Gordon M Keller

List of Publications by Citations

172 papers	25,618 citations	78 h-index	159 g-index
182 ext. papers	28,985 ext. citations	14.4 avg, IF	6.99 L-index

#	Paper	IF	Citations
172	Differentiation of embryonic stem cells to clinically relevant populations: lessons from embryonic development. *Cell*, **2008**, 132, 661-80	56.2	1369
171	An early haematopoietic defect in mice lacking the transcription factor GATA-2. *Nature*, **1994**, 371, 221-6	50.4	1199
170	Human cardiovascular progenitor cells develop from a KDR+ embryonic-stem-cell-derived population. *Nature*, **2008**, 453, 524-8	50.4	1142
169	Embryonic stem cell differentiation: emergence of a new era in biology and medicine. *Genes and Development*, **2005**, 19, 1129-55	12.6	879
168	Stage-specific optimization of activin/nodal and BMP signaling promotes cardiac differentiation of mouse and human pluripotent stem cell lines. *Cell Stem Cell*, **2011**, 8, 228-40	18	865
167	In vitro differentiation of embryonic stem cells. *Current Opinion in Cell Biology*, **1995**, 7, 862-9	9	754
166	Development of definitive endoderm from embryonic stem cells in culture. *Development (Cambridge)*, **2004**, 131, 1651-62	6.6	662
165	Biowire: a platform for maturation of human pluripotent stem cell-derived cardiomyocytes. *Nature Methods*, **2013**, 10, 781-7	21.6	624
164	Multipotent flk-1+ cardiovascular progenitor cells give rise to the cardiomyocyte, endothelial, and vascular smooth muscle lineages. *Developmental Cell*, **2006**, 11, 723-32	10.2	599
163	Haemangioblast commitment is initiated in the primitive streak of the mouse embryo. *Nature*, **2004** , 432, 625-30	50.4	538
162	A common precursor for primitive erythropoiesis and definitive haematopoiesis. *Nature*, **1997**, 386, 488-93	50.4	530
161	Expression of a foreign gene in myeloid and lymphoid cells derived from multipotent haematopoietic precursors. *Nature*, **1985**, 318, 149-54	50.4	509
160	Production of de novo cardiomyocytes: human pluripotent stem cell differentiation and direct reprogramming. *Cell Stem Cell*, **2012**, 10, 16-28	18	478
159	Dynamic and coordinated epigenetic regulation of developmental transitions in the cardiac lineage. *Cell*, **2012**, 151, 206-20	56.2	458
158	Single cell RNA sequencing of human liver reveals distinct intrahepatic macrophage populations. *Nature Communications*, **2018**, 9, 4383	17.4	452
157	Wnt and TGF-beta signaling are required for the induction of an in vitro model of primitive streak formation using embryonic stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16806-11	11.5	442
156	SIRPA is a specific cell-surface marker for isolating cardiomyocytes derived from human pluripotent stem cells. *Nature Biotechnology*, **2011**, 29, 1011-8	44.5	421

