Kwang-Soo Kim

List of Publications by Year
in descending order

110 papers	10,320 citations	44069 48 h-index	33894 99 g-index
111 all docs	111 docs citations	111 times ranked	11721 citing authors

#	Article	IF	Citations
1	Generation of Human Induced Pluripotent Stem Cells by Direct Delivery of Reprogramming Proteins. Cell Stem Cell, 2009, 4, 472-476.	11.1	1,685
2	Embryonic stem cells develop into functional dopaminergic neurons after transplantation in a Parkinson rat model. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2344-2349.	7.1	1,126
3	Hemangioblastic Derivatives from Human Induced Pluripotent Stem Cells Exhibit Limited Expansion and Early Senescence. Stem Cells, 2010, 28, 704-712.	3.2	354
4	Personalized iPSC-Derived Dopamine Progenitor Cells for Parkinsonâ€™s Disease. New England Journal of Medicine, 2020, 382, 1926-1932.	27.0	298
5	In vitro and in vivo analyses of human embryonic stem cell-derived dopamine neurons. Journal of Neurochemistry, 2005, 92, 1265-1276.	3.9	265
6	A Quantitative-Trait Analysis of Human Plasmaâ€"Dopamine Î²-Hydroxylase Activity: Evidence for a Major Functional Polymorphism at the DBH Locus. American Journal of Human Genetics, 2001, 68, 515-522.	6.2	253
7	Essential Role for TRPC5 in Amygdala Function and Fear-Related Behavior. Cell, 2009, 137, 761-772.	28.9	245
8	Impact of Circadian Nuclear Receptor REV-ERBÎ± on Midbrain Dopamine Production and Mood Regulation. Cell, 2014, 157, 858-868.	28.9	242
9	Selective loss of dopaminergic neurons in the substantia nigra of Pitx3-deficient aphakia mice. Molecular Brain Research, 2003, 114, 123-131.	2.3	235
10	Genetic engineering of mouse embryonic stem cells by Nurr1 enhances differentiation and maturation into dopaminergic neurons. European Journal of Neuroscience, 2002, 16, 1829-1838.	2.6	224
11	Inhibition of pluripotent stem cell-derived teratoma formation by small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3281-90.	7.1	217
12	Protein-based human iPS cells efficiently generate functional dopamine neurons and can treat a rat model of Parkinson disease. Journal of Clinical Investigation, 2011, 121, 2326-2335.	8.2	211
13	Scalable Generation of Universal Platelets from Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2014, 3, 817-831.	4.8	195
14	Orphan nuclear receptor Nurr1 directly transactivates the promoter activity of the tyrosine hydroxylase gene in a cellâ€specific manner. Journal of Neurochemistry, 2003, 85, 622-634.	3.9	186
15	Wnt1-lmx1a Forms a Novel Autoregulatory Loop and Controls Midbrain Dopaminergic Differentiation Synergistically with the SHH-FoxA2 Pathway. Cell Stem Cell, 2009, 5, 646-658.	11.1	172
16	3,4-Dihydroxyphenylalanine Reverses the Motor Deficits in Pitx3-Deficient Aphakia Mice: Behavioral Characterization of a Novel Genetic Model of Parkinson's Disease. Journal of Neuroscience, 2005, 25, 2132-2137.	3.6	162
17	A High-Efficiency Synthetic Promoter That Drives Transgene Expression Selectively in Noradrenergic Neurons. Human Gene Therapy, 2001, 12, 1731-1740.	2.7	150
18	Nuclear receptor Nurr1 agonists enhance its dual functions and improve behavioral deficits in an animal model of Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8756-8761.	7.1	147

