Austin Smith

List of Articles by Year
in descending order

144 PR articles	29,394 PR citations	6529 75 PR h-index	9616 140 g-index
171 documents	41005 doc citations	4477 88 h-index	34059 citing authors

#	Article	IF	Citations
1	Inhibition of PRC2 enables self-renewal of blastoid-competent naive pluripotent stem cells from chimpanzee. Cell Stem Cell, 2025, 32, 627-639.e8.	16.4	3
2	Commentary in light of current findings on Roode et al., Developmental Biology (2012) Human hypoblast formation is not dependent on FGF signalling. Developmental Biology, 2024, 512, 11-12.	1.9	1
3	Branching topology of the human embryo transcriptome revealed by Entropy Sort Feature Weighting. Development (Cambridge), 2024, 151, .	3.1	8
4	Propagating pluripotency â€" The conundrum of selfâ€renewal. BioEssays, 2024, 46, .	2.1	10
5	Entropy sorting of single-cell RNA sequencing data reveals the inner cell mass in the human pre-implantation embryo. Stem Cell Reports, 2023, 18, 47-63.	4.4	44
6	Biophysical models of early mammalian embryogenesis. Stem Cell Reports, 2023, 18, 26-46.	4.4	9
7	Cell state transitions: catch them if you can. Development (Cambridge), 2023, 150, .	3.1	5
8	Epigenetic dynamics during capacitation of naÃ¯ve human pluripotent stem cells. Science Advances, 2023, 9, .	10.9	15
9	NMD is required for timely cell fate transitions by fine-tuning gene expression and regulating translation. Genes and Development, 2022, 36, 348-367.	4.6	40
10	Suppression of YAP safeguards human naÃ¯ve pluripotency. Development (Cambridge), 2022, 149, .	3.1	20
11	Capture of Mouse and Human Stem Cells with Features of Formative Pluripotency. Cell Stem Cell, 2021, 28, 453-471.e8.	16.4	238
12	Cooperative genetic networks drive embryonic stem cell transition from naÃ¯ve to formative pluripotency. EMBO Journal, 2021, 40, .	7.3	48
13	Human naive epiblast cells possess unrestricted lineage potential. Cell Stem Cell, 2021, 28, 1040-1056.e6.	16.4	315
14	Disabling de novo DNA methylation in embryonic stem cells allows an illegitimate fate trajectory. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.5	19
15	Pluripotent stem cells related to embryonic disc exhibit common self-renewal requirements in diverse livestock species. Development (Cambridge), 2021, 148, .	3.1	82
16	GMP-grade neural progenitor derivation and differentiation from clinical-grade human embryonic stem cells. Stem Cell Research and Therapy, 2020, 11, .	6.6	9
17	Microfluidic platform for 3D cell culture with live imaging and clone retrieval. Lab on A Chip, 2020, 20, 2580-2591.	5.1	22
18	Zfp281 orchestrates interconversion of pluripotent states by engaging Ehmt1 and Zic2. EMBO Journal, 2020, 39, .	7.3	30

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19	In Vitro Recapitulation of Developmental Transitions in Human Neural Stem Cells. Stem Cells, 2019, 37, 1429-1440.	3.2	10
20	Wnt Inhibition Facilitates RNA-Mediated Reprogramming of Human Somatic Cells to Naive Pluripotency. Stem Cell Reports, 2019, 13, 1083-1098.	4.4	107
21	Engineering Genetic Predisposition in Human Neuroepithelial Stem Cells Recapitulates Medulloblastoma Tumorigenesis. Cell Stem Cell, 2019, 25, 433-446.e7.	16.4	72
22	Complementary Activity of ETV5, RBPJ, and TCF3 Drives Formative Transition from Naive Pluripotency. Cell Stem Cell, 2019, 24, 785-801.e7.	16.4	112
23	Defined conditions for propagation and manipulation of mouse embryonic stem cells. Development (Cambridge), 2019, 146, .	3.1	123
24	Capacitation of human naÃ¯ve pluripotent stem cells for multi-lineage differentiation. Development (Cambridge), 2019, 146, .	3.1	122
