

Kwang-Soo Kim

List of Publications by Year in descending order

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110
papers

10,320
citations

43973

48
h-index

33814

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. <i>Cell Stem Cell</i> , 2009, 4, 472-476.	5.2	1,685
2	Embryonic stem cells develop into functional dopaminergic neurons after transplantation in a Parkinson rat model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2344-2349.	3.3	1,126
3	Hemangioblastic Derivatives from Human Induced Pluripotent Stem Cells Exhibit Limited Expansion and Early Senescence. <i>Stem Cells</i> , 2010, 28, 704-712.	1.4	354
4	Personalized iPSC-Derived Dopamine Progenitor Cells for Parkinson's Disease. <i>New England Journal of Medicine</i> , 2020, 382, 1926-1932.	13.9	298
5	In vitro and in vivo analyses of human embryonic stem cell-derived dopamine neurons. <i>Journal of Neurochemistry</i> , 2005, 92, 1265-1276.	2.1	265
6	A Quantitative-Trait Analysis of Human Plasma Dopamine β -Hydroxylase Activity: Evidence for a Major Functional Polymorphism at the DBH Locus. <i>American Journal of Human Genetics</i> , 2001, 68, 515-522.	2.6	253
7	Essential Role for TRPC5 in Amygdala Function and Fear-Related Behavior. <i>Cell</i> , 2009, 137, 761-772.	13.5	245
8	Impact of Circadian Nuclear Receptor REV-ERB β on Midbrain Dopamine Production and Mood Regulation. <i>Cell</i> , 2014, 157, 858-868.	13.5	242
9	Selective loss of dopaminergic neurons in the substantia nigra of Pitx3-deficient aphakia mice. <i>Molecular Brain Research</i> , 2003, 114, 123-131.	2.5	235
10	Genetic engineering of mouse embryonic stem cells by Nurr1 enhances differentiation and maturation into dopaminergic neurons. <i>European Journal of Neuroscience</i> , 2002, 16, 1829-1838.	1.2	224
11	Inhibition of pluripotent stem cell-derived teratoma formation by small molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3281-90.	3.3	217
12	Protein-based human iPS cells efficiently generate functional dopamine neurons and can treat a rat model of Parkinson disease. <i>Journal of Clinical Investigation</i> , 2011, 121, 2326-2335.	3.9	211
13	Scalable Generation of Universal Platelets from Human Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2014, 3, 817-831.	2.3	195
14	Orphan nuclear receptor Nurr1 directly transactivates the promoter activity of the tyrosine hydroxylase gene in a cell-specific manner. <i>Journal of Neurochemistry</i> , 2003, 85, 622-634.	2.1	186
15	Wnt1-Imx1a Forms a Novel Autoregulatory Loop and Controls Midbrain Dopaminergic Differentiation Synergistically with the SHH-FoxA2 Pathway. <i>Cell Stem Cell</i> , 2009, 5, 646-658.	5.2	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. <i>Journal of Neuroscience</i> , 2005, 25, 2132-2137.	1.7	162
17	A High-Efficiency Synthetic Promoter That Drives Transgene Expression Selectively in Noradrenergic Neurons. <i>Human Gene Therapy</i> , 2001, 12, 1731-1740.	1.4	150
18	Nuclear receptor Nurr1 agonists enhance its dual functions and improve behavioral deficits in an animal model of Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8756-8761.	3.3	147