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19	Analysis of Different Promoter Systems for Efficient Transgene Expression in Mouse Embryonic Stem Cell Lines. Stem Cells, 2002, 20, 139-145.	3.2	140
20	The homeodomain transcription factor Pitx3 facilitates differentiation of mouse embryonic stem cells into AHD2-expressing dopaminergic neurons. Molecular and Cellular Neurosciences, 2005, 28, 241-252.	2.2	138
21	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200câ€“SIRT2 axis. Nature Cell Biology, 2017, 19, 445-456.	10.3	138
22	Genetic selection of sox1GFPâ€expressing neural precursors removes residual tumorigenic pluripotent stem cells and attenuates tumor formation after transplantation. Journal of Neurochemistry, 2006, 97, 1467-1480.	3.9	137
23	Functional Analysis of Various Promoters in Lentiviral Vectors at Different Stages of In Vitro Differentiation of Mouse Embryonic Stem Cells. Molecular Therapy, 2007, 15, 1630-1639.	8.2	135
24	Embryonic Stem Cell-Derived Pitx3-Enhanced Green Fluorescent Protein Midbrain Dopamine Neurons Survive Enrichment by Fluorescence-Activated Cell Sorting and Function in an Animal Model of Parkinson's Disease. Stem Cells, 2008, 26, 1526-1536.	3.2	135
25	<i>Paired</i>â€Like Homeodomain Proteins, Phox2a and Phox2b, Are Responsible for Noradrenergic Cellâ€Specific Transcription of the Dopamine Î²â€Hydroxylase Gene. Journal of Neurochemistry, 1998, 71, 1813-1826.	3.9	123
26	Noradrenergic-Specific Transcription of the Dopamine Î²-Hydroxylase Gene Requires Synergy of MultipleCis-Acting Elements Including at Least Two Phox2a-Binding Sites. Journal of Neuroscience, 1998, 18, 8247-8260.	3.6	112
27	Human autologous iPSCâ€“derived dopaminergic progenitors restore motor function in Parkinsonâ€™s disease models. Journal of Clinical Investigation, 2020, 130, 904-920.	8.2	102
28	Maternal and early postnatal immune activation produce sex-specific effects on autism-like behaviors and neuroimmune function in mice. Scientific Reports, 2019, 9, 16928.	3.3	98
29	Stromal Cell-Derived Inducing Activity, Nurr1, and Signaling Molecules Synergistically Induce Dopaminergic Neurons from Mouse Embryonic Stem Cells. Stem Cells, 2006, 24, 557-567.	3.2	97
30	A Previously Undescribed Intron and Extensive 5â€² Upstream Sequence, but Not Phox2a-mediated Transactivation, Are Necessary for High Level Cell Type-specific Expression of the Human Norepinephrine Transporter Gene. Journal of Biological Chemistry, 1999, 274, 6507-6518.	3.4	93
31	Effects of Chronic Social Defeat Stress on Sleep and Circadian Rhythms Are Mitigated by Kappa-Opioid Receptor Antagonism. Journal of Neuroscience, 2017, 37, 7656-7668.	3.6	92
32	The RAB39B p.G192R mutation causes X-linked dominant Parkinsonâ€™s disease. Molecular Neurodegeneration, 2015, 10, 50.	10.8	91
33	Mutations in the dopamine ?-hydroxylase gene are associated with human norepinephrine deficiency. American Journal of Medical Genetics Part A, 2002, 108, 140-147.	2.4	88
34	ES cell-derived renewable and functional midbrain dopaminergic progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9703-9708.	7.1	86
35	Pluripotent stem cell-based therapy for Parkinsonâ€™s disease: Current status and future prospects. Progress in Neurobiology, 2018, 168, 1-20.	5.7	84
36	Nurr1 (NR4A2) regulates Alzheimerâ€™s diseaseâ€related pathogenesis and cognitive function in the 5XFAD mouse model. Aging Cell, 2019, 18, e12866.	6.7	72

