Hitoshi Niwa

List of Publications by Year
in descending order

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91	19,976	36203	45213
papers	citations	51 h-index	90 g-index

95	95	95	17032
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative expression of Oct-3/4 defines differentiation, dedifferentiation or self-renewal of ES cells. Nature Genetics, 2000, 24, 372-376.	9.4	3,248
2	Formation of Pluripotent Stem Cells in the Mammalian Embryo Depends on the POU Transcription Factor Oct4. Cell, 1998, 95, 379-391.	13.5	3,037
3	Interaction between Oct3/4 and Cdx2 Determines Trophectoderm Differentiation. Cell, 2005, 123, 917-929.	13.5	1,062
4	Pluripotency governed by Sox2 via regulation of Oct3/4 expression in mouse embryonic stem cells. Nature Cell Biology, 2007, 9, 625-635.	4.6	1,061
5	The Hippo Signaling Pathway Components Lats and Yap Pattern Tead4 Activity to Distinguish Mouse Trophectoderm from Inner Cell Mass. Developmental Cell, 2009, 16, 398-410.	3.1	867
6	A parallel circuit of LIF signalling pathways maintains pluripotency of mouse ES cells. Nature, 2009, 460, 118-122.	13.7	777
7	How is pluripotency determined and maintained?. Development (Cambridge), 2007, 134, 635-646.	1.2	695
8	Genome analysis of the platypus reveals unique signatures of evolution. Nature, 2008, 453, 175-183.	13.7	657
9	Identification and characterization of subpopulations in undifferentiated ES cell culture. Development (Cambridge), 2008, 135, 909-918.	1.2	480
10	Differentiation of embryonic stem cells is induced by GATA factors. Genes and Development, 2002, 16, 784-789.	2.7	460
11	Molecular Pathway and Cell State Responsible for Dissociation-Induced Apoptosis in Human Pluripotent Stem Cells. Cell Stem Cell, 2010, 7, 225-239.	5.2	370
12	Esrrb Is a Pivotal Target of the Gsk3/Tcf3 Axis Regulating Embryonic Stem Cell Self-Renewal. Cell Stem Cell, 2012, 11, 491-504.	5.2	348
13	Targeting of both mouse neuropilin-1 and neuropilin-2 genes severely impairs developmental yolk sac and embryonic angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3657-3662.	3.3	338
14	Oct-3/4 and Sox2 Regulate Oct-3/4 Gene in Embryonic Stem Cells. Journal of Biological Chemistry, 2005, 280, 5307-5317.	1.6	328
15	Identification of Sox-2 regulatory region which is under the control of Oct-3/4-Sox-2 complex. Nucleic Acids Research, 2002, 30, 3202-3213.	6.5	272
16	Molecular Mechanism to Maintain Stem Cell Renewal of ES Cells.. Cell Structure and Function, 2001, 26, 137-148.	0.5	268
17	Phenotypic Complementation Establishes Requirements for Specific POU Domain and Generic Transactivation Function of Oct-3/4 in Embryonic Stem Cells. Molecular and Cellular Biology, 2002, 22, 1526-1536.	1.1	263
18	Fbx15 Is a Novel Target of Oct3/4 but Is Dispensable for Embryonic Stem Cell Self-Renewal and Mouse Development. Molecular and Cellular Biology, 2003, 23, 2699-2708.	1.1	252

