Hitoshi Niwa

List of Publications by Year
in descending order

91 papers	19,976 citations	36203 51 h-index	45213 90 g-index
95 all docs	95 docs citations	95 times ranked	17032 citing authors

#	Article	IF	Citations
1	Molecular detection of maturation stages in the developing kidney. Developmental Biology, 2021, 470, 62-73.	0.9	14
2	Meiosis-specific ZFP541 repressor complex promotes developmental progression of meiotic prophase towards completion during mouse spermatogenesis. Nature Communications, 2021, 12, 3184.	5.8	17
3	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
4	Establishment of bone marrow-derived M-CSF receptor-dependent self-renewing macrophages. Cell Death Discovery, 2020, 6, 63.	2.0	18
5	Distinct transcriptional programs of SOX2 in different types of small cell lung cancers. Laboratory Investigation, 2020, 100, 1575-1588.	1.7	11
6	Mesenchymal-epithelial transition regulates initiation of pluripotency exit before gastrulation. Development (Cambridge), 2020, 147, .	1.2	20
7	MEIOSIN Directs the Switch from Mitosis to Meiosis in Mammalian Germ Cells. Developmental Cell, 2020, 52, 429-445.e10.	3.1	114
8	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
9	The principles that govern transcription factor network functions in stem cells. Development (Cambridge), 2018, 145, .	1.2	64
10	Klf5 suppresses ERK signaling in mouse pluripotent stem cells. PLoS ONE, 2018, 13, e0207321.	1.1	17
11	Overlapping function of klf family targets multiple transcription factors to maintain naÃ¯ve pluripotency of ES cells. Development (Cambridge), 2018, 145, .	1.2	40
12	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
13	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
14	Investigation of the cellular reprogramming phenomenon referred to as stimulus-triggered acquisition of pluripotency (STAP). Scientific Reports, 2016, 6, 28003.	1.6	8
15	Zscan4 Is Activated after Telomere Shortening in Mouse Embryonic StemÂCells. Stem Cell Reports, 2016, 6, 483-495.	2.3	44
16	Nr0b1 is a negative regulator of Zscan4c in mouse embryonic stem cells. Scientific Reports, 2015, 5, 9146.	1.6	36
17	A Stepping Stone to Pluripotency. Cell, 2015, 163, 1570-1572.	13.5	2
18	Sox7 is dispensable for primitive endoderm differentiation from mouse ES cells. BMC Developmental Biology, 2015, 15, 37.	2.1	10

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19	LIF signal in mouse embryonic stem cells. Jak-stat, 2015, 4, 1-9.	2.2	44
20	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
21	Zscan10 is dispensable for maintenance of pluripotency in mouse embryonic stem cells. Biochemical and Biophysical Research Communications, 2015, 468, 826-831.	1.0	12
22	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
23	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
24	The POU-er of gene nomenclature. Development (Cambridge), 2014, 141, 2921-2923.	1.2	33
25	The pluripotency transcription factor network at work in reprogramming. Current Opinion in Genetics and Development, 2014, 28, 25-31.	1.5	34
26	The Câ€terminal region of <i>Xpc</i> is dispensable for the transcriptional activity of Oct3/4 in mouse embryonic stem cells. FEBS Letters, 2014, 588, 1128-1135.	1.3	8
27	Genetic Exploration of the Exit from Self-Renewal Using Haploid Embryonic Stem Cells. Cell Stem Cell, 2014, 14, 385-393.	5.2	170
28	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
29	Transcription Factor Network in Embryonic Stem Cells: Heterogeneity under the Stringency. Biological and Pharmaceutical Bulletin, 2013, 36, 166-170.	0.6	17
30	Kinetics of drug selection systems in mouse embryonic stem cells. BMC Biotechnology, 2013, 13, 64.	1.7	25
31	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
32	Mechanisms of Stem Cell Self-Renewal. , 2013, , 67-76.		0
33	A liaison between intrinsic and extrinsic regulators of pluripotency. EMBO Journal, 2013, 32, 2531-2532.	3.5	7
34	DNA Methylation Restricts Lineage-specific Functions of Transcription Factor Gata4 during Embryonic Stem Cell Differentiation. PLoS Genetics, 2013, 9, e1003574.	1.5	37
35	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
36	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