25	Longâ€Term Perfusion Culture of Monoclonal Embryonic Stem Cells in 3D Hydrogel Beads for Continuous Optical Analysis of Differentiation. Small, 2019, 15, .	11.5	43
26	A common molecular logic determines embryonic stem cell selfâ€renewal and reprogramming. EMBO Journal, 2019, 38, .	7.3	43
27	Integrated analysis of single-cell embryo data yields a unified transcriptome signature for the human preimplantation epiblast. Development (Cambridge), 2018, , .	3.1	184
28	Pluripotency Deconstructed. Development Growth and Differentiation, 2018, 60, 44-52.	0.9	88
29	Single cell transcriptome analysis of human, marmoset and mouse embryos reveals common and divergent features of preimplantation development. Development (Cambridge), 2018, 145, .	3.1	222
30	LIF-dependent survival of embryonic stem cells is regulated by a novel palmitoylated Gab1 signalling protein. Journal of Cell Science, 2018, 131, .	2.4	4
31	Interplay of cellâ€“cell contacts and RhoA/ MRTF â€A signaling regulates cardiomyocyte identity. EMBO Journal, 2018, 37, .	7.3	74
32	Negative feedback via RSK modulates Erkâ€dependent progression from naÃ¯ve pluripotency. EMBO Reports, 2018, 19, .	5.2	36
33	Formative pluripotency: the executive phase in a developmental continuum. Development (Cambridge), 2017, 144, 365-373.	3.1	459
34	Tracking the embryonic stem cell transition from ground state pluripotency. Development (Cambridge), 2017, 144, 1221-1234.	3.1	293
35	Gene Editing in Rat Embryonic Stem Cells to Produce InÂVitro Models and InÂVivo Reporters. Stem Cell Reports, 2017, 9, 1262-1274.	4.4	13
36	NODAL Secures Pluripotency upon Embryonic Stem Cell Progression fromÂthe Ground State. Stem Cell Reports, 2017, 9, 77-91.	4.4	84

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37	Epigenetic resetting of human pluripotency. Development (Cambridge), 2017, 144, 2748-2763.	3.1	301
38	A conceptual and computational framework for modelling and understanding the non-equilibrium gene regulatory networks of mouse embryonic stem cells. PLoS Computational Biology, 2017, 13, e1005713.	3.1	7
39	Stat3 promotes mitochondrial transcription and oxidative respiration during maintenance and induction of naive pluripotency. EMBO Journal, 2016, 35, 618-634.	7.3	177
40	Convergence of cMyc and Î²â€catenin on Tcf7l1 enables endoderm specification. EMBO Journal, 2016, 35, 356-368.	7.3	39
41	Myc Depletion Induces a Pluripotent Dormant State Mimicking Diapause. Cell, 2016, 164, 668-680.	33.7	261
42	Dynamics of gene silencing during X inactivation using allele-specific RNA-seq. Genome Biology, 2015, 16, .	8.1	123
43	Towards consistent generation of pancreatic lineage progenitors from human pluripotent stem cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140365.	3.7	38
44	Lineage-Specific Profiling Delineates the Emergence and Progression of Naive Pluripotency in Mammalian Embryogenesis. Developmental Cell, 2015, 35, 366-382.	7.7	454
45	A Model-Based Analysis of Culture-Dependent Phenotypes of mESCs. PLoS ONE, 2014, 9, e92496.	2.3	33
46	Mapping the route from naive pluripotency to lineage specification. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130540.	3.7	199
47	Differentiation of Human Induced Pluripotent Stem Cells into Brown and White Adipocytes: Role of Pax3. Stem Cells, 2014, 32, 1459-1467.	3.2	88
48	The ability of inner-cell-mass cells to self-renew asÂembryonic stem cells is acquired following epiblastÂspecification. Nature Cell Biology, 2014, 16, 513-525.	16.3	434