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19	Klf4 Cooperates with Oct3/4 and Sox2 To Activate the Lefty1 Core Promoter in Embryonic Stem Cells. Molecular and Cellular Biology, 2006, 26, 7772-7782.	1.1	227
20	Synergistic action of Wnt and LIF in maintaining pluripotency of mouse ES cells. Biochemical and Biophysical Research Communications, 2006, 343, 159-166.	1.0	221
21	Gene Expression Profiling of Embryo-Derived Stem Cells Reveals Candidate Genes Associated With Pluripotency and Lineage Specificity. Genome Research, 2002, 12, 1921-1928.	2.4	200
22	Endoderm-Specific Gene Expression in Embryonic Stem Cells Differentiated to Embryoid Bodies. Experimental Cell Research, 1996, 229, 27-34.	1.2	198
23	Signaling Mechanisms Regulating Self-Renewal and Differentiation of Pluripotent Embryonic Stem Cells. Cells Tissues Organs, 1999, 165, 131-143.	1.3	178
24	KrÃ¼ppel-like factor 5 Is Essential for Blastocyst Development and the Normal Self-Renewal of Mouse ESCs. Cell Stem Cell, 2008, 3, 555-567.	5.2	177
25	Genetic Exploration of the Exit from Self-Renewal Using Haploid Embryonic Stem Cells. Cell Stem Cell, 2014, 14, 385-393.	5.2	170
26	Activin-Nodal signaling is involved in propagation of mouse embryonic stem cells. Journal of Cell Science, 2007, 120, 55-65.	1.2	163
27	Dissecting Oct3/4-Regulated Gene Networks in Embryonic Stem Cells by Expression Profiling. PLoS ONE, 2006, 1, e26.	1.1	161
28	Oct4 is required for lineage priming in the developing inner cell mass of the mouse blastocyst. Development (Cambridge), 2014, 141, 1001-1010.	1.2	146
29	Identification of Pou5f1, Sox2, and Nanog downstream target genes with statistical confidence by applying a novel algorithm to time course microarray and genome-wide chromatin immunoprecipitation data. BMC Genomics, 2008, 9, 269.	1.2	144
30	Molecular Signatures of the Three Stem Cell Lineages in Hydra and the Emergence of Stem Cell Function at the Base of Multicellularity. Molecular Biology and Evolution, 2012, 29, 3267-3280.	3.5	140
31	Extra-embryonic endoderm cells derived from ES cells induced by GATA Factors acquire the character of XEN cells. BMC Developmental Biology, 2007, 7, 80.	2.1	138
32	Context-Dependent Wiring of Sox2 Regulatory Networks for Self-Renewal of Embryonic and Trophoblast Stem Cells. Molecular Cell, 2013, 52, 380-392.	4.5	122
33	Involvement of Oct3/4 in the enhancement of neuronal differentiation of ES cells in neurogenesis-inducing cultures. Development (Cambridge), 2003, 130, 2505-2512.	1.2	116
34	MEIOSIN Directs the Switch from Mitosis to Meiosis in Mammalian Germ Cells. Developmental Cell, 2020, 52, 429-445.e10.	3.1	114
35	Enhanced Genomic Instability and Defective Postreplication Repair in RAD18 Knockout Mouse Embryonic Stem Cells. Molecular and Cellular Biology, 2003, 23, 474-481.	1.1	112
36	A novel mechanism for regulating clonal propagation of mouse ES cells. Genes To Cells, 2004, 9, 471-477.	0.5	112