155	Tracking mesoderm induction and its specification to the hemangioblast during embryonic stem cell differentiation. *Development (Cambridge)*, **2003**, 130, 4217-27	6.6	405
154	Ductal pancreatic cancer modeling and drug screening using human pluripotent stem cell- and patient-derived tumor organoids. *Nature Medicine*, **2015**, 21, 1364-71	50.5	403
153	BMP-4 is required for hepatic specification of mouse embryonic stem cell-derived definitive endoderm. *Nature Biotechnology*, **2006**, 24, 1402-11	44.5	357
152	Biodegradable scaffold with built-in vasculature for organ-on-a-chip engineering and direct surgical anastomosis. *Nature Materials*, **2016**, 15, 669-78	27	354
151	Development of the hemangioblast defines the onset of hematopoiesis in human ES cell differentiation cultures. *Blood*, **2007**, 109, 2679-87	2.2	353
150	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. *Circulation*, **2017**, 135, 1832-1847	16.7	328
149	Metformin activates an atypical PKC-CBP pathway to promote neurogenesis and enhance spatial memory formation. *Cell Stem Cell*, **2012**, 11, 23-35	18	313
148	Stage-specific signaling through TGF family members and WNT regulates patterning and pancreatic specification of human pluripotent stem cells. *Development (Cambridge)*, **2011**, 138, 861-71	6.6	295
147	Haematopoietic stem and progenitor cells from human pluripotent stem cells. *Nature*, **2017**, 545, 432-438	50.4	279
146	T lymphocyte potential marks the emergence of definitive hematopoietic progenitors in human pluripotent stem cell differentiation cultures. *Cell Reports*, **2012**, 2, 1722-35	10.6	268
145	Generation of anterior foregut endoderm from human embryonic and induced pluripotent stem cells. *Nature Biotechnology*, **2011**, 29, 267-72	44.5	266
144	A temporal chromatin signature in human embryonic stem cells identifies regulators of cardiac development. *Cell*, **2012**, 151, 221-32	56.2	254
143	Wnt signaling controls the specification of definitive and primitive hematopoiesis from human pluripotent stem cells. *Nature Biotechnology*, **2014**, 32, 554-61	44.5	244
142	Runx1 is essential for hematopoietic commitment at the hemangioblast stage of development in vitro. *Blood*, **2002**, 100, 458-66	2.2	243
141	A Platform for Generation of Chamber-Specific Cardiac Tissues and Disease Modeling. *Cell*, **2019**, 176, 913-927.e18	56.2	239
140	Wnt, activin, and BMP signaling regulate distinct stages in the developmental pathway from embryonic stem cells to blood. *Cell Stem Cell*, **2008**, 2, 60-71	18	235
139	Rescue of erythroid development in gene targeted GATA-1- mouse embryonic stem cells. *Nature Genetics*, **1992**, 1, 92-8	36.3	234
138	Identification and targeting of the ROSA26 locus in human embryonic stem cells. *Nature Biotechnology*, **2007**, 25, 1477-82	44.5	222

137	Human Pluripotent Stem Cell-Derived Atrial and Ventricular Cardiomyocytes Develop from Distinct Mesoderm Populations. *Cell Stem Cell*, **2017**, 21, 179-194.e4	18	210
136	Design and formulation of functional pluripotent stem cell-derived cardiac microtissues. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4698-707	11.5	209
135	Sinoatrial node cardiomyocytes derived from human pluripotent cells function as a biological pacemaker. *Nature Biotechnology*, **2017**, 35, 56-68	44.5	204
134	Retrovirus transfer of a bacterial gene into mouse haematopoietic progenitor cells. *Nature*, **1983**, 305, 556-8	50.4	199
133	Directed differentiation of cholangiocytes from human pluripotent stem cells. *Nature Biotechnology*, **2015**, 33, 853-61	44.5	193
132	Engraftment and Development of Human CD34+-Enriched Cells From Umbilical Cord Blood in NOD/LtSz-scid/scid Mice. *Blood*, **1997**, 90, 85-96	2.2	191
131	Simple and high yielding method for preparing tissue specific extracellular matrix coatings for cell culture. *PLoS ONE*, **2010**, 5, e13039	3.7	190
130	Efficient generation of NKX6-1+ pancreatic progenitors from multiple human pluripotent stem cell lines. *Stem Cell Reports*, **2015**, 4, 591-604	8	180
129	FOXO1 is an essential regulator of pluripotency in human embryonic stem cells. *Nature Cell Biology*, **2011**, 13, 1092-9	23.4	180
128	The effect of cyclic stretch on maturation and 3D tissue formation of human embryonic stem cell-derived cardiomyocytes. *Biomaterials*, **2014**, 35, 2798-808	15.6	177
127	The beta-globin LCR is not necessary for an open chromatin structure or developmentally regulated transcription of the native mouse beta-globin locus. *Molecular Cell*, **1998**, 2, 447-55	17.6	175
126	Human definitive haemogenic endothelium and arterial vascular endothelium represent distinct lineages. *Nature Cell Biology*, **2015**, 17, 580-91	23.4	168
125	Induced pluripotent stem cells used to reveal drug actions in a long QT syndrome family with complex genetics. *Journal of General Physiology*, **2013**, 141, 61-72	3.4	158
124	Sequential development of hematopoietic and cardiac mesoderm during embryonic stem cell differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 13170-5	11.5	153
123	Mechanism-based facilitated maturation of human pluripotent stem cell-derived cardiomyocytes. *Circulation: Arrhythmia and Electrophysiology*, **2013**, 6, 191-201	6.4	140
122	Differential long-term and multilineage engraftment potential from subfractions of human CD34+ cord blood cells transplanted into NOD/SCID mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 413-8	11.5	139
121	Mouse embryonic stem cell-derived embryoid bodies generate progenitors that integrate long term into renal proximal tubules in vivo. *Journal of the American Society of Nephrology: JASN*, **2007**, 18, 1709-20	12.7	132
120	Distinct roles of microRNA-1 and -499 in ventricular specification and functional maturation of human embryonic stem cell-derived cardiomyocytes. *PLoS ONE*, **2011**, 6, e27417	3.7	131

