

# Kwang-Soo Kim

## List of Publications by Citations

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109 papers	8,619 citations	46 h-index	92 g-index
111 ext. papers	9,581 ext. citations	8.5 avg, IF	5.4 L-index

#	Paper	IF	Citations
109	Generation of human induced pluripotent stem cells by direct delivery of reprogramming proteins. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 472-6	18	1506
108	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> , <b>2002</b> , 99, 2344-9	11.5	1000
107	Hemangioblastic derivatives from human induced pluripotent stem cells exhibit limited expansion and early senescence. <i>Stem Cells</i> , <b>2010</b> , 28, 704-12	5.8	320
106	In vitro and in vivo analyses of human embryonic stem cell-derived dopamine neurons. <i>Journal of Neurochemistry</i> , <b>2005</b> , 92, 1265-76	6	246
105	A quantitative-trait analysis of human plasma-dopamine beta-hydroxylase activity: evidence for a major functional polymorphism at the DBH locus. <i>American Journal of Human Genetics</i> , <b>2001</b> , 68, 515-22	11	231
104	Essential role for TRPC5 in amygdala function and fear-related behavior. <i>Cell</i> , <b>2009</b> , 137, 761-72	56.2	202
103	Genetic engineering of mouse embryonic stem cells by Nurr1 enhances differentiation and maturation into dopaminergic neurons. <i>European Journal of Neuroscience</i> , <b>2002</b> , 16, 1829-38	3.5	199
102	Selective loss of dopaminergic neurons in the substantia nigra of Pitx3-deficient aphakia mice. <i>Molecular Brain Research</i> , <b>2003</b> , 114, 123-31		199
101	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> , <b>2011</b> , 121, 2326-35	15.9	186
100	Impact of circadian nuclear receptor REV-ERB $\alpha$ on midbrain dopamine production and mood regulation. <i>Cell</i> , <b>2014</b> , 157, 858-68	56.2	183
99	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> , <b>2013</b> , 110, E3281-90	11.5	173
98	Orphan nuclear receptor Nurr1 directly transactivates the promoter activity of the tyrosine hydroxylase gene in a cell-specific manner. <i>Journal of Neurochemistry</i> , <b>2003</b> , 85, 622-34	6	162
97	Scalable generation of universal platelets from human induced pluripotent stem cells. <i>Stem Cell Reports</i> , <b>2014</b> , 3, 817-31	8	158
96	Wnt1-lmx1a forms a novel autoregulatory loop and controls midbrain dopaminergic differentiation synergistically with the SHH-FoxA2 pathway. <i>Cell Stem Cell</i> , <b>2009</b> , 5, 646-58	18	147
95	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> , <b>2005</b> , 25, 2132-7	6.6	146
94	Personalized iPSC-Derived Dopamine Progenitor Cells for Parkinson's Disease. <i>New England Journal of Medicine</i> , <b>2020</b> , 382, 1926-1932	59.2	141
93	Analysis of different promoter systems for efficient transgene expression in mouse embryonic stem cell lines. <i>Stem Cells</i> , <b>2002</b> , 20, 139-45	5.8	127

