

Lyle Armstrong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

5,950
citations

36
h-index

76
g-index

108
ext. papers

6,778
ext. citations

6.3
avg, IF

5.25
L-index

#	Paper	IF	Citations
95	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011 , 29, 1132-44	44.5	406
94	The role of PI3K/AKT, MAPK/ERK and NFkappabeta signalling in the maintenance of human embryonic stem cell pluripotency and viability highlighted by transcriptional profiling and functional analysis. <i>Human Molecular Genetics</i> , 2006 , 15, 1894-913	5.6	313
93	Downregulation of NANOG induces differentiation of human embryonic stem cells to extraembryonic lineages. <i>Stem Cells</i> , 2005 , 23, 1035-43	5.8	304
92	Ethical and Safety Issues of Stem Cell-Based Therapy. <i>International Journal of Medical Sciences</i> , 2018 , 15, 36-45	3.7	297
91	Efficient hematopoietic differentiation of human embryonic stem cells on stromal cells derived from hematopoietic niches. <i>Cell Stem Cell</i> , 2008 , 3, 85-98	18	252
90	Human induced pluripotent stem cell lines show stress defense mechanisms and mitochondrial regulation similar to those of human embryonic stem cells. <i>Stem Cells</i> , 2010 , 28, 661-73	5.8	239
89	Downregulation of multiple stress defense mechanisms during differentiation of human embryonic stem cells. <i>Stem Cells</i> , 2008 , 26, 455-64	5.8	217
88	Stress defense in murine embryonic stem cells is superior to that of various differentiated murine cells. <i>Stem Cells</i> , 2004 , 22, 962-71	5.8	207
87	Phenotypic characterization of murine primitive hematopoietic progenitor cells isolated on basis of aldehyde dehydrogenase activity. <i>Stem Cells</i> , 2004 , 22, 1142-51	5.8	206
86	An autogenic feeder cell system that efficiently supports growth of undifferentiated human embryonic stem cells. <i>Stem Cells</i> , 2005 , 23, 306-14	5.8	203
85	Differentiation of human embryonic stem cells into corneal epithelial-like cells by in vitro replication of the corneal epithelial stem cell niche. <i>Stem Cells</i> , 2007 , 25, 1145-55	5.8	167
84	Derivation of human embryonic stem cells from developing and arrested embryos. <i>Stem Cells</i> , 2006 , 24, 2669-76	5.8	157
83	A role for NANOG in G1 to S transition in human embryonic stem cells through direct binding of CDK6 and CDC25A. <i>Journal of Cell Biology</i> , 2009 , 184, 67-82	7.3	156
82	Hair follicle dermal cells repopulate the mouse haematopoietic system. <i>Journal of Cell Science</i> , 2002 , 115, 3967-74	5.3	153
81	Isolation of primordial germ cells from differentiating human embryonic stem cells. <i>Stem Cells</i> , 2008 , 26, 3075-85	5.8	140
80	Derivation of human embryonic stem cells from day-8 blastocysts recovered after three-step in vitro culture. <i>Stem Cells</i> , 2004 , 22, 790-7	5.8	135
79	Derivation of a human blastocyst after heterologous nuclear transfer to donated oocytes. <i>Reproductive BioMedicine Online</i> , 2005 , 11, 226-31	4	128

