Kyung-Sun Kang

List of Publications by Citations

104 papers	2,521 citations	27 h-index	46 g-index
106 ext. papers	3,159 ext. citations	5.4 avg, IF	5.13 L-index

#	Paper	IF	Citations
104	Human umbilical cord blood mesenchymal stem cells reduce colitis in mice by activating NOD2 signaling to COX2. *Gastroenterology*, **2013**, 145, 1392-403.e1-8	13.3	131
103	Decreased sperm number and motile activity on the F1 offspring maternally exposed to butyl p-hydroxybenzoic acid (butyl paraben). *Journal of Veterinary Medical Science*, **2002**, 64, 227-35	1.1	124
102	Functional recovery and neural differentiation after transplantation of allogenic adipose-derived stem cells in a canine model of acute spinal cord injury. *Journal of Veterinary Science*, **2009**, 10, 273-84	1.6	121
101	Human umbilical cord blood mesenchymal stem cell-derived PGE2 and TGF-β1 alleviate atopic dermatitis by reducing mast cell degranulation. *Stem Cells*, **2015**, 33, 1254-66	5.8	106
100	Biocompatibility evaluation of tissue-engineered decellularized scaffolds for biomedical application. *Materials Science and Engineering C*, **2016**, 67, 766-778	8.3	102
99	Human umbilical cord blood-stem cells direct macrophage polarization and block inflammasome activation to alleviate rheumatoid arthritis. *Cell Death and Disease*, **2016**, 7, e2524	9.8	100
98	Rapid and Efficient Direct Conversion of Human Adult Somatic Cells into Neural Stem Cells by HMGA2/let-7b. *Cell Reports*, **2015**, 10, 441-452	10.6	90
97	Exosomes derived from human umbilical cord blood mesenchymal stem cells stimulates rejuvenation of human skin. *Biochemical and Biophysical Research Communications*, **2017**, 493, 1102-1108	3.4	72
96	Stem cells in toxicology: fundamental biology and practical considerations. *Toxicological Sciences*, **2011**, 120 Suppl 1, S269-89	4.4	71
95	Clinical Trial of Human Umbilical Cord Blood-Derived Stem Cells for the Treatment of Moderate-to-Severe Atopic Dermatitis: Phase I/IIa Studies. *Stem Cells*, **2017**, 35, 248-255	5.8	61
94	Umbilical-cord-blood-derived mesenchymal stem cells seeded onto fibronectin-immobilized polycaprolactone nanofiber improve cardiac function. *Acta Biomaterialia*, **2014**, 10, 3007-17	10.8	61
93	Heparin-gelatin mixture improves vascular reconstruction efficiency and hepatic function in bioengineered livers. *Acta Biomaterialia*, **2016**, 38, 82-93	10.8	60
92	Mesenchymal stem cells and cancer: friends or enemies?. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2014**, 768, 98-106	3.3	56
91	Human umbilical cord blood-derived mesenchymal stem cells protect against neuronal cell death and ameliorate motor deficits in Niemann Pick type C1 mice. *Cell Transplantation*, **2011**, 20, 1033-47	4	48
90	Implantation of canine umbilical cord blood-derived mesenchymal stem cells mixed with beta-tricalcium phosphate enhances osteogenesis in bone defect model dogs. *Journal of Veterinary Science*, **2008**, 9, 387-93	1.6	48
89	Reactive Oxygen Species in Mesenchymal Stem Cell Aging: Implication to Lung Diseases. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 486263	6.7	46
88	Mesenchymal Stem Cell Therapy for Inflammatory Skin Diseases: Clinical Potential and Mode of Action. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	44