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19	Analysis of Different Promoter Systems for Efficient Transgene Expression in Mouse Embryonic Stem Cell Lines. <i>Stem Cells</i> , 2002, 20, 139-145.	1.4	140
20	The homeodomain transcription factor Pitx3 facilitates differentiation of mouse embryonic stem cells into AHD2-expressing dopaminergic neurons. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 241-252.	1.0	138
21	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200câ€“SIRT2 axis. <i>Nature Cell Biology</i> , 2017, 19, 445-456.	4.6	138
22	Genetic selection of sox1GFP-expressing neural precursors removes residual tumorigenic pluripotent stem cells and attenuates tumor formation after transplantation. <i>Journal of Neurochemistry</i> , 2006, 97, 1467-1480.	2.1	137
23	Functional Analysis of Various Promoters in Lentiviral Vectors at Different Stages of In Vitro Differentiation of Mouse Embryonic Stem Cells. <i>Molecular Therapy</i> , 2007, 15, 1630-1639.	3.7	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. <i>Stem Cells</i> , 2008, 26, 1526-1536.	1.4	135
25	Paired- <i>Like</i> Homeodomain Proteins, Phox2a and Phox2b, Are Responsible for Noradrenergic Cell-Specific Transcription of the Dopamine β -Hydroxylase Gene. <i>Journal of Neurochemistry</i> , 1998, 71, 1813-1826.	2.1	123
26	Noradrenergic-Specific Transcription of the Dopamine β -Hydroxylase Gene Requires Synergy of Multiple Cis-Acting Elements Including at Least Two Phox2a-Binding Sites. <i>Journal of Neuroscience</i> , 1998, 18, 8247-8260.	1.7	112
27	Human autologous iPSC-derived dopaminergic progenitors restore motor function in Parkinsonâ€™s disease models. <i>Journal of Clinical Investigation</i> , 2020, 130, 904-920.	3.9	102
28	Maternal and early postnatal immune activation produce sex-specific effects on autism-like behaviors and neuroimmune function in mice. <i>Scientific Reports</i> , 2019, 9, 16928.	1.6	98
29	Stromal Cell-Derived Inducing Activity, Nurr1, and Signaling Molecules Synergistically Induce Dopaminergic Neurons from Mouse Embryonic Stem Cells. <i>Stem Cells</i> , 2006, 24, 557-567.	1.4	97
30	A Previously Undescribed Intron and Extensive 5â€™ Upstream Sequence, but Not Phox2a-mediated Transactivation, Are Necessary for High Level Cell Type-specific Expression of the Human Norepinephrine Transporter Gene. <i>Journal of Biological Chemistry</i> , 1999, 274, 6507-6518.	1.6	93
31	Effects of Chronic Social Defeat Stress on Sleep and Circadian Rhythms Are Mitigated by Kappa-Opioid Receptor Antagonism. <i>Journal of Neuroscience</i> , 2017, 37, 7656-7668.	1.7	92
32	The RAB39B p.G192R mutation causes X-linked dominant Parkinsonâ€™s disease. <i>Molecular Neurodegeneration</i> , 2015, 10, 50.	4.4	91
33	Mutations in the dopamine β -hydroxylase gene are associated with human norepinephrine deficiency. <i>American Journal of Medical Genetics Part A</i> , 2002, 108, 140-147.	2.4	88
34	ES cell-derived renewable and functional midbrain dopaminergic progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9703-9708.	3.3	86
35	Pluripotent stem cell-based therapy for Parkinsonâ€™s disease: Current status and future prospects. <i>Progress in Neurobiology</i> , 2018, 168, 1-20.	2.8	84
36	Nurr1 (NR4A2) regulates Alzheimerâ€™s disease-related pathogenesis and cognitive function in the 5XFAD mouse model. <i>Aging Cell</i> , 2019, 18, e12866.	3.0	72