78	Human-serum matrix supports undifferentiated growth of human embryonic stem cells. <i>Stem Cells</i> , 2005 , 23, 895-902	5.8	104
77	An important role for CDK2 in G1 to S checkpoint activation and DNA damage response in human embryonic stem cells. <i>Stem Cells</i> , 2011 , 29, 651-9	5.8	103
76	Epigenetic modification is central to genome reprogramming in somatic cell nuclear transfer. <i>Stem Cells</i> , 2006 , 24, 805-14	5.8	100
75	A key role for telomerase reverse transcriptase unit in modulating human embryonic stem cell proliferation, cell cycle dynamics, and in vitro differentiation. <i>Stem Cells</i> , 2008 , 26, 850-63	5.8	99
74	mTert expression correlates with telomerase activity during the differentiation of murine embryonic stem cells. <i>Mechanisms of Development</i> , 2000 , 97, 109-16	1.7	98
73	Human-Induced Pluripotent Stem Cells Generate Light Responsive Retinal Organoids with Variable and Nutrient-Dependent Efficiency. <i>Stem Cells</i> , 2018 , 36, 1535-1551	5.8	86
72	Disrupted alternative splicing for genes implicated in splicing and ciliogenesis causes PRPF31 retinitis pigmentosa. <i>Nature Communications</i> , 2018 , 9, 4234	17.4	85
71	Reproducibility of Molecular Phenotypes after Long-Term Differentiation to Human iPSC-Derived Neurons: A Multi-Site Omics Study. <i>Stem Cell Reports</i> , 2018 , 11, 897-911	8	84
70	Co-expression of SARS-CoV-2 entry genes in the superficial adult human conjunctival, limbal and corneal epithelium suggests an additional route of entry via the ocular surface. <i>Ocular Surface</i> , 2021 , 19, 190-200	6.5	71
69	Characterisation of Wnt gene expression during the differentiation of murine embryonic stem cells in vitro: role of Wnt3 in enhancing haematopoietic differentiation. <i>Mechanisms of Development</i> , 2001 , 103, 49-59	1.7	69
68	Epigenetic landscaping during hESC differentiation to neural cells. <i>Stem Cells</i> , 2009 , 27, 1298-308	5.8	63
67	Derivation and functional analysis of patient-specific induced pluripotent stem cells as an in vitro model of chronic granulomatous disease. <i>Stem Cells</i> , 2012 , 30, 599-611	5.8	58
66	An induced pluripotent stem cell model of hypoplastic left heart syndrome (HLHS) reveals multiple expression and functional differences in HLHS-derived cardiac myocytes. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 416-23	6.9	57
65	A novel model of urinary tract differentiation, tissue regeneration, and disease: reprogramming human prostate and bladder cells into induced pluripotent stem cells. <i>European Urology</i> , 2013 , 64, 753-61 ^{10.2}	5.7	57
64	Primordial Germ Cells: Current Knowledge and Perspectives. <i>Stem Cells International</i> , 2016 , 2016, 1741032	5.7	48
63	Rapid establishment of the European Bank for induced Pluripotent Stem Cells (EBiSC) - the Hot Start experience. <i>Stem Cell Research</i> , 2017 , 20, 105-114	1.6	45
62	Brief report: human pluripotent stem cell models of fanconi anemia deficiency reveal an important role for fanconi anemia proteins in cellular reprogramming and survival of hematopoietic progenitors. <i>Stem Cells</i> , 2013 , 31, 1022-9	5.8	44
61	Epigenetics in embryonic stem cells: regulation of pluripotency and differentiation. <i>Cell and Tissue Research</i> , 2008 , 331, 23-9	4.2	40

60	An Induced Pluripotent Stem Cell Patient Specific Model of Complement Factor H (Y402H) Polymorphism Displays Characteristic Features of Age-Related Macular Degeneration and Indicates a Beneficial Role for UV Light Exposure. <i>Stem Cells</i> , 2017 , 35, 2305-2320	5.8	38
59	CRX Expression in Pluripotent Stem Cell-Derived Photoreceptors Marks a Transplantable Subpopulation of Early Cones. <i>Stem Cells</i> , 2019 , 37, 609-622	5.8	36
58	A putative role for RHAMM/HMMR as a negative marker of stem cell-containing population of human limbal epithelial cells. <i>Stem Cells</i> , 2008 , 26, 1609-19	5.8	36
57	Concise Review: Cardiac Disease Modeling Using Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2015 , 33, 2643-51	5.8	35
56	Expression of GFP under the control of the RNA helicase VASA permits fluorescence-activated cell sorting isolation of human primordial germ cells. <i>Stem Cells</i> , 2010 , 28, 84-92	5.8	34
55	Epigenetic marking prepares the human HOXA cluster for activation during differentiation of pluripotent cells. <i>Stem Cells</i> , 2008 , 26, 1174-85	5.8	34
54	Human embryonic stem cells: biology and clinical implications. <i>Expert Reviews in Molecular Medicine</i> , 2005 , 7, 1-21	6.7	34
53	Generating inner ear organoids containing putative cochlear hair cells from human pluripotent stem cells. <i>Cell Death and Disease</i> , 2018 , 9, 922	9.8	34
52	Induced pluripotent stem cell modelling of HLHS underlines the contribution of dysfunctional NOTCH signalling to impaired cardiogenesis. <i>Human Molecular Genetics</i> , 2017 , 26, 3031-3045	5.6	31
51	Opposing putative roles for canonical and noncanonical NFB signaling on the survival, proliferation, and differentiation potential of human embryonic stem cells. <i>Stem Cells</i> , 2010 , 28, 1970-80	5.8	30
50	Brief Report: Inhibition of miR-145 Enhances Reprogramming of Human Dermal Fibroblasts to Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2016 , 34, 246-51	5.8	29
49	Hepatic differentiation of human iPSCs in different 3D models: A comparative study. <i>International Journal of Molecular Medicine</i> , 2017 , 40, 1759-1771	4.4	27
48	The mitochondrial protein CHCHD2 primes the differentiation potential of human induced pluripotent stem cells to neuroectodermal lineages. <i>Journal of Cell Biology</i> , 2016 , 215, 187-202	7.3	27
47	A putative role for the immunoproteasome in the maintenance of pluripotency in human embryonic stem cells. <i>Stem Cells</i> , 2012 , 30, 1373-84	5.8	27
46	Aging of Stem and Progenitor Cells: Mechanisms, Impact on Therapeutic Potential, and Rejuvenation. <i>Rejuvenation Research</i> , 2016 , 19, 3-12	2.6	26
45	Human iPSC differentiation to retinal organoids in response to IGF1 and BMP4 activation is line- and method-dependent. <i>Stem Cells</i> , 2020 , 38, 195-201	5.8	22
44	Differences in the Activity of Endogenous Bone Morphogenetic Protein Signaling Impact on the Ability of Induced Pluripotent Stem Cells to Differentiate to Corneal Epithelial-Like Cells. <i>Stem Cells</i> , 2018 , 36, 337-348	5.8	21
43	Non-invasive imaging of stem cells by scanning ion conductance microscopy: future perspective. <i>Tissue Engineering - Part C: Methods</i> , 2008 , 14, 311-8	2.9	20