49	Resetting Transcription Factor Control Circuitry toward Ground-State Pluripotency in Human. Cell, 2014, 158, 1254-1269.	33.7	901
50	Otx2 and Oct4 Drive Early Enhancer Activation during Embryonic Stem Cell Transition from Naive Pluripotency. Cell Reports, 2014, 7, 1968-1981.	6.3	135
51	The Nature of Embryonic Stem Cells. Annual Review of Cell and Developmental Biology, 2014, 30, 647-675.	9.5	415
52	Genetic Exploration of the Exit from Self-Renewal Using Haploid Embryonic Stem Cells. Cell Stem Cell, 2014, 14, 385-393.	16.4	193
53	Identification of the missing pluripotency mediator downstream of leukaemia inhibitory factor. EMBO Journal, 2013, 32, 2561-2574.	7.3	214
54	Neural Stem Cells Engrafted in the Adult Brain Fuse with Endogenous Neurons. Stem Cells and Development, 2013, 22, 538-547.	2.0	24

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55	Naive pluripotency is associated with global DNA hypomethylation. Nature Structural and Molecular Biology, 2013, 20, 311-316.	8.8	515
56	Exit from Pluripotency Is Gated by Intracellular Redistribution of the bHLH Transcription Factor Tfe3. Cell, 2013, 153, 335-347.	33.7	325
57	The mammalian germline as a pluripotency cycle. Development (Cambridge), 2013, 140, 2495-2501.	3.1	63
58	Rebuilding Pluripotency from Primordial Germ Cells. Stem Cell Reports, 2013, 1, 66-78.	4.4	66
59	Widespread resetting of DNA methylation in glioblastoma-initiating cells suppresses malignant cellular behavior in a lineage-dependent manner. Genes and Development, 2013, 27, 654-669.	4.6	130
60	Stem Cells Expanded from the Human Embryonic Hindbrain Stably Retain Regional Specification and High Neurogenic Potency. Journal of Neuroscience, 2013, 33, 12407-12422.	3.7	82
61	Automated Large-Scale Culture and Medium-Throughput Chemical Screen for Modulators of Proliferation and Viability of Human Induced Pluripotent Stem Cellâ€“Derived Neuroepithelial-like Stem Cells. SLAS Discovery, 2013, 18, 258-268.	2.4	42
62	A High-Content Small Molecule Screen Identifies Sensitivity of Glioblastoma Stem Cells to Inhibition of Polo-Like Kinase 1. PLoS ONE, 2013, 8, e77053.	2.3	60
63	A Genome-Wide RNAi Screen Reveals MAP Kinase Phosphatases as Key ERK Pathway Regulators during Embryonic Stem Cell Differentiation. PLoS Genetics, 2012, 8, e1003112.	3.2	78
64	Culture parameters for stable expansion, genetic modification and germline transmission of rat pluripotent stem cells. Biology Open, 2012, 1, 58-65.	1.2	35
65	Germline potential of parthenogenetic haploid mouse embryonic stem cells. Development (Cambridge), 2012, 139, 3301-3305.	3.1	76
66	Pluripotency in the Embryo and in Culture. Cold Spring Harbor Perspectives in Biology, 2012, 4, a008128-a008128.	7.2	280
67	JAK/STAT3 signalling is sufficient and dominant over antagonistic cues for the establishment of naive pluripotency. Nature Communications, 2012, 3, .	13.7	108
68	Induction of superficial cortical layer neurons from mouse embryonic stem cells by valproic acid. Neuroscience Research, 2012, 72, 23-31.	2.1	39
69	The Transcriptional and Epigenomic Foundations of Ground State Pluripotency. Cell, 2012, 149, 590-604.	33.7	830
70	Capture of Neuroepithelial-Like Stem Cells from Pluripotent Stem Cells Provides a Versatile System for In Vitro Production of Human Neurons. PLoS ONE, 2012, 7, e29597.	2.3	289
71	Esrrb Is a Pivotal Target of the Gsk3/Tcf3 Axis Regulating Embryonic Stem Cell Self-Renewal. Cell Stem Cell, 2012, 11, 491-504.	16.4	370