87	DI-(2-ethylhexyl) phthalate-induced cell proliferation is involved in the inhibition of gap junctional intercellular communication and blockage of apoptosis in mouse Sertoli cells. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2002**, 65, 447-59	3.2	44
86	PGE2 maintains self-renewal of human adult stem cells via EP2-mediated autocrine signaling and its production is regulated by cell-to-cell contact. *Scientific Reports*, **2016**, 6, 26298	4.9	44
85	A p38 MAPK-mediated alteration of COX-2/PGE2 regulates immunomodulatory properties in human mesenchymal stem cell aging. *PLoS ONE*, **2014**, 9, e102426	3.7	43
84	Graphene quantum dots as anti-inflammatory therapy for colitis. *Science Advances*, **2020**, 6, eaaz2630	14.3	42
83	Effects of Human Mesenchymal Stem Cells Transduced with Superoxide Dismutase on Imiquimod-Induced Psoriasis-Like Skin Inflammation in Mice. *Antioxidants and Redox Signaling*, **2016** , 24, 233-48	8.4	39
82	Inducible HGF-secreting Human Umbilical Cord Blood-derived MSCs Produced via TALEN-mediated Genome Editing Promoted Angiogenesis. *Molecular Therapy*, **2016**, 24, 1644-54	11.7	37
81	Donor-dependent variation of human umbilical cord blood mesenchymal stem cells in response to hypoxic preconditioning and amelioration of limb ischemia. *Experimental and Molecular Medicine*, **2018**, 50, 1-15	12.8	36
80	Human adipose tissue-derived mesenchymal stem cells alleviate atopic dermatitis via regulation of B lymphocyte maturation. *Oncotarget*, **2017**, 8, 512-522	3.3	35
79	Biocompatibility and hemocompatibility of efficiently decellularized whole porcine kidney for tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2034-2047	5.4	28
78	Growth arrest and forced differentiation of human primary glioblastoma multiforme by a novel small molecule. *Scientific Reports*, **2014**, 4, 5546	4.9	26
77	Dihydroceramide is a key metabolite that regulates autophagy and promotes fibrosis in hepatic steatosis model. *Biochemical and Biophysical Research Communications*, **2017**, 494, 460-469	3.4	25
76	DNA methyltransferase inhibition accelerates the immunomodulation and migration of human mesenchymal stem cells. *Scientific Reports*, **2015**, 5, 8020	4.9	25
75	miRNAs in stem cell aging and age-related disease. *Mechanisms of Ageing and Development*, **2017**, 168, 20-29	5.6	24
74	Enhanced therapeutic effects of human mesenchymal stem cells transduced with superoxide dismutase 3 in a murine atopic dermatitis-like skin inflammation model. *Allergy: European Journal of Allergy and Clinical Immunology*, **2018**, 73, 2364-2376	9.3	22
73	Conditioned media from human umbilical cord blood-derived mesenchymal stem cells stimulate rejuvenation function in human skin. *Biochemistry and Biophysics Reports*, **2018**, 16, 96-102	2.2	22
72	Human umbilical cord blood-derived mesenchymal stem cells ameliorate psoriasis-like skin inflammation in mice. *Biochemistry and Biophysics Reports*, **2017**, 9, 281-288	2.2	21
71	BMI1 inhibits senescence and enhances the immunomodulatory properties of human mesenchymal stem cells via the direct suppression of MKP-1/DUSP1. *Aging*, **2016**, 8, 1670-89	5.6	20
70	Functional enhancement strategies for immunomodulation of mesenchymal stem cells and their therapeutic application. *Stem Cell Research and Therapy*, **2020**, 11, 397	8.3	20

