

Jae Ho Kim

List of Publications by Citations

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111
papers

3,061
citations

32
h-index

51
g-index

121
ext. papers

3,563
ext. citations

6
avg, IF

4.97
L-index

#	Paper	IF	Citations
111	3D cell printing of in vitro stabilized skin model and in vivo pre-vascularized skin patch using tissue-specific extracellular matrix bioink: A step towards advanced skin tissue engineering. <i>Biomaterials</i> , 2018 , 168, 38-53	15.6	195
110	Sphingosylphosphorylcholine induces differentiation of human mesenchymal stem cells into smooth-muscle-like cells through a TGF-beta-dependent mechanism. <i>Journal of Cell Science</i> , 2006 , 119, 4994-5005	5.3	141
109	Cancer-derived lysophosphatidic acid stimulates differentiation of human mesenchymal stem cells to myofibroblast-like cells. <i>Stem Cells</i> , 2008 , 26, 789-97	5.8	135
108	Ca ²⁺ -dependent inhibition of Na ⁺ /H ⁺ exchanger 3 (NHE3) requires an NHE3-E3KARP-alpha-actinin-4 complex for oligomerization and endocytosis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 23714-24	5.4	106
107	Role of c-Jun N-terminal kinase in the PDGF-induced proliferation and migration of human adipose tissue-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2005 , 95, 1135-45	4.7	96
106	Tumor necrosis factor- α -activated mesenchymal stem cells promote endothelial progenitor cell homing and angiogenesis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2136-44	6.9	84
105	Ca ²⁺ -dependent inhibition of NHE3 requires PKC alpha which binds to E3KARP to decrease surface NHE3 containing plasma membrane complexes. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C1527-36	5.4	79
104	Human mesenchymal stem cell differentiation to the osteogenic or adipogenic lineage is regulated by AMP-activated protein kinase. <i>Journal of Cellular Physiology</i> , 2012 , 227, 1680-7	7	77
103	Lysophosphatidic acid stimulates brush border Na ⁺ /H ⁺ exchanger 3 (NHE3) activity by increasing its exocytosis by an NHE3 kinase A regulatory protein-dependent mechanism. <i>Journal of Biological Chemistry</i> , 2003 , 278, 16494-501	5.4	75
102	Recent advances in stem cell therapeutics and tissue engineering strategies. <i>Biomaterials Research</i> , 2018 , 22, 36	16.8	75
101	The roles of PDZ-containing proteins in PLC-beta-mediated signaling. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 288, 1-7	3.4	74
100	Oncostatin M promotes osteogenesis and suppresses adipogenic differentiation of human adipose tissue-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2007 , 101, 1238-51	4.7	73
99	Autotaxin Regulates Maintenance of Ovarian Cancer Stem Cells through Lysophosphatidic Acid-Mediated Autocrine Mechanism. <i>Stem Cells</i> , 2016 , 34, 551-64	5.8	71
98	Cancer stem cell metabolism: target for cancer therapy. <i>BMB Reports</i> , 2018 , 51, 319-326	5.5	68
97	A Rho kinase/myocardin-related transcription factor-A-dependent mechanism underlies the sphingosylphosphorylcholine-induced differentiation of mesenchymal stem cells into contractile smooth muscle cells. <i>Circulation Research</i> , 2008 , 103, 635-42	15.7	63
96	Hypoxia-NOTCH1-SOX2 signaling is important for maintaining cancer stem cells in ovarian cancer. <i>Oncotarget</i> , 2016 , 7, 55624-55638	3.3	63
95	WKYMVm-induced activation of formyl peptide receptor 2 stimulates ischemic neovasclogenesis by promoting homing of endothelial colony-forming cells. <i>Stem Cells</i> , 2014 , 32, 779-90	5.8	58

