Peter W Andrews

List of Publications by Year
in descending order

133 papers	13,721 citations	30070 54 h-index	21540 114 g-index
142 all docs	142 docs citations	142 times ranked	11356 citing authors

#	Article	IF	Citations
1	Human pluripotent stem cells: genetic instability or stability?. Regenerative Medicine, 2021, 16, 113-115.	1.7	3
2	Defining the signalling determinants of a posterior ventral spinal cord identity in human neuromesodermal progenitor derivatives. Development (Cambridge), 2021, 148, .	2.5	16
3	Nanopore Sequencing Indicates That Tandem Amplification of Chromosome 20q11.21 in Human Pluripotent Stem Cells Is Driven by Break-Induced Replication. Stem Cells and Development, 2021, 30, 578-586.	2.1	4
4	Acquired genetic changes in human pluripotent stem cells: origins and consequences. Nature Reviews Molecular Cell Biology, 2020, 21, 715-728.	37.0	59
5	Generation and trapping of a mesoderm biased state of human pluripotency. Nature Communications, 2020, 11, 4989.	12.8	14
6	Nucleosides Rescue Replication-Mediated Genome Instability of Human Pluripotent Stem Cells. Stem Cell Reports, 2020, 14, 1009-1017.	4.8	34
7	Low rates of mutation in clinical grade human pluripotent stem cells under different culture conditions. Nature Communications, 2020, 11, 1528.	12.8	67
8	Frequent copy number gains of SLC2A3 and ETV1 in testicular embryonal carcinomas. Endocrine-Related Cancer, 2020, 27, 457-468.	3.1	2
9	Frequent copy number gains of SLC2A3 and ETV1 in testicular embryonal carcinomas. Endocrine-Related Cancer, 2020, 27, 457-468.	3.1	4
10	Stem cell culture conditions and stability: a joint workshop of the PluriMes Consortium and Pluripotent Stem Cell Platform. Regenerative Medicine, 2019, 14, 243-255.	1.7	18
11	Anti-apoptotic Mutations Desensitize Human Pluripotent Stem Cells to Mitotic Stress and Enable Aneuploid Cell Survival. Stem Cell Reports, 2019, 12, 557-571.	4.8	39
12	Science-based assessment of source materials for cell-based medicines: report of a stakeholders workshop. Regenerative Medicine, 2018, 13, 935-944.	1.7	12
13	Identification and Single-Cell Functional Characterization of an Endodermally Biased Pluripotent Substate in Human Embryonic Stem Cells. Stem Cell Reports, 2018, 10, 1895-1907.	4.8	25
14	Human axial progenitors generate trunk neural crest cells in vitro. ELife, 2018, 7, .	6.0	81
15	Top-Down Inhibition of BMP Signaling Enables Robust Induction of hPSCs Into Neural Crest in Fully Defined, Xeno-free Conditions. Stem Cell Reports, 2017, 9, 1043-1052.	4.8	73
16	Statistical Texture-Based Mapping of Cell Differentiation Under Microfluidic Flow. Lecture Notes in Computer Science, 2017, , 93-106.	1.3	0
17	Teratomas produced from human pluripotent stem cells xenografted into immunodeficient mice - a histopathology atlas. International Journal of Developmental Biology, 2016, 60, 337-419.	0.6	40
18	White paper on guidelines concerning enteric nervous system stem cell therapy for enteric neuropathies. Developmental Biology, 2016, 417, 229-251.	2.0	112