69	Cathepsin S contributes to microglia-mediated olfactory dysfunction through the regulation of Cx3cl1-Cx3cr1 axis in a Niemann-Pick disease type C1 model. *Glia*, **2016**, 64, 2291-2305	9	20
68	Silver nanoparticles improve structural stability and biocompatibility of decellularized porcine liver. *Artificial Cells, Nanomedicine and Biotechnology*, **2018**, 46, 273-284	6.1	19
67	Generation of patient specific human neural stem cells from Niemann-Pick disease type C patient-derived fibroblasts. *Oncotarget*, **2017**, 8, 85428-85441	3.3	19
66	Excessive microglial activation aggravates olfactory dysfunction by impeding the survival of newborn neurons in the olfactory bulb of Niemann-Pick disease type C1 mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 2193-203	6.9	18
65	GATA4-dependent regulation of the secretory phenotype via MCP-1 underlies lamin A-mediated human mesenchymal stem cell aging. *Experimental and Molecular Medicine*, **2018**, 50, 1-12	12.8	18
64	Single-Factor SOX2 Mediates Direct Neural Reprogramming of Human Mesenchymal Stem Cells via Transfection of In Vitro Transcribed mRNA. *Cell Transplantation*, **2018**, 27, 1154-1167	4	17
63	Micro and ultrastructural changes monitoring during decellularization for the generation of a biocompatible liver. *Journal of Bioscience and Bioengineering*, **2019**, 128, 218-225	3.3	16
62	Disease-specific primed human adult stem cells effectively ameliorate experimental atopic dermatitis in mice. *Theranostics*, **2019**, 9, 3608-3621	12.1	15
61	TGF-β secreted by human umbilical cord blood-derived mesenchymal stem cells ameliorates atopic dermatitis by inhibiting secretion of TNF-α and IgE. *Stem Cells*, **2020**, 38, 904-916	5.8	15
60	Preconditioning with interleukin-1 beta and interferon-gamma enhances the efficacy of human umbilical cord blood-derived mesenchymal stem cells-based therapy via enhancing prostaglandin E2 secretion and indoleamine 2,3-dioxygenase activity in dextran sulfate sodium-induced colitis. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 1792-1804	4.4	15
59	Mesenchymal Stem Cells Contribute to Improvement of Renal Function in a Canine Kidney Injury Model. *In Vivo*, **2017**, 31, 1115-1124	2.3	15
58	Ephedrine-induced mitophagy via oxidative stress in human hepatic stellate cells. *Journal of Toxicological Sciences*, **2017**, 42, 461-473	1.9	14
57	Transplantation of hMSCs Genome Edited with LEF1 Improves Cardio-Protective Effects in Myocardial Infarction. *Molecular Therapy - Nucleic Acids*, **2020**, 19, 1186-1197	10.7	13
56	Transgenerational effects of paternal alcohol exposure in mouse offspring. *Animal Cells and Systems*, **2013**, 17, 429-434	2.3	13
55	Therapeutic effect of long-interval repeated intravenous administration of human umbilical cord blood-derived mesenchymal stem cells in DBA/1 mice with collagen-induced arthritis. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 1134-1142	4.4	12
54	MIS416 Enhances Therapeutic Functions of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells Against Experimental Colitis by Modulating Systemic Immune Milieu. *Frontiers in Immunology*, **2018**, 9, 1078	8.4	12
53	Reprogramming Enhancers in Somatic Cell Nuclear Transfer, iPSC Technology, and Direct Conversion. *Stem Cell Reviews and Reports*, **2017**, 13, 24-34	6.4	12
52	Inhibition by miR-410 facilitates direct retinal pigment epithelium differentiation of umbilical cord blood-derived mesenchymal stem cells. *Journal of Veterinary Science*, **2017**, 18, 59-65	1.6	12