94	Comparative analysis of the secretory proteome of human adipose stromal vascular fraction cells during adipogenesis. <i>Proteomics</i> , 2010 , 10, 394-405	4.8	57
93	Thromboxane a(2) induces differentiation of human mesenchymal stem cells to smooth muscle-like cells. <i>Stem Cells</i> , 2009 , 27, 191-9	5.8	53
92	Human adipose stromal cells expanded in human serum promote engraftment of human peripheral blood hematopoietic stem cells in NOD/SCID mice. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 25-31	3.4	53
91	Sphingosylphosphorylcholine induces proliferation of human adipose tissue-derived mesenchymal stem cells via activation of JNK. <i>Journal of Lipid Research</i> , 2006 , 47, 653-64	6.3	52
90	FOXP1 functions as an oncogene in promoting cancer stem cell-like characteristics in ovarian cancer cells. <i>Oncotarget</i> , 2016 , 7, 3506-19	3.3	49
89	Ovarian cancer-derived lysophosphatidic acid stimulates secretion of VEGF and stromal cell-derived factor-1 alpha from human mesenchymal stem cells. <i>Experimental and Molecular Medicine</i> , 2010 , 42, 280-93	12.8	46
88	Lysophosphatidic acid in malignant ascites stimulates migration of human mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2008 , 104, 499-510	4.7	44
87	Oncostatin M induces proliferation of human adipose tissue-derived mesenchymal stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2005 , 37, 2357-65	5.6	44
86	Thromboxane A(2) modulates migration, proliferation, and differentiation of adipose tissue-derived mesenchymal stem cells. <i>Experimental and Molecular Medicine</i> , 2009 , 41, 17-24	12.8	43
85	Crucial role of HMGA1 in the self-renewal and drug resistance of ovarian cancer stem cells. <i>Experimental and Molecular Medicine</i> , 2016 , 48, e255	12.8	38
84	Lysophosphatidic acid induces cell migration through the selective activation of Akt1. <i>Experimental and Molecular Medicine</i> , 2008 , 40, 445-52	12.8	37
83	Lysophosphatidic acid-induced expression of periostin in stromal cells: Prognostic relevance of periostin expression in epithelial ovarian cancer. <i>International Journal of Cancer</i> , 2011 , 128, 332-42	7.5	36
82	Mesenchymal stem cells stimulate angiogenesis in a murine xenograft model of A549 human adenocarcinoma through an LPA1 receptor-dependent mechanism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 1205-13	5	35
81	Trp-Lys-Tyr-Met-Val-D-Met is a chemoattractant for human phagocytic cells. <i>Journal of Leukocyte Biology</i> , 1999 , 66, 915-22	6.5	33
80	Notch1 acts via Foxc2 to promote definitive hematopoiesis via effects on hemogenic endothelium. <i>Blood</i> , 2015 , 125, 1418-26	2.2	32
79	Oncostatin M promotes mesenchymal stem cell-stimulated tumor growth through a paracrine mechanism involving periostin and TGFBI. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 1869-77	5.6	31
78	Functional expression of smooth muscle-specific ion channels in TGF- β (1)-treated human adipose-derived mesenchymal stem cells. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C377-91	5.4	31
77	Periostin mediates human adipose tissue-derived mesenchymal stem cell-stimulated tumor growth in a xenograft lung adenocarcinoma model. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 2061-70	4.9	31