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37	Temporally induced Nurr1 can induce a non-neuronal dopaminergic cell type in embryonic stem cell differentiation. <i>European Journal of Neuroscience</i> , 2004, 19, 1141-1152.	1.2	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. <i>Stem Cells</i> , 2006, 24, 1583-1593.	1.4	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. <i>Journal of Neurochemistry</i> , 2007, 104, 071018045431005-???	2.1	68
40	Regulation of the tyrosine hydroxylase and dopamine β -hydroxylase genes by the transcription factor AP-2. <i>Journal of Neurochemistry</i> , 2009, 76, 280-294.	2.1	68
41	Structure/Function Relationship of the cAMP Response Element in Tyrosine Hydroxylase Gene Transcription. <i>Journal of Biological Chemistry</i> , 1997, 272, 19158-19164.	1.6	67
42	Maternal and Early Postnatal Immune Activation Produce Dissociable Effects on Neurotransmission in mPFC Amygdala Circuits. <i>Journal of Neuroscience</i> , 2018, 38, 3358-3372.	1.7	65
43	Multiple Protein Factors Interact with the cis-Regulatory Elements of the Proximal Promoter in a Cell-Specific Manner and Regulate Transcription of the Dopamine β -Hydroxylase Gene. <i>Journal of Neuroscience</i> , 1996, 16, 4102-4112.	1.7	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. <i>Stem Cells</i> , 2007, 25, 1126-1135.	1.4	59
45	Chronic 3,4-dihydroxyphenylalanine treatment induces dyskinesia in aphakia mice, a novel genetic model of Parkinson's disease. <i>Neurobiology of Disease</i> , 2007, 27, 11-23.	2.1	59
46	Differential actions of the proneural genes encoding Mash1 and neurogenins in Nurr1-induced dopamine neuron differentiation. <i>Journal of Cell Science</i> , 2006, 119, 2310-2320.	1.2	58
47	Induction of unfolded protein response during neuronal induction of rat bone marrow stromal cells and mouse embryonic stem cells. <i>Experimental and Molecular Medicine</i> , 2009, 41, 440.	3.2	54
48	Direct Reprogramming of Rat Neural Precursor Cells and Fibroblasts into Pluripotent Stem Cells. <i>PLoS ONE</i> , 2010, 5, e9838.	1.1	54
49	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. <i>Nature Chemical Biology</i> , 2020, 16, 876-886.	3.9	51
50	Identification and Characterization of Potential cis-Regulatory Elements Governing Transcriptional Activation of the Rat Tyrosine Hydroxylase Gene. <i>Journal of Neurochemistry</i> , 1998, 71, 1358-1368.	2.1	50
51	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 2000, 212, 51-60.	1.4	49
52	Impaired learning and memory in Pitx3 deficient aphakia mice: A genetic model for striatum-dependent cognitive symptoms in Parkinson's disease. <i>Neurobiology of Disease</i> , 2008, 31, 406-412.	2.1	48
53	MiR-126 Regulates Growth Factor Activities and Vulnerability to Toxic Insult in Neurons. <i>Molecular Neurobiology</i> , 2016, 53, 95-108.	1.9	48
54	Vesicular monoamine transporter 2 and dopamine transporter are molecular targets of Pitx3 in the ventral midbrain dopamine neurons. <i>Journal of Neurochemistry</i> , 2009, 111, 1202-1212.	2.1	47