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37	Temporally induced Nurr1 can induce a non-neuronal dopaminergic cell type in embryonic stem cell differentiation. European Journal of Neuroscience, 2004, 19, 1141-1152.	2.6	70
38	Neural Precursors Derived from Embryonic Stem Cells, but Not Those from Fetal Ventral Mesencephalon, Maintain the Potential to Differentiate into Dopaminergic Neurons After Expansion In Vitro. Stem Cells, 2006, 24, 1583-1593.	3.2	70
39	Neural precursors derived from human embryonic stem cells maintain long-term proliferation without losing the potential to differentiate into all three neural lineages, including dopaminergic neurons. Journal of Neurochemistry, 2007, 104, 071018045431005-???.	3.9	68
40	Regulation of the tyrosine hydroxylase and dopamine Î²-hydroxylase genes by the transcription factor AP-2. Journal of Neurochemistry, 2009, 76, 280-294.	3.9	68
41	Structure/Function Relationship of the cAMP Response Element in Tyrosine Hydroxylase Gene Transcription. Journal of Biological Chemistry, 1997, 272, 19158-19164.	3.4	67
42	Maternal and Early Postnatal Immune Activation Produce Dissociable Effects on Neurotransmission in mPFCâ€“Amygdala Circuits. Journal of Neuroscience, 2018, 38, 3358-3372.	3.6	65
43	Multiple Protein Factors Interact with the cis-Regulatory Elements of the Proximal Promoter in a Cell-Specific Manner and Reg ulate Transcription of the Dopamine b-Hydroxylase Gene. Journal of Neuroscience, 1996, 16, 4102-4112.	3.6	61
44	Selection of Embryonic Stem Cell-Derived Enhanced Green Fluorescent Protein-Positive Dopamine Neurons Using the Tyrosine Hydroxylase Promoter Is Confounded by Reporter Gene Expression in Immature Cell Populations. Stem Cells, 2007, 25, 1126-1135.	3.2	59
45	Chronic 3,4-dihydroxyphenylalanine treatment induces dyskinesia in aphakia mice, a novel genetic model of Parkinsonâ€™s disease. Neurobiology of Disease, 2007, 27, 11-23.	4.4	59
46	Differential actions of the proneural genes encoding Mash1 and neurogenins in Nurr1-induced dopamine neuron differentiation. Journal of Cell Science, 2006, 119, 2310-2320.	2.0	58
47	Induction of unfolded protein response during neuronal induction of rat bone marrow stromal cells and mouse embryonic stem cells. Experimental and Molecular Medicine, 2009, 41, 440.	7.7	54
48	Direct Reprogramming of Rat Neural Precursor Cells and Fibroblasts into Pluripotent Stem Cells. PLoS ONE, 2010, 5, e9838.	2.5	54
49	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. Nature Chemical Biology, 2020, 16, 876-886.	8.0	51
50	Identification and Characterization of Potential <i>cis</i>â€Regulatory Elements Governing Transcriptional Activation of the Rat Tyrosine Hydroxylase Gene. Journal of Neurochemistry, 1998, 71, 1358-1368.	3.9	50
51	Title is missing!. Molecular and Cellular Biochemistry, 2000, 212, 51-60.	3.1	49
52	Impaired learning and memory in Pitx3 deficient aphakia mice: A genetic model for striatum-dependent cognitive symptoms in Parkinson's disease. Neurobiology of Disease, 2008, 31, 406-412.	4.4	48
53	MiR-126 Regulates Growth Factor Activities and Vulnerability to Toxic Insult in Neurons. Molecular Neurobiology, 2016, 53, 95-108.	4.0	48
54	Vesicular monoamine transporter 2 and dopamine transporter are molecular targets of Pitx3 in the ventral midbrain dopamine neurons. Journal of Neurochemistry, 2009, 111, 1202-1212.	3.9	47