119	Retinoic acid signaling is essential for embryonic hematopoietic stem cell development. *Cell*, **2013**, 155, 215-27	56.2	128
118	Human Embryonic Stem Cell-Derived Cardiomyocytes Regenerate the Infarcted Pig Heart but Induce Ventricular Tachyarrhythmias. *Stem Cell Reports*, **2019**, 12, 967-981	8	127
117	Generation of the epicardial lineage from human pluripotent stem cells. *Nature Biotechnology*, **2014**, 32, 1026-35	44.5	127
116	Development of the hematopoietic system in the mouse. *Experimental Hematology*, **1999**, 27, 777-87	3.1	127
115	Leptin Stimulates Fetal and Adult Erythroid and Myeloid Development. *Blood*, **1997**, 89, 1507-1512	2.2	123
114	Directed differentiation of hematopoietic precursors and functional osteoclasts from human ES and iPS cells. *Blood*, **2010**, 115, 2769-76	2.2	117
113	Hypoxia affects mesoderm and enhances hemangioblast specification during early development. *Development (Cambridge)*, **2004**, 131, 4623-34	6.6	117
112	Three-dimensional culture and cAMP signaling promote the maturation of human pluripotent stem cell-derived hepatocytes. *Development (Cambridge)*, **2013**, 140, 3285-96	6.6	113
111	Generation of articular chondrocytes from human pluripotent stem cells. *Nature Biotechnology*, **2015**, 33, 638-45	44.5	110
110	Development and function of myeloid-derived suppressor cells generated from mouse embryonic and hematopoietic stem cells. *Stem Cells*, **2010**, 28, 620-32	5.8	110
109	SCL/Tal-1 is essential for hematopoietic commitment of the hemangioblast but not for its development. *Blood*, **2005**, 105, 3862-70	2.2	109
108	Germ layer induction from embryonic stem cells. *Experimental Hematology*, **2005**, 33, 955-64	3.1	109
107	Committing embryonic stem cells to early endocrine pancreas in vitro. *Stem Cells*, **2004**, 22, 1205-17	5.8	108
106	Autonomous beating rate adaptation in human stem cell-derived cardiomyocytes. *Nature Communications*, **2016**, 7, 10312	17.4	104
105	Developmental regulation of yolk sac hematopoiesis by Kruppel-like factor 6. *Blood*, **2006**, 107, 1357-65	2.2	104
104	The expression of Sox17 identifies and regulates haemogenic endothelium. *Nature Cell Biology*, **2013**, 15, 502-10	23.4	100
103	Microfabricated perfusable cardiac biowire: a platform that mimics native cardiac bundle. *Lab on A Chip*, **2014**, 14, 869-82	7.2	98
102	Ankrd11 is a chromatin regulator involved in autism that is essential for neural development. *Developmental Cell*, **2015**, 32, 31-42	10.2	92