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55	A direct role of the homeodomain proteins Phox2a/2b in noradrenaline neurotransmitter identity determination. <i>Journal of Neurochemistry</i> , 2002, 80, 905-916.	2.1	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. <i>Stem Cells and Development</i> , 2014, 23, 477-487.	1.1	36
57	Functional Gene Variation in the Human Norepinephrine Transporter. <i>Annals of the New York Academy of Sciences</i> , 2008, 1129, 256-260.	1.8	35
58	Regulation of the Noradrenaline Neurotransmitter Phenotype by the Transcription Factor AP-2 β . <i>Journal of Biological Chemistry</i> , 2008, 283, 16860-16867.	1.6	35
59	Expression of the LRRK2 gene in the midbrain dopaminergic neurons of the substantia nigra. <i>Neuroscience Letters</i> , 2008, 442, 190-194.	1.0	34
60	Correlation between orphan nuclear receptor Nurr1 expression and amyloid deposition in 5XFAD mice, an animal model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2015, 132, 254-262.	2.1	34
61	Regulation of tyrosine hydroxylase gene expression by retinoic acid receptor. <i>Journal of Neurochemistry</i> , 2006, 98, 386-394.	2.1	32
62	Daphnane Diterpenes from <i>Daphne genkwa</i> Activate Nurr1 and Have a Neuroprotective Effect in an Animal Model of Parkinson's Disease. <i>Journal of Natural Products</i> , 2016, 79, 1604-1609.	1.5	32
63	Regulation of the tyrosine hydroxylase gene promoter by histone deacetylase inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 950-957.	1.0	30
64	Transcription Elongation Factor Tcea3 Regulates the Pluripotent Differentiation Potential of Mouse Embryonic Stem Cells Via the Lefty1-Nodal-Smad2 Pathway. <i>Stem Cells</i> , 2013, 31, 282-292.	1.4	30
65	LRRK2 interferes with aggresome formation for autophagic clearance. <i>Molecular and Cellular Neurosciences</i> , 2016, 75, 71-80.	1.0	30
66	Chloroquine modulates inflammatory autoimmune responses through Nurr1 in autoimmune diseases. <i>Scientific Reports</i> , 2019, 9, 15559.	1.6	29
67	GATA-3 regulates the transcriptional activity of tyrosine hydroxylase by interacting with CREB. <i>Journal of Neurochemistry</i> , 2006, 98, 773-781.	2.1	28
68	Transcription Factor GATA-3 Regulates the Transcriptional Activity of Dopamine β -Hydroxylase by Interacting with Sp1 and AP4. <i>Neurochemical Research</i> , 2008, 33, 1821-1831.	1.6	28
69	SIRT2 regulates mitochondrial dynamics and reprogramming via MEK1-ERK-DRP1 and AKT1-DRP1 axes. <i>Cell Reports</i> , 2021, 37, 110155.	2.9	28
70	Norepinephrine Deficiency Is Caused by Combined Abnormal mRNA Processing and Defective Protein Trafficking of Dopamine β -Hydroxylase. <i>Journal of Biological Chemistry</i> , 2011, 286, 9196-9204.	1.6	25
71	Stem Cell Grafting Improves Both Motor and Cognitive Impairments in a Genetic Model of Parkinson's Disease, the Aphakia (APK) Mouse. <i>Cell Transplantation</i> , 2013, 22, 1263-1279.	1.2	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. <i>Journal of Neuroscience</i> , 2002, 22, 2579-2589.	1.7	23