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55	A direct role of the homeodomain proteins Phox2a/2b in noradrenaline neurotransmitter identity determination. Journal of Neurochemistry, 2002, 80, 905-916.	3.9	41
56	Functional Roles of Nurr1, Pitx3, and Lmx1a in Neurogenesis and Phenotype Specification of Dopamine Neurons During In Vitro Differentiation of Embryonic Stem Cells. Stem Cells and Development, 2014, 23, 477-487.	2.1	36
57	Functional Gene Variation in the Human Norepinephrine Transporter. Annals of the New York Academy of Sciences, 2008, 1129, 256-260.	3.8	35
58	Regulation of the Noradrenaline Neurotransmitter Phenotype by the Transcription Factor AP-2Î². Journal of Biological Chemistry, 2008, 283, 16860-16867.	3.4	35
59	Expression of the LRRK2 gene in the midbrain dopaminergic neurons of the substantia nigra. Neuroscience Letters, 2008, 442, 190-194.	2.1	34
60	Correlation between orphan nuclear receptor Nurr1 expression and amyloid deposition in 5<scp>XFAD</scp> mice, an animal model of Alzheimer's disease. Journal of Neurochemistry, 2015, 132, 254-262.	3.9	34
61	Regulation of tyrosine hydroxylase gene expression by retinoic acid receptor. Journal of Neurochemistry, 2006, 98, 386-394.	3.9	32
62	Daphnane Diterpenes from <i>Daphne genkwa</i> Activate Nurr1 and Have a Neuroprotective Effect in an Animal Model of Parkinsonâ€™s Disease. Journal of Natural Products, 2016, 79, 1604-1609.	3.0	32
63	Regulation of the tyrosine hydroxylase gene promoter by histone deacetylase inhibitors. Biochemical and Biophysical Research Communications, 2003, 312, 950-957.	2.1	30
64	Transcription Elongation Factor <i>Tcea3</i> Regulates the Pluripotent Differentiation Potential of Mouse Embryonic Stem Cells Via the <i>Lefty1</i>-Nodal-Smad2 Pathway. Stem Cells, 2013, 31, 282-292.	3.2	30
65	LRRK2 interferes with aggresome formation for autophagic clearance. Molecular and Cellular Neurosciences, 2016, 75, 71-80.	2.2	30
66	Chloroquine modulates inflammatory autoimmune responses through Nurr1 in autoimmune diseases. Scientific Reports, 2019, 9, 15559.	3.3	29
67	GATA-3 regulates the transcriptional activity of tyrosine hydroxylase by interacting with CREB. Journal of Neurochemistry, 2006, 98, 773-781.	3.9	28
68	Transcription Factor GATA-3 Regulates the Transcriptional Activity of Dopamine Î²-Hydroxylase by Interacting with Sp1 and AP4. Neurochemical Research, 2008, 33, 1821-1831.	3.3	28
69	SIRT2 regulates mitochondrial dynamics and reprogramming via MEK1-ERK-DRP1 and AKT1-DRP1 axes. Cell Reports, 2021, 37, 110155.	6.4	28
70	Norepinephrine Deficiency Is Caused by Combined Abnormal mRNA Processing and Defective Protein Trafficking of Dopamine Î²-Hydroxylase. Journal of Biological Chemistry, 2011, 286, 9196-9204.	3.4	25
71	Stem Cell Grafting Improves Both Motor and Cognitive Impairments in a Genetic Model of Parkinson's Disease, the Aphakia (<i>ak</i>) Mouse. Cell Transplantation, 2013, 22, 1263-1279.	2.5	25
72	A Proximal Promoter Domain Containing a Homeodomain-Binding Core Motif Interacts with Multiple Transcription Factors, Including HoxA5 and Phox2 Proteins, and Critically Regulates Cell Type-Specific Transcription of the Human Norepinephrine Transporter Gene. Journal of Neuroscience, 2002, 22, 2579-2589.	3.6	23

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73	Structural and functional characterization of the 5â€² upstream promoter of the human Phox2a gene: possible direct transactivation by transcription factor Phox2b. Journal of Neurochemistry, 2002, 79, 1225-1236.	3.9	21
74	Association studies of â^ˆ'3081(A/T) polymorphism of norepinephrine transporter gene with attention deficit/hyperactivity disorder in Korean population. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2010, 153B, 691-694.	1.7	21
75	Increased Genomic Integrity of an Improved Protein-Based Mouse Induced Pluripotent Stem Cell Method Compared With Current Viral-Induced Strategies. Stem Cells Translational Medicine, 2014, 3, 599-609.	3.3	21
76	Trim11 increases expression of dopamine Î²-hydroxylase gene by interacting with Phox2b. Biochemical and Biophysical Research Communications, 2008, 368, 650-655.	2.1	20
77	Molecular and Functional Analyses of Motor Neurons Generated from Human Cord-Blood-Derived Induced Pluripotent Stem Cells. Stem Cells and Development, 2014, 23, 3011-3020.	2.1	20
78	Regional Reductions of Transketolase in Thiamine-Deficient Rat Brain. Journal of Neurochemistry, 2002, 67, 684-691.	3.9	19
79	Gene transfer in the nervous system and implications for transsynaptic neuronal tracing. Expert Opinion on Biological Therapy, 2010, 10, 763-772.	3.1	19
80	Age-associated changes in mRNA levels of Phox2, norepinephrine transporter and dopamine Î²-hydroxylase in the locus coeruleus and adrenal glands of rats. Journal of Neurochemistry, 2005, 94, 828-838.	3.9	18
81	Pitx3 deficient mice as a genetic animal model of co-morbid depressive disorder and parkinsonism. Brain Research, 2014, 1552, 72-81.	2.2	18
82	4-amino-7-chloroquinoline derivatives for treating Parkinsonâ€™s disease: implications for drug discovery. Expert Opinion on Drug Discovery, 2016, 11, 337-341.	5.0	18
83	Toward neuroprotective treatments of Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3795-3797.	7.1	18
84	Induced pluripotent stem (iPS) cells and their future in psychiatry. Neuropsychopharmacology, 2010, 35, 346-348.	5.4	15
85	Transcription factor AP-2Î² regulates the neurotransmitter phenotype and maturation of chromaffin cells. Molecular and Cellular Neurosciences, 2011, 46, 245-251.	2.2	15
86	Converting Human Skin Cells to Neurons: A New Tool to Study and Treat Brain Disorders?. Cell Stem Cell, 2011, 9, 179-181.	11.1	15
87	Dopaminergic neurons modulate GABA neuron migration in the embryonic midbrain. Development (Cambridge), 2012, 139, 3136-3141.	2.5	14
88	Early Postnatal but Not Late Adult Neurogenesis Is Impaired in the Pitx3-Mutant Animal Model of Parkinson's Disease. Frontiers in Neuroscience, 2017, 11, 471.	2.8	14
89	Potent synthetic and endogenous ligands for the adopted orphan nuclear receptor Nurr1. Experimental and Molecular Medicine, 2021, 53, 19-29.	7.7	14
90	Variations in the dopamine ?-hydroxylase gene are not associated with the autonomic disorders, pure autonomic failure, or multiple system atrophy. American Journal of Medical Genetics Part A, 2003, 120A, 234-236.	2.4	13