92	Genetic selection of sox1GFP-expressing neural precursors removes residual tumorigenic pluripotent stem cells and attenuates tumor formation after transplantation. <i>Journal of Neurochemistry</i> , <b>2006</b> , 97, 1467-80	6	124
91	The homeodomain transcription factor Pitx3 facilitates differentiation of mouse embryonic stem cells into AHD2-expressing dopaminergic neurons. <i>Molecular and Cellular Neurosciences</i> , <b>2005</b> , 28, 241-52	4.8	122
90	A high-efficiency synthetic promoter that drives transgene expression selectively in noradrenergic neurons. <i>Human Gene Therapy</i> , <b>2001</b> , 12, 1731-40	4.8	122
89	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> , <b>2008</b> , 26, 1526-36	5.8	118
88	Functional analysis of various promoters in lentiviral vectors at different stages of in vitro differentiation of mouse embryonic stem cells. <i>Molecular Therapy</i> , <b>2007</b> , 15, 1630-9	11.7	114
87	Paired-like homeodomain proteins, Phox2a and Phox2b, are responsible for noradrenergic cell-specific transcription of the dopamine beta-hydroxylase gene. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 1813-26	6	114
86	Noradrenergic-specific transcription of the dopamine beta-hydroxylase gene requires synergy of multiple cis-acting elements including at least two Phox2a-binding sites. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 8247-60	6.6	110
85	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> , <b>2015</b> , 112, 8756-61	11.5	103
84	Stromal cell-derived inducing activity, Nurr1, and signaling molecules synergistically induce dopaminergic neurons from mouse embryonic stem cells. <i>Stem Cells</i> , <b>2006</b> , 24, 557-67	5.8	91
83	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200c-SIRT2 axis. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 445-456	23.4	90
82	A previously undescribed intron and extensive 5' 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> , <b>1999</b> , 274, 6507-18	5.4	85
81	Mutations in the dopamine beta-hydroxylase gene are associated with human norepinephrine deficiency. <i>American Journal of Medical Genetics Part A</i> , <b>2002</b> , 108, 140-147		76
80	ES cell-derived renewable and functional midbrain dopaminergic progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9703-8	11.5	73
79	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> , <b>2006</b> , 24, 1583-93	5.8	63
78	Temporally induced Nurr1 can induce a non-neuronal dopaminergic cell type in embryonic stem cell differentiation. <i>European Journal of Neuroscience</i> , <b>2004</b> , 19, 1141-52	3.5	62
77	The RAB39B p.G192R mutation causes X-linked dominant Parkinson's disease. <i>Molecular Neurodegeneration</i> , <b>2015</b> , 10, 50	19	60
76	Regulation of the tyrosine hydroxylase and dopamine beta-hydroxylase genes by the transcription factor AP-2. <i>Journal of Neurochemistry</i> , <b>2001</b> , 76, 280-94	6	60
75	Multiple protein factors interact with the cis-regulatory elements of the proximal promoter in a cell-specific manner and regulate transcription of the dopamine beta-hydroxylase gene. <i>Journal of Neuroscience</i> , <b>1996</b> , 16, 4102-12	6.6	59

74	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> , <b>2008</b> , 104, 316-24	6	58
73	Structure/function relationship of the cAMP response element in tyrosine hydroxylase gene transcription. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 19158-64	5.4	55
72	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> , <b>2007</b> , 25, 1126-35	5.8	55
71	Human autologous iPSC-derived dopaminergic progenitors restore motor function in Parkinson's disease models. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 904-920	15.9	55
70	Chronic 3,4-dihydroxyphenylalanine treatment induces dyskinesia in aphakia mice, a novel genetic model of Parkinson's disease. <i>Neurobiology of Disease</i> , <b>2007</b> , 27, 11-23	7.5	54
69	Effects of Chronic Social Defeat Stress on Sleep and Circadian Rhythms Are Mitigated by Kappa-Opioid Receptor Antagonism. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 7656-7668	6.6	53
68	Differential actions of the proneural genes encoding Mash1 and neurogenins in Nurr1-induced dopamine neuron differentiation. <i>Journal of Cell Science</i> , <b>2006</b> , 119, 2310-20	5.3	53
67	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> , <b>2009</b> , 41, 440-52	12.8	48
66	Identification and characterization of potential cis-regulatory elements governing transcriptional activation of the rat tyrosine hydroxylase gene. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 1358-68	6	48
65	Pluripotent stem cell-based therapy for Parkinson's disease: Current status and future prospects. <i>Progress in Neurobiology</i> , <b>2018</b> , 168, 1-20	10.9	47
64	Direct reprogramming of rat neural precursor cells and fibroblasts into pluripotent stem cells. <i>PLoS ONE</i> , <b>2010</b> , 5, e9838	3.7	47
63	Maternal and early postnatal immune activation produce sex-specific effects on autism-like behaviors and neuroimmune function in mice. <i>Scientific Reports</i> , <b>2019</b> , 9, 16928	4.9	44
62	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> , <b>2008</b> , 31, 406-12	7.5	44
61	Regulation of tyrosine hydroxylase gene transcription by the cAMP-signalling pathway: Involvement of multiple transcription factors. <i>Molecular and Cellular Biochemistry</i> , <b>2000</b> , 212, 51-60	4.2	44
60	Maternal and Early Postnatal Immune Activation Produce Dissociable Effects on Neurotransmission in mPFC-Amygdala Circuits. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 3358-3372	6.6	40
59	A direct role of the homeodomain proteins Phox2a/2b in noradrenaline neurotransmitter identity determination. <i>Journal of Neurochemistry</i> , <b>2002</b> , 80, 905-16	6	38
58	MiR-126 Regulates Growth Factor Activities and Vulnerability to Toxic Insult in Neurons. <i>Molecular Neurobiology</i> , <b>2016</b> , 53, 95-108	6.2	36
57	Nurr1 (NR4A2) regulates Alzheimer's disease-related pathogenesis and cognitive function in the 5XFAD mouse model. <i>Aging Cell</i> , <b>2019</b> , 18, e12866	9.9	36