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37	Rex1/Zfp42 is dispensable for pluripotency in mouse ES cells. BMC Developmental Biology, 2008, 8, 45.	2.1	110
38	Inhibition of DNA binding of Sox2 by the SUMO conjugation. Biochemical and Biophysical Research Communications, 2006, 351, 920-926.	1.0	103
39	An efficient system to establish multiple embryonic stem cell lines carrying an inducible expression unit. Nucleic Acids Research, 2005, 33, e43-e43.	6.5	100
40	The Sox-2 Regulatory Regions Display Their Activities in Two Distinct Types of Multipotent Stem Cells. Molecular and Cellular Biology, 2004, 24, 4207-4220.	1.1	93
41	Oct-3/4 Maintains the Proliferative Embryonic Stem Cell State via Specific Binding to a Variant Octamer Sequence in the Regulatory Region of the UTF1 Locus. Molecular and Cellular Biology, 2005, 25, 5084-5094.	1.1	92
42	Sall4 Is Essential for Stabilization, But Not for Pluripotency, of Embryonic Stem Cells by Repressing Aberrant Trophectoderm Gene Expression. Stem Cells, 2009, 27, 796-805.	1.4	89
43	Open conformation chromatin and pluripotency. Genes and Development, 2007, 21, 2671-2676.	2.7	86
44	Nuclear and chromatin reorganization in the MHC-Oct3/4 locus at developmental phases of embryonic stem cell differentiation. Developmental Biology, 2006, 298, 354-367.	0.9	84
45	Transcriptional regulatory networks in epiblast cells and during anterior neural plate development as modeled in epiblast stem cells. Development (Cambridge), 2012, 139, 3926-3937.	1.2	75
46	Dax1 Binds to Oct3/4 and Inhibits Its Transcriptional Activity in Embryonic Stem Cells. Molecular and Cellular Biology, 2009, 29, 4574-4583.	1.1	68
47	The principles that govern transcription factor network functions in stem cells. Development (Cambridge), 2018, 145, .	1.2	64
48	Platypus Pou5f1 reveals the first steps in the evolution of trophectoderm differentiation and pluripotency in mammals. Evolution & Development, 2008, 10, 671-682.	1.1	60
49	E-Cadherin Promotes Incorporation of Mouse Epiblast Stem Cells into Normal Development. PLoS ONE, 2012, 7, e45220.	1.1	59
50	Requirement of Oct3/4 function for germ cell specification. Developmental Biology, 2008, 317, 576-584.	0.9	53
51	Mouse ES cell culture system as a model of development. Development Growth and Differentiation, 2010, 52, 275-283.	0.6	44
52	LIF signal in mouse embryonic stem cells. Jak-stat, 2015, 4, 1-9.	2.2	44
53	Zscan4 Is Activated after Telomere Shortening in Mouse Embryonic StemÂCells. Stem Cell Reports, 2016, 6, 483-495.	2.3	44
54	Overlapping function of klf family targets multiple transcription factors to maintain naÃ¯ve pluripotency of ES cells. Development (Cambridge), 2018, 145, .	1.2	40

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55	Identification of Zfp-57 as a downstream molecule of STAT3 and Oct-3/4 in embryonic stem cells. Biochemical and Biophysical Research Communications, 2005, 331, 23-30.	1.0	38
56	Defining Developmental Potency and Cell Lineage Trajectories by Expression Profiling of Differentiating Mouse Embryonic Stem Cells. DNA Research, 2009, 16, 73-80.	1.5	38
57	Stem cell-specific expression of Dax1 is conferred by STAT3 and Oct3/4 in embryonic stem cells. Biochemical and Biophysical Research Communications, 2008, 372, 91-96.	1.0	37
58	DNA Methylation Restricts Lineage-specific Functions of Transcription Factor Gata4 during Embryonic Stem Cell Differentiation. PLoS Genetics, 2013, 9, e1003574.	1.5	37
59	Nr0b1 is a negative regulator of Zscan4c in mouse embryonic stem cells. Scientific Reports, 2015, 5, 9146.	1.6	36
60	The pluripotency transcription factor network at work in reprogramming. Current Opinion in Genetics and Development, 2014, 28, 25-31.	1.5	34
61	The POU-er of gene nomenclature. Development (Cambridge), 2014, 141, 2921-2923.	1.2	33
62	The evolutionally-conserved function of group B1 Sox family members confers the unique role of Sox2 in mouse ES cells. BMC Evolutionary Biology, 2016, 16, 173.	3.2	33
63	Eed/Sox2 regulatory loop controls ES cell self-renewal through histone methylation and acetylation. EMBO Journal, 2011, 30, 2190-2204.	3.5	28
64	Efficient conversion of ES cells into myogenic lineage using the gene-inducible system. Biochemical and Biophysical Research Communications, 2007, 357, 957-963.	1.0	27
65	Zscan4 Is Regulated by PI3-Kinase and DNA-Damaging Agents and Directly Interacts with the Transcriptional Repressors LSD1 and CtBP2 in Mouse Embryonic Stem Cells. PLoS ONE, 2014, 9, e89821.	1.1	27
66	Kinetics of drug selection systems in mouse embryonic stem cells. BMC Biotechnology, 2013, 13, 64.	1.7	25
67	Choice of random rather than imprinted X inactivation in female embryonic stem cell-derived extra-embryonic cells. Development (Cambridge), 2011, 138, 197-202.	1.2	24
68	Differential expression of mRNAs for PACAP and its receptors during neural differentiation of embryonic stem cells. Regulatory Peptides, 2005, 126, 109-113.	1.9	20
69	Mesenchymal-epithelial transition regulates initiation of pluripotency exit before gastrulation. Development (Cambridge), 2020, 147, .	1.2	20
70	Establishment of bone marrow-derived M-CSF receptor-dependent self-renewing macrophages. Cell Death Discovery, 2020, 6, 63.	2.0	18
71	Transcription Factor Network in Embryonic Stem Cells: Heterogeneity under the Stringency. Biological and Pharmaceutical Bulletin, 2013, 36, 166-170.	0.6	17
72	The differential activation of intracellular signaling pathways confers the permissiveness of embryonic stem cell derivation from different mouse strains. Development (Cambridge), 2015, 142, 431-7.	1.2	17