51	Development of highly functional bioengineered human liver with perfusable vasculature. *Biomaterials*, **2021**, 265, 120417	15.6	12
50	Human iNSC-derived brain organoid model of lysosomal storage disorder in Niemann-Pick disease type C. *Cell Death and Disease*, **2020**, 11, 1059	9.8	11
49	Early Results of Clinical Application of Autologous Whole Bone Marrow Stem Cell Transplantation for Critical Limb Ischemia with Buerger's Disease. *Scientific Reports*, **2016**, 6, 19690	4.9	11
48	Mica Nanoparticle, STB-HO Eliminates the Human Breast Carcinoma Cells by Regulating the Interaction of Tumor with its Immune Microenvironment. *Scientific Reports*, **2015**, 5, 17515	4.9	11
47	Impairment of male rat reproductive function in F1 offspring from dams exposed to 2-bromopropane during gestation and lactation. *Reproductive Toxicology*, **2002**, 16, 151-9	3.4	11
46	Immunologic properties of differentiated and undifferentiated mesenchymal stem cells derived from umbilical cord blood. *Journal of Veterinary Science*, **2016**, 17, 289-97	1.6	11
45	Protein profiling and angiogenic effect of hypoxia-cultured human umbilical cord blood-derived mesenchymal stem cells in hindlimb ischemia. *Tissue and Cell*, **2017**, 49, 680-690	2.7	10
44	Characterization of silver nanoparticle-modified decellularized rat esophagus for esophageal tissue engineering: Structural properties and biocompatibility. *Journal of Bioscience and Bioengineering*, **2019**, 128, 613-621	3.3	10
43	Direct Conversion of Human Umbilical Cord Blood into Induced Neural Stem Cells with SOX2 and HMGA2. *International Journal of Stem Cells*, **2017**, 10, 227-234	3	10
42	Direct cell fate conversion of human somatic stem cells into cone and rod photoreceptor-like cells by inhibition of microRNA-203. *Oncotarget*, **2016**, 7, 42139-42149	3.3	10
41	New insights into the pros and cons of cross-linking decellularized bioartificial organs. *International Journal of Artificial Organs*, **2017**, 40, 136-141	1.9	10
40	Influence of hypoxia on the stemness of umbilical cord matrix-derived mesenchymal stem cells cultured on chitosan films. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 501-511	3.5	8
39	Interferon-□mediated secretion of tryptophanyl-tRNA synthetases has a role in protection of human umbilical cord blood-derived mesenchymal stem cells against experimental colitis. *BMB Reports*, **2019**, 52, 318-323	5.5	8
38	KCHO-1, a novel herbal anti-inflammatory compound, attenuates oxidative stress in an animal model of amyotrophic lateral sclerosis. *Journal of Veterinary Science*, **2017**, 18, 487-497	1.6	8
37	Angiogenesis induced by autologous whole bone marrow stem cells transplantation. *International Journal of Stem Cells*, **2008**, 1, 64-9	3	7
36	The activation of NLRP3 inflammasome potentiates the immunomodulatory abilities of mesenchymal stem cells in a murine colitis model. *BMB Reports*, **2020**, 53, 329-334	5.5	7
35	Establishing a 3D In Vitro Hepatic Model Mimicking Physiologically Relevant to In Vivo State. *Cells*, **2021**, 10,	7.9	7
34	Graphene Quantum Dots from Carbonized Coffee Bean Wastes for Biomedical Applications. *Nanomaterials*, **2021**, 11,	5.4	7

33	Stem cell-secreted 14,15- epoxyeicosatrienoic acid rescues cholesterol homeostasis and autophagic flux in Niemann-Pick-type C disease. *Experimental and Molecular Medicine*, **2018**, 50, 1-14	12.8	7
32	Incorporation of nanoparticles into transplantable decellularized matrices: Applications and challenges. *International Journal of Artificial Organs*, **2018**, 41, 421-430	1.9	7
31	Modeling of Hypoxic Brain Injury through 3D Human Neural Organoids. *Cells*, **2021**, 10,	7.9	7
30	Effects of Human Mesenchymal Stem Cells Coculture on Calcium-Induced Differentiation of Normal Human Keratinocytes. *Stem Cells*, **2017**, 35, 1592-1602	5.8	6
29	Human Hair Follicle Cells with the Cell Surface Marker CD34 Can Regenerate New Mouse Hair Follicles and Located in the Outer Root Sheath of Immunodeficient Nude Mice. *International Journal of Stem Cells*, **2008**, 1, 70-81	3	6
28	cAMP/EPAC Signaling Enables ETV2 to Induce Endothelial Cells with High Angiogenesis Potential. *Molecular Therapy*, **2020**, 28, 466-478	11.7	6
27	Exposure to cigarette smoke disturbs adipokines secretion causing intercellular damage and insulin resistance in high fructose diet-induced metabolic disorder mice. *Biochemical and Biophysical Research Communications*, **2017**, 494, 648-655	3.4	5
26	Effects of conditioned media from human umbilical cord blood-derived mesenchymal stem cells in the skin immune response. *Biomedicine and Pharmacotherapy*, **2020**, 131, 110789	7.5	5
25	Accumulation of APP-CTF induces mitophagy dysfunction in the iNSCs model of Alzheimer's disease.. *Cell Death Discovery*, **2022**, 8, 1	6.9	5
24	Human Leukocyte Antigen Class I Pseudo-Homozygous Mesenchymal Stem Cells Derived from Human Induced Pluripotent Stem Cells. *Stem Cell Reviews and Reports*, **2020**, 16, 792-808	7.3	5
23	Modeling 3D Human Tumor Lymphatic Vessel Network Using High-Throughput Platform. *Advanced Biology*, **2021**, 5, 2000195		5
22	Repeated intramuscular transplantations of hUCB-MSCs improves motor function and survival in the SOD1 GA mice through activation of AMPK. *Scientific Reports*, **2020**, 10, 1572	4.9	4
21	Graphene Quantum Dots Alleviate Impaired Functions in Niemann-Pick Disease Type C in Vivo. *Nano Letters*, **2021**, 21, 2339-2346	11.5	4
20	Additive estrogenic activities of the binary mixtures of four estrogenic chemicals in recombinant yeast expressing human estrogen receptor. *Journal of Veterinary Science*, **2002**, 3, 1-5	1.6	4
19	Preserved Hippocampal Glucose Metabolism on 18F-FDG PET after Transplantation of Human Umbilical Cord Blood-derived Mesenchymal Stem Cells in Chronic Epileptic Rats. *Journal of Korean Medical Science*, **2015**, 30, 1232-40	4.7	3
18	Human umbilical cord blood plasma alleviates age-related olfactory dysfunction by attenuating peripheral TNF-α expression. *BMB Reports*, **2019**, 52, 259-264	5.5	3
17	Oral administration of microbiome-friendly graphene quantum dots as therapy for colitis. *2D Materials*, **2021**, 8, 025036	5.9	3
16	Generation of Human Neural Stem Cells by Direct Phenotypic Conversion. *Results and Problems in Cell Differentiation*, **2018**, 66, 103-121	1.4	3