#	Article	IF	Citations
19	Detecting Genetic Mosaicism in Cultures of Human Pluripotent Stem Cells. Stem Cell Reports, 2016, 7, 998-1012.	4.8	115
20	The origins of stem cells as tools for regenerative medicine. Biochemical and Biophysical Research Communications, 2016, 473, 663-664.	2.1	0
21	Apoptosis and failure of checkpoint kinase 1 activation in human induced pluripotent stem cells under replication stress. Stem Cell Research and Therapy, 2016, 7, 17.	5.5	34
22	Identification of Novel Fusion Genes in Testicular Germ Cell Tumors. Cancer Research, 2016, 76, 108-116.	0.9	25
23	Current Biosafety Considerations in Stem Cell Therapy. Cell Journal, 2016, 18, 281-7.	0.2	28
24	Evidence for bystander signalling between human trophoblast cells and human embryonic stem cells. Scientific Reports, 2015, 5, 11694.	3.3	8
25	Concise Review: Workshop Review: Understanding and Assessing the Risks of Stem Cell-Based Therapies. Stem Cells Translational Medicine, 2015, 4, 389-400.	3.3	98
26	Culture Adaptation Alters Transcriptional Hierarchies among Single Human Embryonic Stem Cells Reflecting Altered Patterns of Differentiation. PLoS ONE, 2015, 10, e0123467.	2.5	18
27	DNMT3B inhibits the re-expression of genes associated with induced pluripotency. Experimental Cell Research, 2014, 321, 231-239.	2.6	18
28	Aneuploidy induces profound changes in gene expression, proliferation and tumorigenicity of human pluripotent stem cells. Nature Communications, 2014, 5, 4825.	12.8	148
29	Harmonizing standards for producing clinical-grade therapies from pluripotent stem cells. Nature Biotechnology, 2014, 32, 724-726.	17.5	62
30	Time-Lapse Analysis of Human Embryonic Stem Cells Reveals Multiple Bottlenecks Restricting Colony Formation and Their Relief upon Culture Adaptation. Stem Cell Reports, 2014, 3, 142-155.	4.8	76
31	Induced pluripotency enables differentiation of human nullipotent embryonal carcinoma cells N2102Ep. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 2611-2619.	4.1	4
32	Aneuploidy in pluripotent stem cells and implications for cancerous transformation. Protein and Cell, 2014, 5, 569-579.	11.0	49
33	Karyotypically abnormal human ESCs are sensitive to HDAC inhibitors and show altered regulation of genes linked to cancers and neurological diseases. Stem Cell Research, 2013, 11, 1022-1036.	0.7	10
34	BCL-XL Mediates the Strong Selective Advantage of a 20q11.21 Amplification Commonly Found in Human Embryonic Stem Cell Cultures. Stem Cell Reports, 2013, 1, 379-386.	4.8	132
35	Surface Antigen Markers. , 2013, , 375-382.		0
36	Characterization of human pluripotent stem cells. NeuroReport, 2013, 24, 1031-1034.	1.2	5

#	Article	IF	Citations
37	STELLA Facilitates Differentiation of Germ Cell and Endodermal Lineages of Human Embryonic Stem Cells. PLoS ONE, 2013, 8, e56893.	2.5	43
38	Deficient DNA Damage Response and Cell Cycle Checkpoints Lead to Accumulation of Point Mutations in Human Embryonic Stem Cells. Stem Cells, 2012, 30, 1901-1910.	3.2	52
39	The development of pluripotent stem cells. Current Opinion in Genetics and Development, 2012, 22, 403-408.	3.3	12
40	Human Embryonic Stem Cells Fail to Activate CHK1 and Commit to Apoptosis in Response to DNA Replication Stress. Stem Cells, 2012, 30, 1385-1393.	3.2	80
41	The Significance of Culture Adaptation of Embryonic Stem Cells for Regenerative Medicine. , 2012, , 17-27.		3
42	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nature Biotechnology, 2011, 29, 1132-1144.	17.5	509
43	Pinacidil enhances survival of cryopreserved human embryonic stem cells. Cryobiology, 2011, 63, 298-305.	0.7	22
44	Culture Adaptation of Pluripotent Stem Cells: Challenges and Opportunities. , 2011, , 265-276.		0
45	Functionally defined substates within the human embryonic stem cell compartment. Stem Cell Research, 2011, 7, 145-153.	0.7	17
46	High-Content Screening for Chemical Modulators of Embryonal Carcinoma Cell Differentiation and Survival. Journal of Biomolecular Screening, 2011, 16, 603-617.	2.6	17
47	Toward safer regenerative medicine. Nature Biotechnology, 2011, 29, 803-805.	17.5	13
48	Altered patterns of differentiation in karyotypically abnormal human embryonic stem cells. International Journal of Developmental Biology, 2011, 55, 175-180.	0.6	34
49	Treating Oncologic Disease. Pancreatic Islet Biology, 2011, , 35-43.	0.3	2
50	Generation of Sheffield (Shef) human embryonic stem cell lines using a microdrop culture system. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 236-241.	1.5	40
51	Comparison of defined culture systems for feeder cell free propagation of human embryonic stem cells. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 247-258.	1.5	180
52	Human ES cell linesâ€"introduction. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 167-168.	1.5	3
53	Modeling the evolution of culture-adapted human embryonic stem cells. Stem Cell Research, 2010, 4, 50-56.	0.7	61
54	Novel regulators of stem cell fates identified by a multivariate phenotype screen of small compounds on human embryonic stem cell colonies. Stem Cell Research, 2010, 5, 104-119.	0.7	47