76	Lysophosphatidic acid mediates migration of human mesenchymal stem cells stimulated by synovial fluid of patients with rheumatoid arthritis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 23-30	5	29
75	Oncostatin M decreases adiponectin expression and induces dedifferentiation of adipocytes by JAK3- and MEK-dependent pathways. <i>International Journal of Biochemistry and Cell Biology</i> , 2007 , 39, 439-49	5.6	28
74	Periostin accelerates bone healing mediated by human mesenchymal stem cell-embedded hydroxyapatite/tricalcium phosphate scaffold. <i>PLoS ONE</i> , 2015 , 10, e0116698	3.7	28
73	Sphingosylphosphorylcholine induces apoptosis of endothelial cells through reactive oxygen species-mediated activation of ERK. <i>Journal of Cellular Biochemistry</i> , 2007 , 100, 1536-47	4.7	26
72	Macrophages regulate smooth muscle differentiation of mesenchymal stem cells via a prostaglandin F ₂ mediated paracrine mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2733-40	9.4	25
71	Structural characterization and interaction of periostin and bone morphogenetic protein for regulation of collagen cross-linking. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 449, 425-31	3.4	24
70	Synthesis and Characterization of Water-Soluble Conjugated Oligoelectrolytes for Near-Infrared Fluorescence Biological Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15937-47	9.5	23
69	Formyl Peptide Receptor 2 Is Involved in Cardiac Repair After Myocardial Infarction Through Mobilization of Circulating Angiogenic Cells. <i>Stem Cells</i> , 2017 , 35, 654-665	5.8	23
68	N-Acetylated Proline-Glycine-Proline Accelerates Cutaneous Wound Healing and Neovascularization by Human Endothelial Progenitor Cells. <i>Scientific Reports</i> , 2017 , 7, 43057	4.9	21
67	Proteomic identification of betaig-h3 as a lysophosphatidic acid-induced secreted protein of human mesenchymal stem cells: paracrine activation of A549 lung adenocarcinoma cells by betaig-h3. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, M111.012385	7.6	21
66	Proteomic identification of ADAM12 as a regulator for TGF- β -induced differentiation of human mesenchymal stem cells to smooth muscle cells. <i>PLoS ONE</i> , 2012 , 7, e40820	3.7	21
65	Doxorubicin Regulates Autophagy Signals via Accumulation of Cytosolic Ca in Human Cardiac Progenitor Cells. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	21
64	Oncostatin M stimulates expression of stromal-derived factor-1 in human mesenchymal stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2007 , 39, 650-9	5.6	19
63	Novel highly specific anti-periostin antibodies uncover the functional importance of the fascilin 1-1 domain and highlight preferential expression of periostin in aggressive breast cancer. <i>International Journal of Cancer</i> , 2016 , 138, 1959-70	7.5	19
62	Role of autotaxin in cancer stem cells. <i>Cancer and Metastasis Reviews</i> , 2018 , 37, 509-518	9.6	18
61	Therapeutic angiogenesis in a murine model of limb ischemia by recombinant periostin and its fascilin I domain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1324-32	6.9	18
60	Kr β pel-like factor 4 mediates lysophosphatidic acid-stimulated migration and proliferation of PC3M prostate cancer cells. <i>Experimental and Molecular Medicine</i> , 2014 , 46, e104	12.8	18
59	Role of MEK-ERK pathway in sphingosylphosphorylcholine-induced cell death in human adipose tissue-derived mesenchymal stem cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005 , 1734, 25-33	5	18