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73	Klf5 suppresses ERK signaling in mouse pluripotent stem cells. PLoS ONE, 2018, 13, e0207321.	1.1	17
74	Meiosis-specific ZFP541 repressor complex promotes developmental progression of meiotic prophase towards completion during mouse spermatogenesis. Nature Communications, 2021, 12, 3184.	5.8	17
75	Molecular detection of maturation stages in the developing kidney. Developmental Biology, 2021, 470, 62-73.	0.9	14
76	Zscan10 is dispensable for maintenance of pluripotency in mouse embryonic stem cells. Biochemical and Biophysical Research Communications, 2015, 468, 826-831.	1.0	12
77	Distinct transcriptional programs of SOX2 in different types of small cell lung cancers. Laboratory Investigation, 2020, 100, 1575-1588.	1.7	11
78	Sox7 is dispensable for primitive endoderm differentiation from mouse ES cells. BMC Developmental Biology, 2015, 15, 37.	2.1	10
79	CrxOS maintains the self-renewal capacity of murine embryonic stem cells. Biochemical and Biophysical Research Communications, 2009, 390, 1129-1135.	1.0	9
80	Co-precipitation molecules hemopexin and transferrin may be key molecules for fibrillogenesis in TTR V30M amyloidogenesis. Transgenic Research, 2018, 27, 15-23.	1.3	9
81	The Câ€terminal region of Xpc is dispensable for the transcriptional activity of Oct3/4 in mouse embryonic stem cells. FEBS Letters, 2014, 588, 1128-1135.	1.3	8
82	Investigation of the cellular reprogramming phenomenon referred to as stimulus-triggered acquisition of pluripotency (STAP). Scientific Reports, 2016, 6, 28003.	1.6	8
83	A liaison between intrinsic and extrinsic regulators of pluripotency. EMBO Journal, 2013, 32, 2531-2532.	3.5	7
84	MEAF6 is essential for cell proliferation and plays a role in the assembly of KAT7 complexes. Experimental Cell Research, 2020, 396, 112279.	1.2	5
85	Selective de-repression of germ cell-specific genes in mouse embryonic fibroblasts in a permissive epigenetic environment. Scientific Reports, 2016, 6, 32932.	1.6	4
86	Transcriptional regulatory networks in epiblast cells and during anterior neural plate development as modeled in epiblast stem cells. Development (Cambridge), 2012, 139, 4675-4675.	1.2	2
87	A Stepping Stone to Pluripotency. Cell, 2015, 163, 1570-1572.	13.5	2
88	Mechanisms of Stem Cell Self-renewal. , 2009, , 73-80.		1
89	Mechanisms of Stem Cell Self-Renewal. , 2004, , 45-52.		0
90	Mechanisms of Stem Cell Self-Renewal. , 2013, , 67-76.		0

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91	Choice of random rather than imprinted X inactivation in female embryonic stem cell-derived extra-embryonic cells. Development (Cambridge), 2014, 141, 2913-2917.	1.2	0