#	Article	IF	Citations
55	Inhibition of ERK1/2 prevents neural and mesendodermal differentiation and promotes human embryonic stem cell self-renewal. Stem Cell Research, 2010, 5, 157-169.	0.7	67
56	The Role of SMAD4 in Human Embryonic Stem Cell Self-Renewal and Stem Cell Fate. Stem Cells, 2010, 28, N/A-N/A.	3.2	38
57	High-resolution DNA analysis of human embryonic stem cell lines reveals culture-induced copy number changes and loss of heterozygosity. Nature Biotechnology, 2010, 28, 371-377.	17.5	258
58	Prepatterning in the Stem Cell Compartment. PLoS ONE, 2010, 5, e10901.	2.5	19
59	Retinoic acid directs neuronal differentiation of human pluripotent stem cell lines in a non-cell-autonomous manner. Differentiation, 2010, 80, 20-30.	1.9	77
60	High-content screening of small compounds on human embryonic stem cells. Biochemical Society Transactions, 2010, 38, 1046-1050.	3.4	41
61	Activation of Pluripotency Genes in Human Fibroblast Cells by a Novel mRNA Based Approach. PLoS ONE, 2010, 5, e14397.	2.5	90
62	Surface marker antigens in the characterization of human embryonic stem cells. Stem Cell Research, 2009, 3, 3-11.	0.7	88
63	CD30 Expression Reveals that Culture Adaptation of Human Embryonic Stem Cells Can Occur Through Differing Routes. Stem Cells, 2009, 27, 1057-1065.	3.2	24
64	Specific Knockdown of OCT4 in Human Embryonic Stem Cells by Inducible Short Hairpin RNA Interference Â. Stem Cells, 2009, 27, 776-782.	3.2	50
65	Human embryonic stem cells: 10 years on. Laboratory Investigation, 2009, 89, 259-262.	3.7	9
66	Modified variational Bayes EM estimation of hidden Markov tree model of cell lineages. Bioinformatics, 2009, 25, 2824-2830.	4.1	13
67	Stem Cell States, Fates, and the Rules of Attraction. Cell Stem Cell, 2009, 4, 387-397.	11.1	307
68	Surface Antigen Markers. , 2009, , 423-428.		1
69	OCT4 Spliced Variants Are Differentially Expressed in Human Pluripotent and Nonpluripotent Cells. Stem Cells, 2008, 26, 3068-3074.	3.2	252
70	Cell-Cell Signaling Through NOTCH Regulates Human Embryonic Stem Cell Proliferation. Stem Cells, 2008, 26, 715-723.	3.2	65
71	Elucidating the phenomenon of HESC-derived RPE: Anatomy of cell genesis, expansion and retinal transplantation. Experimental Neurology, 2008, 214, 347-361.	4.1	251
72	How Do Cells Change Their Phenotype. , 2008, , 136-147.		0

#	Article	IF	Citations
73	Heparin promotes the growth of human embryonic stem cells in a defined serum-free medium. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13409-13414.	7.1	220
74	PAX4 Enhances Beta-Cell Differentiation of Human Embryonic Stem Cells. PLoS ONE, 2008, 3, e1783.	2.5	52
75	Restriction landmark genome scanning identifies culture-induced DNA methylation instability in the human embryonic stem cell epigenome. Human Molecular Genetics, 2007, 16, 1253-1268.	2.9	162
76	mGluR5 is involved in dendrite differentiation and excitatory synaptic transmission in NTERA2 human embryonic carcinoma cell-derived neurons. Neuropharmacology, 2007, 52, 1403-1414.	4.1	10
77	Embryonic stem cells and retinal repair. Mechanisms of Development, 2007, 124, 807-829.	1.7	71
78	Qualification of Embryonal Carcinoma 2102Ep As a Reference for Human Embryonic Stem Cell Research. Stem Cells, 2007, 25, 437-446.	3.2	104
79	Transient and Stable Transgene Expression in Human Embryonic Stem Cells. Stem Cells, 2007, 25, 1521-1528.	3.2	146
80	Characterising stem cells requires consortia. Nature Reports Stem Cells, 2007, , .	0.0	0
81	The terminology of teratocarcinomas and teratomas. Nature Biotechnology, 2007, 25, 1212-1212.	17.5	52
82	Adaptation to culture of human embryonic stem cells and oncogenesis in vivo. Nature Biotechnology, 2007, 25, 207-215.	17.5	603
83	Characterization of human embryonic stem cell lines by the International Stem Cell Initiative. Nature Biotechnology, 2007, 25, 803-816.	17.5	983
84	Culture adaptation of embryonic stem cells echoes germ cell malignancy. Journal of Developmental and Physical Disabilities, 2007, 30, 275-281.	3.6	63
85	Human Embryonal Carcinoma (EC) Cells: Complementary Tools for Embryonic Stem Cell Research. Human Cell Culture, 2007, , 235-253.	0.1	0
86	The selfish stem cell. Nature Biotechnology, 2006, 24, 325-326.	17.5	14
87	A Prospective on Stem Cell Research. Seminars in Reproductive Medicine, 2006, 24, 289-297.	1.1	13
88	The International Stem Cell Initiative: toward benchmarks for human embryonic stem cell research. Nature Biotechnology, 2005, 23, 795-797.	17.5	94
89	Characterization of Human Embryonic Stem Cells. , 2005, , 38-54.		0
90	Differentiation of Human Embryonal Carcinomas In vitro and In vivo Reveals Expression Profiles Relevant to Normal Development. Cancer Research, 2005, 65, 5588-5598.	0.9	194