42	Epigenetic control of embryonic stem cell differentiation. <i>Stem Cell Reviews and Reports</i> , 2012 , 8, 67-77	6.4	19
41	Nanog regulates primordial germ cell migration through Cxcr4b. <i>Stem Cells</i> , 2010 , 28, 1457-64	5.8	19
40	Silencing of the expression of pluripotent driven-reporter genes stably transfected into human pluripotent cells. <i>Regenerative Medicine</i> , 2008 , 3, 505-22	2.5	19
39	Complement modulation reverses pathology in Y402H-retinal pigment epithelium cell model of age-related macular degeneration by restoring lysosomal function. <i>Stem Cells Translational Medicine</i> , 2020 , 9, 1585-1603	6.9	19
38	A Novel Role for miR-1305 in Regulation of Pluripotency-Differentiation Balance, Cell Cycle, and Apoptosis in Human Pluripotent Stem Cells. <i>Stem Cells</i> , 2016 , 34, 2306-17	5.8	19
37	A single cell atlas of human cornea that defines its development, limbal progenitor cells and their interactions with the immune cells. <i>Ocular Surface</i> , 2021 , 21, 279-298	6.5	19
36	iPSC modeling of severe aplastic anemia reveals impaired differentiation and telomere shortening in blood progenitors. <i>Cell Death and Disease</i> , 2018 , 9, 128	9.8	18
35	A role for nucleoprotein Zap3 in the reduction of telomerase activity during embryonic stem cell differentiation. <i>Mechanisms of Development</i> , 2004 , 121, 1509-22	1.7	18
34	Differentiation of Retinal Organoids from Human Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2019 , 50, e95	2.8	17
33	Intercalating TOP2 Poisons Attenuate Topoisomerase Action at Higher Concentrations. <i>Molecular Pharmacology</i> , 2019 , 96, 475-484	4.3	16
32	Brief report: a human induced pluripotent stem cell model of cernunnos deficiency reveals an important role for XLF in the survival of the primitive hematopoietic progenitors. <i>Stem Cells</i> , 2013 , 31, 2015-23	5.8	14
31	Transplanted pluripotent stem cell-derived photoreceptor precursors elicit conventional and unusual light responses in mice with advanced retinal degeneration. <i>Stem Cells</i> , 2021 , 39, 882-896	5.8	14
30	JNK/SAPK Signaling Is Essential for Efficient Reprogramming of Human Fibroblasts to Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2016 , 34, 1198-212	5.8	14
29	Large-scale transcriptional profiling and functional assays reveal important roles for Rho-GTPase signalling and SCL during haematopoietic differentiation of human embryonic stem cells. <i>Human Molecular Genetics</i> , 2011 , 20, 4932-46	5.6	13
28	Human iPSC disease modelling reveals functional and structural defects in retinal pigment epithelial cells harbouring the m.3243A > G mitochondrial DNA mutation. <i>Scientific Reports</i> , 2017 , 7, 12320	4.9	12
27	Multiplex High-Throughput Targeted Proteomic Assay To Identify Induced Pluripotent Stem Cells. <i>Analytical Chemistry</i> , 2017 , 89, 2440-2448	7.8	10
26	Reprogramming of Human Huntington Fibroblasts Using mRNA 2012 , 2012, 1-12		10
25	Potential for pharmacological manipulation of human embryonic stem cells. <i>British Journal of Pharmacology</i> , 2013 , 169, 269-89	8.6	9