58	Isolation of Foreign Material-Free Endothelial Progenitor Cells Using CD31 Aptamer and Therapeutic Application for Ischemic Injury. <i>PLoS ONE</i> , 2015 , 10, e0131785	3.7	18
57	Lysophosphatidic acid induces exocytic trafficking of Na(+)/H(+) exchanger 3 by E3KARP-dependent activation of phospholipase C. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2004 , 1683, 59-68	5	17
56	Sphingosylphosphorylcholine generates reactive oxygen species through calcium-, protein kinase Cdelta- and phospholipase D-dependent pathways. <i>Cellular Signalling</i> , 2005 , 17, 777-87	4.9	17
55	Injectable PLGA microspheres encapsulating WKYMVM peptide for neovascularization. <i>Acta Biomaterialia</i> , 2015 , 25, 76-85	10.8	16
54	Synovial fluid of patients with rheumatoid arthritis induces alpha-smooth muscle actin in human adipose tissue-derived mesenchymal stem cells through a TGF-beta1-dependent mechanism. <i>Experimental and Molecular Medicine</i> , 2010 , 42, 565-73	12.8	16
53	Role of Krppel-Like Factor 4 in the Maintenance of Chemoresistance of Anaplastic Thyroid Cancer. <i>Thyroid</i> , 2017 , 27, 1424-1432	6.2	15
52	Role of Notch1 in the arterial specification and angiogenic potential of mouse embryonic stem cell-derived endothelial cells. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 197	8.3	15
51	Lysophosphatidic acid activates TGFBIp expression in human corneal fibroblasts through a TGF-β-dependent pathway. <i>Cellular Signalling</i> , 2012 , 24, 1241-50	4.9	15
50	Calcium Channels as Novel Therapeutic Targets for Ovarian Cancer Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
49	Trib2 regulates the pluripotency of embryonic stem cells and enhances reprogramming efficiency. <i>Experimental and Molecular Medicine</i> , 2017 , 49, e401	12.8	14
48	Lysophosphatidic acid-induced ADAM12 expression mediates human adipose tissue-derived mesenchymal stem cell-stimulated tumor growth. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 2069-76	5.6	13
47	Effects of mechanical stimulation on the reprogramming of somatic cells into human-induced pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 139	8.3	11
46	WKYMVM hexapeptide, a strong formyl peptide receptor 2 agonist, attenuates hyperoxia-induced lung injuries in newborn mice. <i>Scientific Reports</i> , 2019 , 9, 6815	4.9	11
45	Stimulation of cutaneous wound healing by an FPR2-specific peptide agonist WKYMVM. <i>Wound Repair and Regeneration</i> , 2015 , 23, 575-82	3.6	11
44	Platelet-activating factor receptor mediates oxidized low density lipoprotein-induced migration of bone marrow-derived mesenchymal stem cells. <i>Cellular Physiology and Biochemistry</i> , 2010 , 26, 689-98	3.9	11
43	Sphingosylphosphorylcholine stimulates expression of fibronectin through TGF-beta1-Smad-dependent mechanism in human mesenchymal stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2007 , 39, 1224-34	5.6	10
42	Role of formyl peptide receptor 2 in homing of endothelial progenitor cells and therapeutic angiogenesis. <i>Advances in Biological Regulation</i> , 2015 , 57, 162-72	6.2	9
41	Reptin regulates pluripotency of embryonic stem cells and somatic cell reprogramming through Oct4-dependent mechanism. <i>Stem Cells</i> , 2014 , 32, 3126-36	5.8	9

40	Efficient production of retroviruses using PLGA/bPEI-DNA nanoparticles and application for reprogramming somatic cells. <i>PLoS ONE</i> , 2013 , 8, e76875	3.7	9
39	Identification of a novel angiogenic peptide from periostin. <i>PLoS ONE</i> , 2017 , 12, e0187464	3.7	8
38	TRRAP stimulates the tumorigenic potential of ovarian cancer stem cells. <i>BMB Reports</i> , 2018 , 51, 514-519	3.5	8
37	CD166 promotes the cancer stem-like properties of primary epithelial ovarian cancer cells. <i>BMB Reports</i> , 2020 , 53, 622-627	5.5	8
36	Phospholipid End-Capped Bioreducible Polyurea Micelles as a Potential Platform for Intracellular Drug Delivery of Doxorubicin in Tumor Cells. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1883-1893	5.5	7
35	High Glucose Causes Human Cardiac Progenitor Cell Dysfunction by Promoting Mitochondrial Fission: Role of a GLUT1 Blocker. <i>Biomolecules and Therapeutics</i> , 2016 , 24, 363-70	4.2	7
34	Biomedical therapy using synthetic WKYMVm hexapeptide. <i>Organogenesis</i> , 2016 , 12, 53-60	1.7	7
33	Pozotinib suppresses ovarian cancer stem cell growth via inhibition of HER4-mediated STAT5 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 526, 158-164	3.4	6
32	Therapeutic Strategies for Targeting Ovarian Cancer Stem Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
31	Lnk is an important modulator of insulin-like growth factor-1/Akt/peroxisome proliferator-activated receptor-gamma axis during adipogenesis of mesenchymal stem cells. <i>Korean Journal of Physiology and Pharmacology</i> , 2016 , 20, 459-66	1.8	6
30	Coadministration of endothelial and smooth muscle cells derived from human induced pluripotent stem cells as a therapy for critical limb ischemia. <i>Stem Cells Translational Medicine</i> , 2021 , 10, 414-426	6.9	5
29	Role of CXCR2 in the Ac-PGP-Induced Mobilization of Circulating Angiogenic Cells and its Therapeutic Implications. <i>Stem Cells Translational Medicine</i> , 2019 , 8, 236-246	6.9	5
28	Role of stem cell mobilization in the treatment of ischemic diseases. <i>Archives of Pharmacal Research</i> , 2019 , 42, 224-231	6.1	4
27	Ischemia-induced Netrin-4 promotes neovascularization through endothelial progenitor cell activation via Unc-5 Netrin receptor B. <i>FASEB Journal</i> , 2020 , 34, 1231-1246	0.9	4
26	Sodium/glucose Co-Transporter 2 Inhibitor, Empagliflozin, Alleviated Transient Expression of SGLT2 after Myocardial Infarction. <i>Korean Circulation Journal</i> , 2021 , 51, 251-262	2.2	4
25	Upregulation of P21-Activated Kinase 1 (PAK1)/CREB Axis in Squamous Non-Small Cell Lung Carcinoma. <i>Cellular Physiology and Biochemistry</i> , 2018 , 50, 304-316	3.9	4
24	Atrial natriuretic peptide accelerates human endothelial progenitor cell-stimulated cutaneous wound healing and angiogenesis. <i>Wound Repair and Regeneration</i> , 2018 , 26, 116-126	3.6	4
23	Selective elimination of human pluripotent stem cells by Anti-Dsg2 antibody-doxorubicin conjugates. <i>Biomaterials</i> , 2020 , 259, 120265	15.6	3