#	Article	IF	Citations
91	Cellular differentiation hierarchies in normal and culture-adapted human embryonic stem cells. Human Molecular Genetics, 2005, 14, 3129-3140.	2.9	272
92	Human embryonic stem cells: Possibilities for human cell transplantation. Annals of Medicine, 2005, 37, 521-532.	3.8	38
93	The CDK inhibitor p27 enhances neural differentiation in pluripotent NTERA2 human EC cells, but does not permit differentiation of 2102Ep nullipotent human EC cells. Mechanisms of Development, 2005, 122, 1034-1042.	1.7	19
94	Recurrent gain of chromosomes 17q and 12 in cultured human embryonic stem cells. Nature Biotechnology, 2004, 22, 53-54.	17.5	987
95	Response: Karyotype of human ES cells during extended culture. Nature Biotechnology, 2004, 22, 382-382.	17.5	5
96	Specific Knockdown of Oct4 and Î²2â€microglobulin Expression by RNA Interference in Human Embryonic Stem Cells and Embryonic Carcinoma Cells. Stem Cells, 2004, 22, 659-668.	3.2	256
97	LIF/STAT3 Signaling Fails to Maintain Self-Renewal of Human Embryonic Stem Cells. Stem Cells, 2004, 22, 770-778.	3.2	427
98	Culture and Characterization of Human Embryonic Stem Cells. Stem Cells and Development, 2004, 13, 325-336.	2.1	200
99	Surface Antigen Markers. , 2004, , 565-571.		1
100	Cell Fusion and the Differentiated State. , 2004, , 111-118.		0
101	Expression of Wnt and Notch pathway genes in a pluripotent human embryonal carcinoma cell line and embryonic stem cells. Apmis, 2003, 111, 197-211.	2.0	91
102	Reprogramming in Inter-Species Embryonal Carcinomaâ€“Somatic Cell Hybrids Induces Expression of Pluripotency and Differentiation Markers. Cloning and Stem Cells, 2003, 5, 339-354.	2.6	61
103	Gene expression patterns in human embryonic stem cells and human pluripotent germ cell tumors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13350-13355.	7.1	608
104	Embryonal Carcinoma Cells. , 2003, , 63-87.		1
105	From teratocarcinomas to embryonic stem cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 405-417.	4.0	237
106	Human embryonic stem cells: prospects for human health - a 1-day international symposium held at the University of Sheffield. Journal of Anatomy, 2002, 200, 221-223.	1.5	0
107	Surface antigens of human embryonic stem cells: changes upon differentiation in culture*. Journal of Anatomy, 2002, 200, 249-258.	1.5	441
108	Hybrids of pluripotent and nullipotent human embryonal carcinoma cells: Partial retention of a pluripotent phenotype. International Journal of Cancer, 2001, 93, 324-332.	5.1	33