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91	Promoterless Luciferase Reporter Gene Is Transactivated by Basic Helix-Loop-Helix Transcription Factors. BioTechniques, 2002, 33, 1236-1240.	1.8	12
92	Preclinical Analysis of Fetal Human Mesencephalic Neural Progenitor Cell Lines: Characterization and Safety In Vitro and In Vivo. Stem Cells Translational Medicine, 2017, 6, 576-588.	3.3	11
93	Molecular cloning and characterization of the promoter region of the human Phox2b gene. Molecular Brain Research, 2004, 125, 29-39.	2.3	9
94	The Cellâ€Specific Silencer Region of the Human Dopamine Î²â€Hydroxylase Gene Contains Several Negative Regulatory Elements. Journal of Neurochemistry, 1998, 71, 41-50.	3.9	8
95	Columnar Injection for Intracerebral Cell Therapy. Operative Neurosurgery, 2020, 18, 321-328.	0.8	7
96	Spotting-based differentiation of functional dopaminergic progenitors from human pluripotent stem cells. Nature Protocols, 2022, , .	12.0	6
97	A step closer to autologous cell therapy for Parkinsonâ€™s disease. Cell Stem Cell, 2021, 28, 595-597.	11.1	5
98	Antidepressant effect of stem cell-derived monoaminergic grafts. NeuroReport, 2007, 18, 1663-1667.	1.2	4
99	Toward a Personalized Approach to Parkinson's Cell Therapy. Movement Disorders, 2020, 35, 2119-2120.	3.9	4
100	A Pitx3-deficient developmental mouse model for fine motor, olfactory, and gastrointestinal symptoms of Parkinson's disease. Neurobiology of Disease, 2022, 170, 105777.	4.4	3
101	Development and Differentiation of Autonomic Neurons. , 2012, , 3-8.		2
102	Production of Nurr-1 Specific Polyclonal Antibodies Free of Cross-reactivity Against Its Close Homologs, Nor1 and Nur77. Journal of Visualized Experiments, 2015, , e52963.	0.3	2
103	Commentary: Stem Cell Research Continues in Korea Beyond the Hwang Scandal. Stem Cells, 2007, 25, 1336-1336.	3.2	1
104	Novel function of E26 transformation-specific domain-containing protein ELK3 in lymphatic endothelial cells. Oncology Letters, 2017, 15, 55-60.	1.8	1
105	Letter to the Editor. Cell therapy for Parkinsonâ€™s disease. Journal of Neurosurgery, 2022, 136, 1810-1811.	1.6	1
106	Necessary methodological and stem cell advances for restoration of the dopaminergic system in Parkinson's disease patients. , 2005, , 363-380.		0
107	Induced Pluripotent Stem Cells (iPSCs) to Study and Treat Movement Disorders. , 2015, , 159-170.		0
108	iPSCs and cell therapy for Parkinsonâ€™s disease. , 2021, , 23-47.		0

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109	Current reprogramming methods to generate high-quality iPSCs. , 2021, , 1-36.		0
110	Integrative analysis of mitochondrial metabolic dynamics in reprogramming human fibroblast cells. STAR Protocols, 2022, 3, 101401.	1.2	0