56	Vesicular monoamine transporter 2 and dopamine transporter are molecular targets of Pitx3 in the ventral midbrain dopamine neurons. <i>Journal of Neurochemistry</i> , <b>2009</b> , 111, 1202-12	6	35
55	Expression of the LRRK2 gene in the midbrain dopaminergic neurons of the substantia nigra. <i>Neuroscience Letters</i> , <b>2008</b> , 442, 190-4	3.3	32
54	Functional gene variation in the human norepinephrine transporter: association with attention deficit hyperactivity disorder. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1129, 256-60	6.5	32
53	Regulation of tyrosine hydroxylase gene expression by retinoic acid receptor. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 386-94	6	30
52	Regulation of the tyrosine hydroxylase gene promoter by histone deacetylase inhibitors. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 312, 950-7	3.4	30
51	Regulation of the noradrenaline neurotransmitter phenotype by the transcription factor AP-2beta. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 16860-7	5.4	29
50	GATA-3 regulates the transcriptional activity of tyrosine hydroxylase by interacting with CREB. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 773-81	6	27
49	Transcription factor GATA-3 regulates the transcriptional activity of dopamine beta-hydroxylase by interacting with Sp1 and AP4. <i>Neurochemical Research</i> , <b>2008</b> , 33, 1821-31	4.6	26
48	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> , <b>2015</b> , 132, 254-62	6	25
47	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> , <b>2014</b> , 23, 477-87	4.4	25
46	Daphnane Diterpenes from Daphne genkwa Activate Nurr1 and Have a Neuroprotective Effect in an Animal Model of Parkinson's Disease. <i>Journal of Natural Products</i> , <b>2016</b> , 79, 1604-9	4.9	25
45	Transcription elongation factor Tcea3 regulates the pluripotent differentiation potential of mouse embryonic stem cells via the Lefty1-Nodal-Smad2 pathway. <i>Stem Cells</i> , <b>2013</b> , 31, 282-92	5.8	24
44	PGE1 and PGA1 bind to Nurr1 and activate its transcriptional function. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 876-886	11.7	23
43	LRRK2 interferes with aggresome formation for autophagic clearance. <i>Molecular and Cellular Neurosciences</i> , <b>2016</b> , 75, 71-80	4.8	23
42	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> , <b>2002</b> , 22, 2579-89	6.6	22
41	Stem cell grafting improves both motor and cognitive impairments in a genetic model of Parkinson's disease, the aphakia (ak) mouse. <i>Cell Transplantation</i> , <b>2013</b> , 22, 1263-79	4	21
40	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> , <b>2014</b> , 3, 599-609	6.9	20
39	Norepinephrine deficiency is caused by combined abnormal mRNA processing and defective protein trafficking of dopamine beta-hydroxylase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 9196-204	5.4	19

38	Gene transfer in the nervous system and implications for transsynaptic neuronal tracing. <i>Expert Opinion on Biological Therapy</i> , <b>2010</b> , 10, 763-72	5.4	18
37	Association studies of -3081(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> , <b>2010</b> , 153B, 691-694	3.5	18
36	Trim11 increases expression of dopamine beta-hydroxylase gene by interacting with Phox2b. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 368, 650-5	3.4	18
35	Structural and functional characterization of the 5' upstream promoter of the human Phox2a gene: possible direct transactivation by transcription factor Phox2b. <i>Journal of Neurochemistry</i> , <b>2001</b> , 79, 1225-36	6	18
34	Chloroquine modulates inflammatory autoimmune responses through Nurr1 in autoimmune diseases. <i>Scientific Reports</i> , <b>2019</b> , 9, 15559	4.9	18
33	Molecular and functional analyses of motor neurons generated from human cord-blood-derived induced pluripotent stem cells. <i>Stem Cells and Development</i> , <b>2014</b> , 23, 3011-20	4.4	17
32	Regional reductions of transketolase in thiamine-deficient rat brain. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 684-91	6	17
31	Age-associated changes in mRNA levels of Phox2, norepinephrine transporter and dopamine beta-hydroxylase in the locus coeruleus and adrenal glands of rats. <i>Journal of Neurochemistry</i> , <b>2005</b> , 94, 828-38	6	16
30	Pitx3 deficient mice as a genetic animal model of co-morbid depressive disorder and parkinsonism. <i>Brain Research</i> , <b>2014</b> , 1552, 72-81	3.7	15
29	Converting human skin cells to neurons: a new tool to study and treat brain disorders?. <i>Cell Stem Cell</i> , <b>2011</b> , 9, 179-81	18	14
28	Toward neuroprotective treatments of Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3795-3797	11.5	13
27	Dopaminergic neurons modulate GABA neuron migration in the embryonic midbrain. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 3136-41	6.6	13
26	Induced pluripotent stem (iPS) cells and their future in psychiatry. <i>Neuropsychopharmacology</i> , <b>2010</b> , 35, 346-8	8.7	13
25	Transcription factor AP-2 $\beta$ regulates the neurotransmitter phenotype and maturation of chromaffin cells. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 46, 245-51	4.8	12
24	Early Postnatal but Not Late Adult Neurogenesis Is Impaired in the Pitx3-Mutant Animal Model of Parkinson's Disease. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 471	5.1	11
23	Promoterless luciferase reporter gene is transactivated by basic helix-loop-helix transcription factors. <i>BioTechniques</i> , <b>2002</b> , 33, 1236-8, 1240	2.5	11
22	Variations in the dopamine beta-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> , <b>2003</b> , 120A, 234-6		11
21	Molecular cloning and characterization of the promoter region of the human Phox2b gene. <i>Molecular Brain Research</i> , <b>2004</b> , 125, 29-39		9