101	Mechanical Stress Promotes Maturation of Human Myocardium From Pluripotent Stem Cell-Derived Progenitors. *Stem Cells*, **2015**, 33, 2148-57	5.8	85
100	Parthenogenetic stem cells for tissue-engineered heart repair. *Journal of Clinical Investigation*, **2013**, 123, 1285-98	15.9	85
99	Generating ring-shaped engineered heart tissues from ventricular and atrial human pluripotent stem cell-derived cardiomyocytes. *Nature Communications*, **2020**, 11, 75	17.4	82
98	Identification of a fetal hematopoietic precursor with B cell, T cell, and macrophage potential. *Immunity*, **1998**, 9, 827-38	32.3	81
97	Comparison of Human Embryonic Stem Cell-Derived Cardiomyocytes, Cardiovascular Progenitors, and Bone Marrow Mononuclear Cells for Cardiac Repair. *Stem Cell Reports*, **2015**, 5, 753-762	8	80
96	Specification of chondrocytes and cartilage tissues from embryonic stem cells. *Development (Cambridge)*, **2013**, 140, 2597-610	6.6	79
95	Generation of beta cells from human pluripotent stem cells: Potential for regenerative medicine. *Seminars in Cell and Developmental Biology*, **2012**, 23, 701-10	7.5	78
94	Interrogating functional integration between injected pluripotent stem cell-derived cells and surrogate cardiac tissue. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3329-34	11.5	74
93	A view of human haematopoietic development from the Petri dish. *Nature Reviews Molecular Cell Biology*, **2017**, 18, 56-67	48.7	72
92	The in vitro production and characterization of neutrophils from embryonic stem cells. *Blood*, **2004**, 103, 852-9	2.2	72
91	Overexpression of HOX11 Leads to the Immortalization of Embryonic Precursors With Both Primitive and Definitive Hematopoietic Potential. *Blood*, **1998**, 92, 877-887	2.2	72
90	Numb mediates the interaction between Wnt and Notch to modulate primitive erythropoietic specification from the hemangioblast. *Development (Cambridge)*, **2008**, 135, 3447-58	6.6	70
89	Notch signaling respecifies the hemangioblast to a cardiac fate. *Nature Biotechnology*, **2008**, 26, 1169-78	44.5	67
88	Specification of multipotential cardiovascular progenitor cells during embryonic stem cell differentiation and embryonic development. *Trends in Cardiovascular Medicine*, **2007**, 17, 240-6	6.9	66
87	Regulation of hemangioblast development. *Annals of the New York Academy of Sciences*, **2001**, 938, 96-107; discussion 108	6.5	64
86	Temporal specification of blood progenitors from mouse embryonic stem cells and induced pluripotent stem cells. *Development (Cambridge)*, **2010**, 137, 2829-39	6.6	63
85	Human Pluripotent Stem Cell-Derived Cardiovascular Cells: From Developmental Biology to Therapeutic Applications. *Cell Stem Cell*, **2019**, 25, 311-327	18	59
84	Alternative induced pluripotent stem cell characterization criteria for in vitro applications. *Cell Stem Cell*, **2009**, 4, 198-9; author reply 202	18	59

83	Apoptosis in human glioblastoma cells produced using embryonic stem cell-derived astrocytes expressing tumor necrosis factor-related apoptosis-inducing ligand. *Journal of Neurosurgery*, **2006**, 105, 88-95	3.2	59
82	Committing embryonic stem cells to differentiate into thyrocyte-like cells in vitro. *Endocrinology*, **2003**, 144, 2644-9	4.8	59
81	Serial in vivo positive contrast MRI of iron oxide-labeled embryonic stem cell-derived cardiac precursor cells in a mouse model of myocardial infarction. *Magnetic Resonance in Medicine*, **2008**, 60, 73-81	4.4	57
80	Directed differentiation of mouse embryonic stem cells into thyroid follicular cells. *Endocrinology*, **2006**, 147, 3007-15	4.8	57
79	Haploinsufficiency of Runx1 results in the acceleration of mesodermal development and hemangioblast specification upon in vitro differentiation of ES cells. *Blood*, **2004**, 103, 886-9	2.2	56
78	The homeobox gene HEX regulates proliferation and differentiation of hemangioblasts and endothelial cells during ES cell differentiation. *Blood*, **2005**, 105, 4590-7	2.2	56
77	Site-specific integration of adeno-associated virus involves partial duplication of the target locus. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7571-6	11.5	53
76	Modeling Atrial Fibrillation using Human Embryonic Stem Cell-Derived Atrial Tissue. *Scientific Reports*, **2017**, 7, 5268	4.9	45
75	Essential Gene Profiles for Human Pluripotent Stem Cells Identify Uncharacterized Genes and Substrate Dependencies. *Cell Reports*, **2019**, 27, 599-615.e12	10.6	42
74	Hematopoietic commitment of ES cells in culture. *Methods in Enzymology*, **2003**, 365, 39-59	1.7	41
73	Defining the path to hematopoietic stem cells. *Nature Biotechnology*, **2013**, 31, 416-8	44.5	40
72	Generation of purified stromal cell cultures that support lymphoid and myeloid precursors. *Journal of Immunological Methods*, **1986**, 89, 37-47	2.5	39
71	Biophysical properties of slow potassium channels in human embryonic stem cell derived cardiomyocytes implicate subunit stoichiometry. *Journal of Physiology*, **2011**, 589, 6093-104	3.9	37
70	An endothelial cell niche induces hepatic specification through dual repression of Wnt and Notch signaling. *Stem Cells*, **2011**, 29, 217-28	5.8	37
69	Acceleration of mesoderm development and expansion of hematopoietic progenitors in differentiating ES cells by the mouse Mix-like homeodomain transcription factor. *Blood*, **2006**, 107, 3122-30	2.2	37
68	Hematopoietic commitment during embryogenesis. *Annals of the New York Academy of Sciences*, **1999**, 872, 9-15; discussion 15-6	6.5	37
67	Fetal reprogramming and senescence in hypoplastic left heart syndrome and in human pluripotent stem cells during cardiac differentiation. *American Journal of Pathology*, **2013**, 183, 720-34	5.8	36
66	Pdx1 and Ngn3 overexpression enhances pancreatic differentiation of mouse ES cell-derived endoderm population. *PLoS ONE*, **2011**, 6, e24058	3.7	36

