *Nature Communications*, **2018**, 9, 1828	17.4	51
51	A defined, feeder-free, serum-free system to generate in vitro hematopoietic progenitors and differentiated blood cells from hESCs and hiPSCs. *PLoS ONE*, **2011**, 6, e17829	3.7	51
50	Endothelial origin of mesenchymal stem cells. *Cell Cycle*, **2011**, 10, 1370-3	4.7	35
49	Generating human hematopoietic stem cells in vitro -exploring endothelial to hematopoietic transition as a portal for stemness acquisition. *FEBS Letters*, **2016**, 590, 4126-4143	3.8	34
48	Brown-like adipose progenitors derived from human induced pluripotent stem cells: Identification of critical pathways governing their adipogenic capacity. *Scientific Reports*, **2016**, 6, 32490	4.9	32
47	Activation of the Arterial Program Drives Development of Definitive Hemogenic Endothelium with Lymphoid Potential. *Cell Reports*, **2018**, 23, 2467-2481	10.6	29
46	Deciphering the hierarchy of angiohematopoietic progenitors from human pluripotent stem cells. *Cell Cycle*, **2013**, 12, 720-7	4.7	28
45	Cymerus™iPSC-MSCs significantly prolong survival in a pre-clinical, humanized mouse model of Graft-vs-host disease. *Stem Cell Research*, **2019**, 35, 101401	1.6	26
44	Discovery of survival factor for primitive chronic myeloid leukemia cells using induced pluripotent stem cells. *Stem Cell Research*, **2015**, 15, 678-693	1.6	25
43	The mesenchymoangioblast, mesodermal precursor for mesenchymal and endothelial cells. *Cellular and Molecular Life Sciences*, **2018**, 75, 3507-3520	10.3	24
42	GATA2 Is Dispensable for Specification of Hemogenic Endothelium but Promotes Endothelial-to-Hematopoietic Transition. *Stem Cell Reports*, **2018**, 11, 197-211	8	22
41	GSK3β Inhibition Promotes Efficient Myeloid and Lymphoid Hematopoiesis from Non-human Primate-Induced Pluripotent Stem Cells. *Stem Cell Reports*, **2016**, 6, 243-56	8	21
40	Molecular profiling reveals similarities and differences between primitive subsets of hematopoietic cells generated in vitro from human embryonic stem cells and in vivo during embryogenesis. *Experimental Hematology*, **2008**, 36, 1377-89	3.1	17
39	Arterial identity of hemogenic endothelium: a key to unlock definitive hematopoietic commitment in human pluripotent stem cell cultures. *Experimental Hematology*, **2019**, 71, 3-12	3.1	17

38	Optimization of Synthetic mRNA for Highly Efficient Translation and its Application in the Generation of Endothelial and Hematopoietic Cells from Human and Primate Pluripotent Stem Cells. *Stem Cell Reviews and Reports*, **2018**, 14, 525-534	6.4	15
37	Differential requirements for hematopoietic commitment between human and rhesus embryonic stem cells. *Stem Cells*, **2007**, 25, 490-9	5.8	15
36	Combined serous microcystic adenoma and well-differentiated endocrine pancreatic neoplasm: a case report and review of the literature. *Archives of Pathology and Laboratory Medicine*, **2003**, 127, 1369-72	5	15
35	Selective expression of NKG2-A and NKG2-C mRNAs and novel alternative splicing of 5Uexons in rhesus monkey decidua. *Immunogenetics*, **2001**, 53, 69-73	3.2	11
34	Functional Heterogeneity of Endothelial Cells Derived from Human Pluripotent Stem Cells. *Stem Cells and Development*, **2018**, 27, 524-533	4.4	10
33	Effective and Rapid Generation of Functional Neutrophils from Induced Pluripotent Stem Cells Using ETV2-Modified mRNA. *Stem Cell Reports*, **2019**, 13, 1099-1110	8	9
32	NOTCH Activation at the Hematovascular Mesoderm Stage Facilitates Efficient Generation of T Cells with High Proliferation Potential from Human Pluripotent Stem Cells. *Journal of Immunology*, **2019**, 202, 770-776	5.3	9
31	Genetic Engineering of Human Pluripotent Stem Cells Using PiggyBac Transposon System. *Current Protocols in Stem Cell Biology*, **2018**, 47, e63	2.8	9
30	UM171 expands distinct types of myeloid and NK progenitors from human pluripotent stem cells. *Scientific Reports*, **2019**, 9, 6622	4.9	8
29	Directed differentiation of human embryonic stem cells to dendritic cells. *Methods in Molecular Biology*, **2007**, 407, 275-93	1.4	8
28	A human VE-cadherin-tdTomato and CD43-green fluorescent protein dual reporter cell line for study endothelial to hematopoietic transition. *Stem Cell Research*, **2016**, 17, 401-405	1.6	8
27	Lymphoepithelioma-like carcinoma of the vulva: a case report. *Journal of Lower Genital Tract Disease*, **2003**, 7, 136-9	3.6	7
26	Morphologic studies of the placenta and autopsy findings in neonatal-onset glutaric acidemia type II. *Pediatric and Developmental Pathology*, **2002**, 5, 315-21	2.2	7
25	Renin-angiotensin system and hemangioblast development from human embryonic stem cells. *Expert Review of Hematology*, **2009**, 2, 137-43	2.8	6
24	Genome editing of CCR5 by CRISPR-Cas9 in Mauritian cynomolgus macaque embryos. *Scientific Reports*, **2020**, 10, 18457	4.9	6
23	SOX17 integrates HOXA and arterial programs in hemogenic endothelium to drive definitive lympho-myeloid hematopoiesis. *Cell Reports*, **2021**, 34, 108758	10.6	6
22	Wnt signaling inhibitor FH535 selectively inhibits cell proliferation and potentiates imatinib-induced apoptosis in myeloid leukemia cell lines. *International Journal of Hematology*, **2017** , 105, 196-205	2.3	5
21	Generation of mature blood cells from pluripotent stem cells. *Haematologica*, **2010**, 95, 1621-3	6.6	5