72	Treatment of a Mouse Model of Spinal Cord Injury by Transplantation of Human Induced Pluripotent Stem Cell-Derived Long-Term Self-Renewing Neuroepithelial-Like Stem Cells. Stem Cells, 2012, 30, 1163-1173.	3.2	223

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73	Self-organizing circuitry and emergent computation in mouse embryonic stem cells. Stem Cell Research, 2012, 8, 324-333.	0.6	21
74	The first reported generation of several induced pluripotent stem cell lines from homozygous and heterozygous Huntington's disease patients demonstrates mutation related enhanced lysosomal activity. Neurobiology of Disease, 2012, 46, 41-51.	5.1	166
75	Human hypoblast formation is not dependent on FGF signalling. Developmental Biology, 2012, 361, 358-363.	1.9	232
76	Interplay between FGF2 and BMP controls the self-renewal, dormancy and differentiation of rat neural stem cells. Journal of Cell Science, 2011, 124, 1867-1877.	2.4	62
77	'No' to ban on stem-cell patents. Nature, 2011, 472, 418-418.	37.9	11
78	Inhibition of glycogen synthase kinase-3 alleviates Tcf3 repression of the pluripotency network and increases embryonic stem cell resistance to differentiation. Nature Cell Biology, 2011, 13, 838-845.	16.3	498
79	The origin and identity of embryonic stem cells. Development (Cambridge), 2011, 138, 3-8.	3.1	194
80	Sox2 and Pax6 maintain the proliferative and developmental potential of gliogenic neural stem cells In vitro. Glia, 2011, 59, 1588-1599.	5.0	69
81	The Liberation of Embryonic Stem Cells. PLoS Genetics, 2011, 7, e1002019.	3.2	88
82	A PiggyBac-Based Recessive Screening Method to Identify Pluripotency Regulators. PLoS ONE, 2011, 6, e18189.	2.3	62
83	A genome-wide screen in EpiSCs identifies Nr5a nuclear receptors as potent inducers of ground state pluripotency. Development (Cambridge), 2010, 137, 3185-3192.	3.1	154
84	Embryonic germ cells from mice and rats exhibit properties consistent with a generic pluripotent ground state. Development (Cambridge), 2010, 137, 2279-2287.	3.1	142
85	Isolation and propagation of enteric neural crest progenitor cells from mouse embryonic stem cells and embryos. Development (Cambridge), 2010, 137, 693-704.	3.1	72
86	Mouse and human induced pluripotent stem cells as a source for multipotent Isl1 + cardiovascular progenitors. FASEB Journal, 2010, 24, 700-711.	0.6	113
87	Stat3 Activation Is Limiting for Reprogramming to Ground State Pluripotency. Cell Stem Cell, 2010, 7, 319-328.	16.4	228
88	CD133 (Prominin) Negative Human Neural Stem Cells Are Clonogenic and Tripotent. PLoS ONE, 2009, 4, e5498.	2.3	120
89	Suppression of Erk signalling promotes ground state pluripotency in the mouse embryo. Development (Cambridge), 2009, 136, 3215-3222.	3.1	571
90	Nanog Is the Gateway to the Pluripotent Ground State. Cell, 2009, 138, 722-737.	33.7	955

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91	Glioma Stem Cell Lines Expanded in Adherent Culture Have Tumor-Specific Phenotypes and Are Suitable for Chemical and Genetic Screens. Cell Stem Cell, 2009, 4, 568-580.	16.4	953
92	Brain Cancer Stem Cells: A Level Playing Field. Cell Stem Cell, 2009, 5, 468-469.	16.4	21
93	Oct4 and LIF/Stat3 Additively Induce KrÃ¼ppel Factors to Sustain Embryonic Stem Cell Self-Renewal. Cell Stem Cell, 2009, 5, 597-609.	16.4	355
94	Parameters influencing derivation of embryonic stem cells from murine embryos. Genesis, 2008, 46, 758-767.	1.2	92
95	The ground state of embryonic stem cell self-renewal. Nature, 2008, 453, 519-523.	37.9	3,299
96	Promotion of Reprogramming to Ground State Pluripotency by Signal Inhibition. PLoS Biology, 2008, 6, e253.	5.0	765