65	Generation of monoclonal antibodies specific for cell surface molecules expressed on early mouse endoderm. *Stem Cells*, **2009**, 27, 2103-13	5.8	36
64	Smad1 expands the hemangioblast population within a limited developmental window. *Blood*, **2007**, 109, 516-23	2.2	36
63	Tracking mesoderm formation and specification to the hemangioblast in vitro. *Trends in Cardiovascular Medicine*, **2004**, 14, 314-7	6.9	34
62	Hematopoietic stem cells. *Current Opinion in Immunology*, **1992**, 4, 133-9	7.8	34
61	SCL interacts with VEGF to suppress apoptosis at the onset of hematopoiesis. *Development (Cambridge)*, **2004**, 131, 693-702	6.6	33
60	Modeling altered T-cell development with induced pluripotent stem cells from patients with RAG1-dependent immune deficiencies. *Blood*, **2016**, 128, 783-93	2.2	32
59	The homeobox gene Hex regulates hepatocyte differentiation from embryonic stem cell-derived endoderm. *Hepatology*, **2010**, 51, 633-41	11.2	31
58	Hedgehog inhibits β-catenin activity in synovial joint development and osteoarthritis. *Journal of Clinical Investigation*, **2016**, 126, 1649-63	15.9	31
57	Ibrutinib Displays Atrial-Specific Toxicity in Human Stem Cell-Derived Cardiomyocytes. *Stem Cell Reports*, **2019**, 12, 996-1006	8	30
56	Serum-free differentiation of functional human coronary-like vascular smooth muscle cells from embryonic stem cells. *Cardiovascular Research*, **2013**, 98, 125-35	9.9	30
55	Mouse Mix gene is activated early during differentiation of ES and F9 stem cells and induces endoderm in frog embryos. *Developmental Dynamics*, **2003**, 226, 446-59	2.9	30
54	Primitive erythropoiesis is regulated by miR-126 via nonhematopoietic Vcam-1+ cells. *Developmental Cell*, **2012**, 23, 45-57	10.2	29
53	Enzymatically degradable poly(ethylene glycol) hydrogels for the 3D culture and release of human embryonic stem cell derived pancreatic precursor cell aggregates. *Acta Biomaterialia*, **2015**, 22, 103-10	10.8	28
52	Enhanced proapoptotic effects of tumor necrosis factor-related apoptosis-inducing ligand on temozolomide-resistant glioma cells. *Journal of Neurosurgery*, **2007**, 106, 646-51	3.2	27
51	Expression of Fc gamma RIII defines distinct subpopulations of fetal liver B cell and myeloid precursors. *European Journal of Immunology*, **1995**, 25, 2308-17	6.1	26
50	Transplanted microvessels improve pluripotent stem cell-derived cardiomyocyte engraftment and cardiac function after infarction in rats. *Science Translational Medicine*, **2020**, 12,	17.5	26
49	Micro-arrayed human embryonic stem cells-derived cardiomyocytes for in vitro functional assay. *PLoS ONE*, **2012**, 7, e48483	3.7	25
48	Evolutionarily conserved intercalated disc protein Tmem65 regulates cardiac conduction and connexin 43 function. *Nature Communications*, **2015**, 6, 8391	17.4	23