20	3D iPSC modeling of the retinal pigment epithelium-choriocapillaris complex identifies factors involved in the pathology of macular degeneration. *Cell Stem Cell*, **2021**, 28, 846-862.e8	18	5
19	Direct Induction of Hemogenic Endothelium and Blood by Overexpression of Transcription Factors in Human Pluripotent Stem Cells. *Journal of Visualized Experiments*, **2015**, e52910	1.6	4
18	A Phase I Trial of iPSC-Derived MSCs (CYP-001) in Steroid-Resistant Acute GvHD. *Blood*, **2018**, 132, 4562-4562	2.2	4
17	Major Histocompatibility Complex-Matched Arteries Have Similar Patency to Autologous Arteries in a Mauritian Cynomolgus Macaque Major Histocompatibility Complex-Defined Transplant Model. *Journal of the American Heart Association*, **2019**, 8, e012135	6	3
16	Induction of Pluripotent Stem Cells from Umbilical Cord Blood **2012**,		3
15	Epicardial origin of cardiac CFU-Fs. *Cell Stem Cell*, **2011**, 9, 492-3	18	3
14	Neoplastic blood cells become pluripotent. *Blood*, **2009**, 114, 5409-10	2.2	2
13	SOX17 Is Essential for Integration of Arterial and HOXA Programs in Hemogenic Endothelium. *Blood*, **2019**, 134, 2476-2476	2.2	2
12	Generation of T cells from Human and Nonhuman Primate Pluripotent Stem Cells. *Bio-protocol*, **2020**, 10, e3675	0.9	2
11	Cryopreservation of Mauritian Cynomolgus Macaque () Sperm in Chemically Defined Medium. *Journal of the American Association for Laboratory Animal Science*, **2020**, 59, 681-686	1.3	2
10	Megakaryocytic Expansion in Gilteritinib-Treated Acute Myeloid Leukemia Patients Is Associated With AXL Inhibition. *Frontiers in Oncology*, **2020**, 10, 585151	5.3	2
9	Efficient Induction of Myleoid and Lymphoid Hematopoiesis from Nonhuman Primate Pluripotent Stem Cells Using GSK3b Inhibitor. *Blood*, **2015**, 126, 2363-2363	2.2	1
8	Generation of Human Neutrophils from Induced Pluripotent Stem Cells in Chemically Defined Conditions Using Modified mRNA. *STAR Protocols*, **2020**, 1, 100075-100075	1.4	1
7	Induced pluripotent stem cells□derived hematopoietic progenitors for cellular immunotherapies **2022**, 233-263		0
6	Transplantation of T-cell receptor Æ□depleted allogeneic bone marrow in nonhuman primates. *Experimental Hematology*, **2021**, 93, 44-51	3.1	0
5	Hematopoietic Differentiation of Human Induced Pluripotent Stem Cells. *Blood*, **2008**, 112, 731-731	2.2	
4	Identification of Hemogenic Endothelium and Its Direct Precursor in Human Embryonic Stem Cell Differentiation Cultures. *Blood*, **2011**, 118, 1277-1277	2.2	
3	Modeling CML Development and Drug Resistance Using iPSC Technology,. *Blood*, **2011**, 118, 3767-3767	2.2	

2	Identification of Distinct Pathways Involved in Regulation of Mesenchymoangioblasts and Hemangioblasts Development From Mesoderm. *Blood*, **2011**, 118, 1326-1326	2.2
1	Assessment of Endothelial-to-Hematopoietic Transition of Individual Hemogenic Endothelium and Bulk Populations in Defined Conditions.. *Methods in Molecular Biology*, **2022**, 2429, 103-124	1.4