#	Article	IF	Citations
109	The expression and function of cadherin-mediated cell-to-cell adhesion in human embryonal carcinoma cells. Mechanisms of Development, 1999, 83, 115-125.	1.7	13
110	Human Wnt-13 is developmentally regulated during the differentiation of NTERA-2 pluripotent human embryonal carcinoma cells. Oncogene, 1998, 17, 179-186.	5.9	28
111	Teratocarcinomas and human embryology: Pluripotent human EC cell lines. Apmis, 1998, 106, 158-168.	2.0	130
112	MAL mRNA is induced during the differentiation of human embryonal carcinoma cells into neurons and is also localised within specific regions of the human brain. Differentiation, 1997, 62, 97-105.	1.9	9
113	Comparative analysis of cell surface antigens expressed by cell lines derived from human germ cell tumours. , 1996, 66, 806-816.		95
114	Gene regulation during neuronal and non-neuronal differentiation of NTERA2 human teratocarcinoma-derived stem cells. Molecular Brain Research, 1994, 25, 157-162.	2.3	21
115	Sequential activation of HOX2 homeobox genes by retinoic acid in human embryonal carcinoma cells. Nature, 1990, 346, 763-766.	27.8	527
116	Different patterns of glycolipid antigens are expressed following differentiation of TERA-2 human embryonal carcinoma cells induced by retinoic acid, hexamethylene bisacetamide (HMBA) or bromodeoxyuridine (BUdR). Differentiation, 1990, 43, 131-138.	1.9	104
117	Glycolipid glycosyltransferases in human embryonal carcinoma cells during retinoic acid induced differentiation. Biochemistry, 1989, 28, 2229-2238.	2.5	50
118	Activation of four homeobox gene clusters in human embryonal carcinoma cells induced to differentiate by retinoic acid. Differentiation, 1988, 37, 73-79.	1.9	136
119	Glycolipid core structure switching from globo- to lacto- and ganglio-series during retinoic acid-induced differentiation of TERA-2-derived human embryonal carcinoma cells. Developmental Biology, 1987, 122, 21-34.	2.0	189
120	Human teratocarcinoma stem cells: Glycolipid antigen expression and modulation during differentiation. Journal of Cellular Biochemistry, 1987, 35, 321-332.	2.6	26
121	Red Cell Antigens P (Globoside) and Luke: Identification by Monoclonal Antibodies Defining the Murine Stageâ€Specific Embryonic Antigens â€3 and â€4 (SSEAâ€3 and SSEAâ€4)¹. Vox Sanguinis, 1986, 51, 53-56.	1.5	68
122	Differentiation of TERA-2 human embryonal carcinoma cells into neurons and HCMV permissive cells. Differentiation, 1986, 31, 119-126.	1.9	76
123	Three Monoclonal Antibodies Defining Distinct Differentiation Antigens Associated with Different High Molecular Weight Polypeptides on the Surface of Human Embryonal Carcinoma Cells. Hybridoma, 1984, 3, 347-361.	0.6	211
124	Retinoic acid induces neuronal differentiation of a cloned human embryonal carcinoma cell line in vitro. Developmental Biology, 1984, 103, 285-293.	2.0	794
125	Two Monoclonal Antibodies Recognizing Determinants on Human Embryonal Carcinoma Cells React Specifically with the Liver Isozyme of Human Alkaline Phosphatase. Hybridoma, 1984, 3, 33-39.	0.6	40
126	Retinoic acid fails to induce differentiation in human teratocarcinoma cell lines that express high levels of a cellular receptor protein. Experimental Cell Research, 1983, 143, 471-474.	2.6	46

#	Article	IF	Citations
127	Cell-surface antigens of a clonal human embryonal carcinoma cell line: Morphological and antigenic differentiation in culture. International Journal of Cancer, 1982, 29, 523-531.	5.1	187
128	Human embryonal carcinoma cells in culture do not synthesize fibronectin until they differentiate. International Journal of Cancer, 1982, 30, 567-571.	5.1	43
129	A human cell-surface antigen defined by a monoclonal antibody and controlled by a gene on chromosome 12. Somatic Cell Genetics, 1981, 7, 435-443.	2.7	53
130	Antigen expression by somatic cell hybrids of a murine embryonal carcinoma cell with thymocytes and L cells. Somatic Cell Genetics, 1980, 6, 271-284.	2.7	71
131	Phenotypic Analysis of Human Embryonic Stem Cells. , 0, , 91-106.		1
132	Techniques for Neural Differentiation of Human EC and ES Cells. , 0, , 61-91.		1
133	Human pluripotent stem cells as tools for high-throughput and high-content screening in drug discovery. International Journal of High Throughput Screening, 0, , 1.	0.5	1