47	Transforming the promise of pluripotent stem cell-derived cardiomyocytes to a therapy: challenges and solutions for clinical trials. *Canadian Journal of Cardiology*, **2014**, 30, 1335-49	3.8	23
46	Generation of mature compact ventricular cardiomyocytes from human pluripotent stem cells. *Nature Communications*, **2021**, 12, 3155	17.4	23
45	Embryonic stem cell-derived astrocytes expressing drug-inducible transgenes: differentiation and transplantion into the mouse brain. *Journal of Neurosurgery*, **2005**, 103, 115-23	3.2	21
44	BMP10 Signaling Promotes the Development of Endocardial Cells from Human Pluripotent Stem Cell-Derived Cardiovascular Progenitors. *Cell Stem Cell*, **2021**, 28, 96-111.e7	18	21
43	In vivo detection of embryonic stem cell-derived cardiovascular progenitor cells using Cy3-labeled Gadofluorine M in murine myocardium. *JACC: Cardiovascular Imaging*, **2009**, 2, 1114-22	8.4	20
42	In vivo gene delivery by embryonic-stem-cell-derived astrocytes for malignant gliomas. *Neuro-Oncology*, **2009**, 11, 102-8	1	19
41	The heart LIM protein gene (Hlp), expressed in the developing and adult heart, defines a new tissue-specific LIM-only protein family. *Mechanisms of Development*, **2002**, 116, 187-92	1.7	19
40	Cardioprotective GLP-1 metabolite prevents ischemic cardiac injury by inhibiting mitochondrial trifunctional protein- *Journal of Clinical Investigation*, **2020**, 130, 1392-1404	15.9	19
39	Human Stem Cell-Derived Cardiac Model of Chronic Drug Exposure. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1911-1921	5.5	18
38	Substrate and mechanotransduction influence SERCA2a localization in human pluripotent stem cell-derived cardiomyocytes affecting functional performance. *Stem Cell Research*, **2017**, 25, 107-114	1.6	18
37	Generation of Functional Liver Sinusoidal Endothelial Cells from Human Pluripotent Stem-Cell-Derived Venous Angioblasts. *Cell Stem Cell*, **2020**, 27, 254-269.e9	18	17
36	FZD4 Marks Lateral Plate Mesoderm and Signals with NORRIN to Increase Cardiomyocyte Induction from Pluripotent Stem Cell-Derived Cardiac Progenitors. *Stem Cell Reports*, **2018**, 10, 87-100	8	15
35	New markers for tracking endoderm induction and hepatocyte differentiation from human pluripotent stem cells. *Development (Cambridge)*, **2015**, 142, 4253-65	6.6	14
34	Ultrasensitive and rapid quantification of rare tumorigenic stem cells in hPSC-derived cardiomyocyte populations. *Science Advances*, **2020**, 6, eaay7629	14.3	14
33	Functional arrays of human pluripotent stem cell-derived cardiac microtissues. *Scientific Reports*, **2020**, 10, 6919	4.9	14
32	Embryonic stem cell-derived astrocytes: a novel gene therapy vector for brain tumors. *Neurosurgical Focus*, **2005**, 19, E6	4.2	13
31	The cardiomyocyte lineage is critical for optimization of stem cell therapy in a mouse model of myocardial infarction. *FASEB Journal*, **2010**, 24, 1073-81	0.9	12
30	Gene delivery by embryonic stem cells for malignant glioma therapy: hype or hope?. *Cancer Biology and Therapy*, **2008**, 7, 1341-7	4.6	12