20	Preclinical Analysis of Fetal Human Mesencephalic Neural Progenitor Cell Lines: Characterization and Safety In Vitro and In Vivo. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 576-588	6.9	8
19	The cell-specific silencer region of the human dopamine beta-hydroxylase gene contains several negative regulatory elements. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 41-50	6	8
18	Potent synthetic and endogenous ligands for the adopted orphan nuclear receptor Nurr1. <i>Experimental and Molecular Medicine</i> , <b>2021</b> , 53, 19-29	12.8	8
17	Columnar Injection for Intracerebral Cell Therapy. <i>Operative Neurosurgery</i> , <b>2020</b> , 18, 321-328	1.6	5
16	SIRT2 regulates mitochondrial dynamics and reprogramming via MEK1-ERK-DRP1 and AKT1-DRP1 axes.. <i>Cell Reports</i> , <b>2021</b> , 37, 110155	10.6	5
15	Antidepressant effect of stem cell-derived monoaminergic grafts. <i>NeuroReport</i> , <b>2007</b> , 18, 1663-7	1.7	3
14	Spotting-based differentiation of functional dopaminergic progenitors from human pluripotent stem cells.. <i>Nature Protocols</i> , <b>2022</b> ,	18.8	3
13	Toward a Personalized Approach to Parkinson's Cell Therapy. <i>Movement Disorders</i> , <b>2020</b> , 35, 2119-2120	7	3
12	Production of Nurr-1 Specific Polyclonal Antibodies Free of Cross-reactivity Against Its Close Homologs, Nor1 and Nur77. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e52963	1.6	2
11	Development and Differentiation of Autonomic Neurons <b>2012</b> , 3-8		1
10	Commentary: stem cell research continues in Korea beyond the Hwang scandal. <i>Stem Cells</i> , <b>2007</b> , 25, 1336	5.8	1
9	A Pitx3-deficient developmental mouse model for fine motor, olfactory, and gastrointestinal symptoms of Parkinson's disease. <i>Neurobiology of Disease</i> , <b>2022</b> , 170, 105777	7.5	1
8	Letter to the Editor. Cell therapy for Parkinson's disease.. <i>Journal of Neurosurgery</i> , <b>2022</b> , 1-2	3.2	0
7	A step closer to autologous cell therapy for Parkinson's disease. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 595-597	18	0
6	Induced Pluripotent Stem Cells (iPSCs) to Study and Treat Movement Disorders <b>2015</b> , 159-170		
5	Novel function of E26 transformation-specific domain-containing protein ELK3 in lymphatic endothelial cells. <i>Oncology Letters</i> , <b>2018</b> , 15, 55-60	2.6	
4	Necessary methodological and stem cell advances for restoration of the dopaminergic system in Parkinson's disease patients <b>2005</b> , 363-380		
3	iPSCs and cell therapy for Parkinson's disease <b>2021</b> , 23-47		

## 2 Current reprogramming methods to generate high-quality iPSCs **2021**, 1-36

- 1 Integrative analysis of mitochondrial metabolic dynamics in reprogramming human fibroblast cells.  
*STAR Protocols*, **2022**, 3, 101401 1.4