97	Long-term tripotent differentiation capacity of human neural stem (NS) cells in adherent culture. Molecular and Cellular Neurosciences, 2008, 38, 245-258.	2.2	213
98	Fibroblast growth factor induces a neural stem cell phenotype in foetal forebrain progenitors and during embryonic stem cell differentiation. Molecular and Cellular Neurosciences, 2008, 38, 393-403.	2.2	62
99	Capture of Authentic Embryonic Stem Cells from Rat Blastocysts. Cell, 2008, 135, 1287-1298.	33.7	748
100	Neuroepithelial Cells Supply an Initial Transient Wave of MSC Differentiation. Cell, 2007, 129, 1377-1388.	33.7	513
101	Essential Alterations of Heparan Sulfate During the Differentiation of Embryonic Stem Cells to Sox1-Enhanced Green Fluorescent Protein-Expressing Neural Progenitor Cells. Stem Cells, 2007, 25, 1913-1923.	3.2	134
102	Nanog safeguards pluripotency and mediates germline development. Nature, 2007, 450, 1230-1234.	37.9	1,414
103	Tripotential Differentiation of Adherently Expandable Neural Stem (NS) Cells. PLoS ONE, 2007, 2, e298.	2.3	99
104	Reprogramming Efficiency Following Somatic Cell Nuclear Transfer Is Influenced by the Differentiation and Methylation State of the Donor Nucleus. Stem Cells, 2006, 24, 2007-2013.	3.2	254
105	Nanog promotes transfer of pluripotency after cell fusion. Nature, 2006, 441, 997-1001.	37.9	329
106	Exploitation of adherent neural stem cells in basic and applied neurobiology. Regenerative Medicine, 2006, 1, 111-118.	2.0	28
107	Notch Promotes Neural Lineage Entry by Pluripotent Embryonic Stem Cells. PLoS Biology, 2006, 4, e121.	5.0	239
108	Adherent Neural Stem (NS) Cells from Fetal and Adult Forebrain. Cerebral Cortex, 2006, 16, i112-i120.	2.8	238

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109	Unequal segregation of parental chromosomes in embryonic stem cell hybrids. Molecular Reproduction and Development, 2005, 71, 305-314.	2.8	37
110	Niche-Independent Symmetrical Self-Renewal of a Mammalian Tissue Stem Cell. PLoS Biology, 2005, 3, e283.	5.0	794
111	Osteogenic and chondrogenic differentiation of embryonic stem cells in response to specific growth factors. Bone, 2005, 36, 758-769.	3.5	248
112	Characterization of the uterine phenotype during the peri-implantation period for LIF-null, MF1 strain mice. Developmental Biology, 2005, 281, 1-21.	1.9	89
113	Identification of Genes Regulated by Leukemia-Inhibitory Factor in the Mouse Uterus at the Time of Implantation. Molecular Endocrinology, 2004, 18, 2185-2195.	2.5	64
114	Self-renewal of teratocarcinoma and embryonic stem cells. Oncogene, 2004, 23, 7150-7160.	6.5	499
115	SoxB transcription factors specify neuroectodermal lineage choice in ES cells. Molecular and Cellular Neurosciences, 2004, 27, 332-342.	2.2	123
116	An unpaired mouse centromere passes consistently through male meiosis and does not significantly compromise spermatogenesis. Chromosoma, 2003, 112, 183-189.	2.0	11
117	Expression of the VEGF and angiopoietin genes in endometrial atypical hyperplasia and endometrial cancer. British Journal of Cancer, 2003, 89, 891-898.	5.5	48
118	Functional Expression Cloning of Nanog, a Pluripotency Sustaining Factor in Embryonic Stem Cells. Cell, 2003, 113, 643-655.	33.7	3,018
119	BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration with STAT3. Cell, 2003, 115, 281-292.	33.7	1,990
120	Screening for mammalian neural genes via fluorescence-activated cell sorter purification of neural precursors from Sox1 - gfp knock-in mice. Proceedings of the National Academy of Sciences of the United States of America, 2003,	7.5	238