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37	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
38	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
39	E-Cadherin Promotes Incorporation of Mouse Epiblast Stem Cells into Normal Development. PLoS ONE, 2012, 7, e45220.	1.1	59
40	Eed/Sox2 regulatory loop controls ES cell self-renewal through histone methylation and acetylation. EMBO Journal, 2011, 30, 2190-2204.	3.5	28
41	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
42	Mouse ES cell culture system as a model of development. Development Growth and Differentiation, 2010, 52, 275-283.	0.6	44
43	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
44	Mechanisms of Stem Cell Self-renewal. , 2009, , 73-80.		1
45	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
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	<i>Sall4</i> 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
48	A parallel circuit of LIF signalling pathways maintains pluripotency of mouse ES cells. Nature, 2009, 460, 118-122.	13.7	777
49	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
50	CrxOS maintains the self-renewal capacity of murine embryonic stem cells. Biochemical and Biophysical Research Communications, 2009, 390, 1129-1135.	1.0	9
51	Rex1/Zfp42 is dispensable for pluripotency in mouse ES cells. BMC Developmental Biology, 2008, 8, 45.	2.1	110
52	Genome analysis of the platypus reveals unique signatures of evolution. Nature, 2008, 453, 175-183.	13.7	657
53	Platypus <i>Pou5f1</i> reveals the first steps in the evolution of trophectoderm differentiation and pluripotency in mammals. Evolution & Development, 2008, 10, 671-682.	1.1	60
54	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

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55	Requirement of Oct3/4 function for germ cell specification. Developmental Biology, 2008, 317, 576-584.	0.9	53
56	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
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	Identification and characterization of subpopulations in undifferentiated ES cell culture. Development (Cambridge), 2008, 135, 909-918.	1.2	480
59	Open conformation chromatin and pluripotency. Genes and Development, 2007, 21, 2671-2676.	2.7	86
60	Activin-Nodal signaling is involved in propagation of mouse embryonic stem cells. Journal of Cell Science, 2007, 120, 55-65.	1.2	163
61	How is pluripotency determined and maintained?. Development (Cambridge), 2007, 134, 635-646.	1.2	695
62	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
63	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
64	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
65	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
66	Inhibition of DNA binding of Sox2 by the SUMO conjugation. Biochemical and Biophysical Research Communications, 2006, 351, 920-926.	1.0	103
67	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
68	Dissecting Oct3/4-Regulated Gene Networks in Embryonic Stem Cells by Expression Profiling. PLoS ONE, 2006, 1, e26.	1.1	161
69	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
70	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
71	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
72	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

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73	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
74	Interaction between Oct3/4 and Cdx2 Determines Trophectoderm Differentiation. Cell, 2005, 123, 917-929.	13.5	1,062
75	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
76	Mechanisms of Stem Cell Self-Renewal. , 2004, , 45-52.		0
77	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
78	A novel mechanism for regulating clonal propagation of mouse ES cells. Genes To Cells, 2004, 9, 471-477.	0.5	112
79	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
80	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
81	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
82	Differentiation of embryonic stem cells is induced by GATA factors. Genes and Development, 2002, 16, 784-789.	2.7	460
83	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
84	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
85	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
86	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
87	Molecular Mechanism to Maintain Stem Cell Renewal of ES Cells.. Cell Structure and Function, 2001, 26, 137-148.	0.5	268
88	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
89	Signaling Mechanisms Regulating Self-Renewal and Differentiation of Pluripotent Embryonic Stem Cells. Cells Tissues Organs, 1999, 165, 131-143.	1.3	178
90	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

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91	Endoderm-Specific Gene Expression in Embryonic Stem Cells Differentiated to Embryoid Bodies. Experimental Cell Research, 1996, 229, 27-34.	1.2	198