29	A Quantitative Proteomic Analysis of Hemogenic Endothelium Reveals Differential Regulation of Hematopoiesis by SOX17. *Stem Cell Reports*, **2015**, 5, 291-304	8	10
28	Clonal generation of multipotent and unipotent hemopoietic blast cell colonies in vitro. *Journal of Cellular Physiology*, **1984**, 120, 29-35	7	10
27	Hematopoietic Development of ES Cells in Culture. *Methods in Molecular Medicine*, **2002**, 63, 209-30		10
26	Regulated expression and role of c-Myb in the cardiovascular-directed differentiation of mouse embryonic stem cells. *Circulation Research*, **2012**, 110, 253-64	15.7	9
25	The in vitro differentiation of mouse embryonic stem cells into neutrophils. *Methods in Enzymology*, **2003**, 365, 129-42	1.7	9
24	Silent IL2RG Gene Editing in Human Pluripotent Stem Cells. *Molecular Therapy*, **2016**, 24, 582-91	11.7	7
23	Introduction of a selectable gene into murine T-lymphoblasts by a retroviral vector. *Journal of Immunological Methods*, **1986**, 89, 93-101	2.5	7
22	Overexpression of HOX11 Leads to the Immortalization of Embryonic Precursors With Both Primitive and Definitive Hematopoietic Potential. *Blood*, **1998**, 92, 877-887	2.2	6
21	Unsuspected role of the brain morphogenetic gene Otx1 in hematopoiesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 10299-303	11.5	5
20	Hemopoietic colonies on the chorioallantoic membrane of the chick embryo: induction by embryonic, adherent, non-hemopoietic spleen cells. *Journal of Cellular Physiology*, **1980**, 102, 351-65	7	5
19	Single-Cell Mechanical Analysis of Human Pluripotent Stem Cell-Derived Cardiomyocytes for Drug Testing and Pathophysiological Studies. *Stem Cell Reports*, **2020**, 15, 587-596	8	5
18	Photochemically Activated Notch Signaling Hydrogel Preferentially Differentiates Human Derived Hepatoblasts to Cholangiocytes. *Advanced Functional Materials*, **2021**, 31, 2006116	15.6	5
17	Hemopoiesis in spleen and bone marrow cultures. *Journal of Cellular Physiology*, **1983**, 116, 7-15	7	4
16	Establishment of ES Cells Secreting Human Factor VIII for Hemophilia A-Targeted Cell Therapy.. *Blood*, **2006**, 108, 1012-1012	2.2	4
15	The Introduction of Genes into Mouse Embryos and Stem Cells **1992**, 440-458		3
14	Functional arrays of human pluripotent stem cell-derived cardiac microtissues		3
13	Transcriptional Control of Hematopoietic Development **1995**, 23-34		3
12	Leptin Stimulates Fetal and Adult Erythroid and Myeloid Development. *Blood*, **1997**, 89, 1507-1512	2.2	2

List of Publications

11	One-Step Formation of Protein-Based Tubular Structures for Functional Devices and Tissues. *Advanced Healthcare Materials*, **2021**, 10, e2001746	10.1	2
10	A 3-D human model of complex cardiac arrhythmias. *Acta Biomaterialia*, **2021**, 132, 149-161	10.8	2
9	Modeling human yolk sac hematopoiesis with pluripotent stem cells.. *Journal of Experimental Medicine*, **2022**, 219,	16.6	2
8	Highlights from Philadelphia: ISSCR 2008. *Cell Stem Cell*, **2008**, 3, 259-264	18	1
7	Induced pluripotent stem cells used to reveal drug actions in a long QT syndrome family with complex genetics. *Journal of Cell Biology*, **2013**, 200, i3-i3	7.3	1
6	Therapeutic correction of hemophilia A by transplantation of hPSC-derived liver sinusoidal endothelial cell progenitors.. *Cell Reports*, **2022**, 39, 110621	10.6	0
5	Specificity of Smad Signaling during Primitive Erythropoiesis.. *Blood*, **2004**, 104, 2785-2785	2.2	
4	Serum Free Induction of a Lympho-Hematopoietic Precursor Population from Murine Embryonic Stem Cells.. *Blood*, **2005**, 106, 3605-3605	2.2	
3	Knockdown of the Fanconi Anemia Gene FANCD2 Directly Affects Hematopoiesis in Human Embryonic Stem Cells.. *Blood*, **2006**, 108, 1318-1318	2.2	
2	Generation of Megakaryocytes from Human Embryonic Stem Cells.. *Blood*, **2007**, 110, 1265-1265	2.2	
1	Stage-specific signaling through TGF family members and WNT regulates patterning and pancreatic specification of human pluripotent stem cells. *Journal of Cell Science*, **2011**, 124, e1-e1	5.3	