121	Genesis of embryonic stem cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 1397-1402.	3.7	109
122	Rapid Loss of Oct-4 and Pluripotency in Cultured Rodent Blastocysts and Derivative Cell Lines1. Biology of Reproduction, 2003, 68, 222-229.	2.5	143
123	Normal timing of oligodendrocyte development from genetically engineered,lineage-selectable mouse ES cells. Journal of Cell Science, 2002, 115, 3657-3665.	2.4	123
124	Signalling, cell cycle and pluripotency in embryonic stem cells. Trends in Cell Biology, 2002, 12, 432-438.	12.1	672
125	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.	1.8	0
126	Functional gene screening in embryonic stem cells implicates Wnt antagonism in neural differentiation. Nature Biotechnology, 2002, 20, 1240-1245.	29.8	309

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127	Physiological rationale for responsiveness of mouse embryonic stem cells to gp130 cytokines. Development (Cambridge), 2001, 128, 2333-2339.	3.1	245
128	Steroids and endometrial breakthrough bleeding: future directions for research. Human Reproduction, 2000, 15, 197-202.	1.0	21
129	Suppression of SHP-2 and ERK Signalling Promotes Self-Renewal of Mouse Embryonic Stem Cells. Developmental Biology, 1999, 210, 30-43.	1.9	531
130	Cell therapy: In search of pluripotency. Current Biology, 1998, 8, R802-R804.	3.6	48
131	Generation of purified neural precursors from embryonic stem cells by lineage selection. Current Biology, 1998, 8, 971-S2.	3.6	450
132	Formation of Pluripotent Stem Cells in the Mammalian Embryo Depends on the POU Transcription Factor Oct4. Cell, 1998, 95, 379-391.	33.7	3,135
133	Paracrine Induction of Stem Cell Renewal by LIF-Deficient Cells: A New ES Cell Regulatory Pathway. Developmental Biology, 1998, 203, 149-162.	1.9	111
134	Self-renewal of pluripotent embryonic stem cells is mediated via activation ofâ€‰STAT3. Genes and Development, 1998, 12, 2048-2060.	4.6	1,400
135	Structure of the mouse leukaemia inhibitory factor receptor gene: regulated expression of mRNA encoding a soluble receptor isoform from an alternative 5â€² untranslated region. Biochemical Journal, 1997, 328, 879-888.	3.8	22
136	A Schwann cell mitogen accompanying regeneration of motor neurons. Nature, 1997, 390, 614-618.	37.9	177
137	Complementary tissue-specific expression of LIF and LIF-receptor mRNAs in early mouse embryogenesis. Mechanisms of Development, 1996, 57, 123-131.	2.6	133
138	Identification of a developmentally regulated protein tyrosine phosphatase in embryonic stem cells that is a marker of pluripotential epiblast and early mesoderm. Mechanisms of Development, 1996, 59, 153-164.	2.6	27
139	Essential function of LIF receptor in motor neurons. Nature, 1995, 378, 724-727.	37.9	320
140	Derivation of Germline Competent Embryonic Stem Cells with a Combination of Interleukin-6 and Soluble Interleukin-6 Receptor. Experimental Cell Research, 1994, 215, 237-239.	3.1	81
141	Maintenance of the pluripotential phenotype of embryonic stem cells through direct activation of gp130 signalling pathways. Mechanisms of Development, 1994, 45, 163-171.	2.6	201
142	Expression of alternative forms of differentiation inhibiting activity (DIA/LIF) during murine embryogenesis and in neonatal and adult tissues. Genesis, 1993, 14, 165-173.	3.3	52
143	A lncRNA fine tunes the dynamics of a cell state transition involving Lin28, let-7 and de novo DNA methylation. ELife, 0, 6, .	1.6	43
144	Title is missing!. , 0, .		1