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73	Structural and functional characterization of the 5â€™ upstream promoter of the human Phox2a gene: possible direct transactivation by transcription factor Phox2b. <i>Journal of Neurochemistry</i> , 2002, 79, 1225-1236.	2.1	21
74	Association studies of âˆ³3081(A/T) polymorphism of norepinephrine transporter gene with attention deficit/hyperactivity disorder in Korean population. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2010, 153B, 691-694.	1.1	21
75	Increased Genomic Integrity of an Improved Protein-Based Mouse Induced Pluripotent Stem Cell Method Compared With Current Viral-Induced Strategies. <i>Stem Cells Translational Medicine</i> , 2014, 3, 599-609.	1.6	21
76	Trim11 increases expression of dopamine Î²-hydroxylase gene by interacting with Phox2b. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 650-655.	1.0	20
77	Molecular and Functional Analyses of Motor Neurons Generated from Human Cord-Blood-Derived Induced Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2014, 23, 3011-3020.	1.1	20
78	Regional Reductions of Transketolase in Thiamine-Deficient Rat Brain. <i>Journal of Neurochemistry</i> , 2002, 67, 684-691.	2.1	19
79	Gene transfer in the nervous system and implications for transsynaptic neuronal tracing. <i>Expert Opinion on Biological Therapy</i> , 2010, 10, 763-772.	1.4	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. <i>Journal of Neurochemistry</i> , 2005, 94, 828-838.	2.1	18
81	Pitx3 deficient mice as a genetic animal model of co-morbid depressive disorder and parkinsonism. <i>Brain Research</i> , 2014, 1552, 72-81.	1.1	18
82	4-amino-7-chloroquinoline derivatives for treating Parkinsonâ€™s disease: implications for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 337-341.	2.5	18
83	Toward neuroprotective treatments of Parkinsonâ€™s disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3795-3797.	3.3	18
84	Induced pluripotent stem (iPS) cells and their future in psychiatry. <i>Neuropsychopharmacology</i> , 2010, 35, 346-348.	2.8	15
85	Transcription factor AP-2Î² regulates the neurotransmitter phenotype and maturation of chromaffin cells. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 245-251.	1.0	15
86	Converting Human Skin Cells to Neurons: A New Tool to Study and Treat Brain Disorders?. <i>Cell Stem Cell</i> , 2011, 9, 179-181.	5.2	15
87	Dopaminergic neurons modulate GABA neuron migration in the embryonic midbrain. <i>Development (Cambridge)</i> , 2012, 139, 3136-3141.	1.2	14
88	Early Postnatal but Not Late Adult Neurogenesis Is Impaired in the Pitx3-Mutant Animal Model of Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2017, 11, 471.	1.4	14
89	Potent synthetic and endogenous ligands for the adopted orphan nuclear receptor Nurr1. <i>Experimental and Molecular Medicine</i> , 2021, 53, 19-29.	3.2	14
90	Variations in the dopamine Î²-hydroxylase gene are not associated with the autonomic disorders, pure autonomic failure, or multiple system atrophy. <i>American Journal of Medical Genetics Part A</i> , 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. <i>BioTechniques</i> , 2002, 33, 1236-1240.	0.8	12
92	Preclinical Analysis of Fetal Human Mesencephalic Neural Progenitor Cell Lines: Characterization and Safety In Vitro and In Vivo. <i>Stem Cells Translational Medicine</i> , 2017, 6, 576-588.	1.6	11
93	Molecular cloning and characterization of the promoter region of the human Phox2b gene. <i>Molecular Brain Research</i> , 2004, 125, 29-39.	2.5	9
94	The Cell-Specific Silencer Region of the Human Dopamine β -Hydroxylase Gene Contains Several Negative Regulatory Elements. <i>Journal of Neurochemistry</i> , 1998, 71, 41-50.	2.1	8
95	Columnar Injection for Intracerebral Cell Therapy. <i>Operative Neurosurgery</i> , 2020, 18, 321-328.	0.4	7
96	Spotting-based differentiation of functional dopaminergic progenitors from human pluripotent stem cells. <i>Nature Protocols</i> , 2022, , .	5.5	6
97	A step closer to autologous cell therapy for Parkinson's disease. <i>Cell Stem Cell</i> , 2021, 28, 595-597.	5.2	5
98	Antidepressant effect of stem cell-derived monoaminergic grafts. <i>NeuroReport</i> , 2007, 18, 1663-1667.	0.6	4
99	Toward a Personalized Approach to Parkinson's Cell Therapy. <i>Movement Disorders</i> , 2020, 35, 2119-2120.	2.2	4
100	A Pitx3-deficient developmental mouse model for fine motor, olfactory, and gastrointestinal symptoms of Parkinson's disease. <i>Neurobiology of Disease</i> , 2022, 170, 105777.	2.1	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. <i>Journal of Visualized Experiments</i> , 2015, , e52963.	0.2	2
103	Commentary: Stem Cell Research Continues in Korea Beyond the Hwang Scandal. <i>Stem Cells</i> , 2007, 25, 1336-1336.	1.4	1
104	Novel function of E26 transformation-specific domain-containing protein ELK3 in lymphatic endothelial cells. <i>Oncology Letters</i> , 2017, 15, 55-60.	0.8	1
105	Letter to the Editor. Cell therapy for Parkinson's disease. <i>Journal of Neurosurgery</i> , 2022, 136, 1810-1811.	0.9	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 Parkinson'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.	0.5	0