List of Publications

15	Homing of the Stem Cells from the Acupoint ST-36 to the Site of a Spinal Cord Injury: A Preliminary Study. *JAMS Journal of Acupuncture and Meridian Studies*, **2018**, 11, 133-136	1.2	3
14	Necroptosis Is a Mechanism of Death in Mouse Induced Hepatocyte-Like Cells Reprogrammed from Mouse Embryonic Fibroblasts. *Molecules and Cells*, **2018**, 41, 639-645	3.5	2
13	STB-HO, a novel mica fine particle, inhibits the teratoma-forming ability of human embryonic stem cells after in vivo transplantation. *Oncotarget*, **2016**, 7, 2684-95	3.3	2
12	New insights into the pros and cons of cross-linking decellularized bioartificial organs. *International Journal of Artificial Organs*, **2017**, 40, 136-141	1.9	2
11	Application of nano-graphene oxide as nontoxic disinfectant against alpha and betacoronaviruses. *Veterinary Medicine and Science*, **2021**, 7, 2434-2439	2.1	2
10	Generation of Cortical Brain Organoid with Vascularization by Assembling with Vascular Spheroid.. *International Journal of Stem Cells*, **2022**, 15, 85-94	3	2
9	Cell Surface Nano-modulation for Non-invasive in vivo Near-IR Stem Cell Monitoring. *ChemMedChem*, **2017**, 12, 28-32	3.7	1
8	Vascularization of iNSC spheroid in a 3D spheroid-on-a-chip platform enhances neural maturation. *Biotechnology and Bioengineering*, **2021**,	4.9	1
7	Pimecrolimus interferes the therapeutic efficacy of human mesenchymal stem cells in atopic dermatitis by regulating NFAT-COX2 signaling. *Stem Cell Research and Therapy*, **2021**, 12, 482	8.3	1
6	Induced neural stem cells from human patient-derived fibroblasts attenuate neurodegeneration in Niemann-Pick type C mice. *Journal of Veterinary Science*, **2021**, 22, e7	1.6	1
5	Zika virus infection accelerates Alzheimer's disease phenotypes in brain organoids.. *Cell Death Discovery*, **2022**, 8, 153	6.9	0
4	Improved hepatoblast differentiation of human pluripotent stem cells by coffee bean derived graphene quantum dots. *2D Materials*, **2022**, 9, 035012	5.9	0
3	The secret lives of stem cells: unraveling the molecular basis of stem cell aging. *Cell Cycle*, **2011**, 10, 4188	4.7	
2	In Vitro Differentiation and Expansion of Intrathymic T Cell Progenitors from Human Umbilical Cord Blood-Derived CD34(+) Cells. *International Journal of Stem Cells*, **2009**, 2, 45-50	3	
1	Upregulation of SNAP25 by HDAC inhibition ameliorates Niemann-Pick Type C disease phenotypes via autophagy induction.. *Clinical and Translational Medicine*, **2022**, 12, e776	5.7	