24	Towards optimisation of induced pluripotent cell culture: Extracellular acidification results in growth arrest of iPSC prior to nutrient exhaustion. <i>Toxicology in Vitro</i> , 2017 , 45, 445-454	3.6	9
23	Generation of Human Induced Pluripotent Stem Cells Using RNA-Based Sendai Virus System and Pluripotency Validation of the Resulting Cell Population. <i>Methods in Molecular Biology</i> , 2016 , 1353, 285-307	1.4	8
22	Concise Review: Getting to the Core of Inherited Bone Marrow Failures. <i>Stem Cells</i> , 2017 , 35, 284-298	5.8	8
21	In the eye of the storm: SARS-CoV-2 infection and replication at the ocular surface?. <i>Stem Cells Translational Medicine</i> , 2021 , 10, 976-986	6.9	8
20	A critical role for p38MAPK signalling pathway during reprogramming of human fibroblasts to iPSCs. <i>Scientific Reports</i> , 2017 , 7, 41693	4.9	7
19	Concise review: the epigenetic contribution to stem cell ageing: can we rejuvenate our older cells?. <i>Stem Cells</i> , 2014 , 32, 2291-8	5.8	7
18	Triphenylmethane dyes containing the N-methyl-N-2,2,2-trifluoroethyl group. <i>Dyes and Pigments</i> , 1999 , 42, 65-70	4.6	7
17	Room temperature shipment does not affect the biological activity of pluripotent stem cell-derived retinal organoids. <i>PLoS ONE</i> , 2020 , 15, e0233860	3.7	6
16	Platform to study intracellular polystyrene nanoplastic pollution and clinical outcomes. <i>Stem Cells</i> , 2020 , 38, 1321-1325	5.8	6
15	G1 to S transition and pluripotency: Two sides of the same coin?. <i>Cell Cycle</i> , 2009 , 8, 1105-1111	4.7	6
14	SARS-CoV-2 infects an upper airway model derived from induced pluripotent stem cells. <i>Stem Cells</i> , 2021 , 39, 1310-1321	5.8	5
13	Pluripotent Stem Cell-Derived Hematopoietic Progenitors Are Unable to Downregulate Key Epithelial-Mesenchymal Transition-Associated miRNAs. <i>Stem Cells</i> , 2018 , 36, 55-64	5.8	3
12	Law should recognize value of interspecies embryos. <i>Nature</i> , 2008 , 451, 627	50.4	3
11	The future of human nuclear transfer?. <i>Stem Cell Reviews and Reports</i> , 2006 , 2, 351-8	6.4	3
10	Endothelial Differentiation G Protein-Coupled Receptor 5 Plays an Important Role in Induction and Maintenance of Pluripotency. <i>Stem Cells</i> , 2019 , 37, 318-331	5.8	3
9	Pre-mRNA Processing Factors and Retinitis Pigmentosa: RNA Splicing and Beyond. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 700276	5.7	2
8	Activation of autophagy reverses progressive and deleterious protein aggregation in PRPF31 patient-induced pluripotent stem cell-derived retinal pigment epithelium cells.. <i>Clinical and Translational Medicine</i> , 2022 , 12, e759	5.7	2
7	Expression of serine/threonine protein kinase SGK1F promotes an hepatoblast state in stem cells directed to differentiate into hepatocytes. <i>PLoS ONE</i> , 2019 , 14, e0218135	3.7	1

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| 6 | Engraftment's Holy Grail: is one signal enough?. <i>Blood</i> , 2014 , 124, 3035-6 | 2.2 | 1 |
| 5 | Human Retinal Organoids Provide a Suitable Tool for Toxicological Investigations: A Comprehensive Validation Using Drugs and Compounds Affecting the Retina.. <i>Stem Cells Translational Medicine</i> , 2022 , 11, 159-177 | 6.9 | 1 |
| 4 | In Reply to the Letter to the Editor from Anderson et al.: An Induced Pluripotent Stem Cell Patient Specific Model of Complement Factor H (Y402H) Polymorphism Displays Characteristic Features of Age-Related Macular Degeneration and Indicates a Beneficial Role for UV Light Exposure. <i>Stem Cells</i> , 2018 , 36, 627-629 | 5.8 | |
| 3 | Epigenetic Reprogramming During Somatic Cell Nuclear Transfer and the Development of Primordial Germ Cells 2011 , 25-44 | | |
| 2 | Epigenetic Control of Cellular Differentiation 2020 , 171-180 | | |
| 1 | Extraembryonic Cell Differentiation. <i>Human Cell Culture</i> , 2007 , 173-188 | | |