22	Quantification and application of a liquid chromatography-tandem mass spectrometric method for the determination of WKYMVm peptide in rat using solid-phase extraction. <i>Biomedical Chromatography</i> , 2018 , 32, e4107	1.7	3
21	SURF4 has oncogenic potential in NIH3T3 cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 502, 43-47	3.4	3
20	Oxidized phosphatidylcholine induces migration of bone marrow-derived mesenchymal stem cells through Krüppel-like factor 4-dependent mechanism. <i>Molecular and Cellular Biochemistry</i> , 2011 , 352, 109-15	4.2	2
19	Drug evaluation based on phosphomimetic PDHA1 reveals the complexity of activity-related cell death in A549 non-small cell lung cancer cells. <i>BMB Reports</i> , 2021 , 54, 563-568	5.5	2
18	The anti-microbial peptide SR-0379 stimulates human endothelial progenitor cell-mediated repair of peripheral artery diseases. <i>BMB Reports</i> , 2017 , 50, 504-509	5.5	2
17	WKYMVm ameliorates acute lung injury via neutrophil antimicrobial peptide derived STAT1/IRF1 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 533, 313-318	3.4	2
16	Kap1 regulates the self-renewal of embryonic stem cells and cellular reprogramming by modulating Oct4 protein stability. <i>Cell Death and Differentiation</i> , 2021 , 28, 685-699	12.7	2
15	Regulation of the protein stability and transcriptional activity of OCT4 in stem cells. <i>Advances in Biological Regulation</i> , 2021 , 79, 100777	6.2	2
14	Formyl Peptide Receptor 2 Alleviates Hepatic Fibrosis in Liver Cirrhosis by Vascular Remodeling. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
13	Functional expression and pharmaceutical efficacy of cardiac-specific ion channels in human embryonic stem cell-derived cardiomyocytes. <i>Scientific Reports</i> , 2017 , 7, 13821	4.9	1
12	Poly(-isopropylacrylamide)--Poly(L-lysine)--Poly(L-histidine) Triblock Amphiphilic Copolymer Nanomicelles for Dual-Responsive Anticancer Drug Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 6959-6967	1.3	1
11	The Role of Lysophosphatidic Acid in Adult Stem Cells. <i>International Journal of Stem Cells</i> , 2020 , 13, 182-191	3.9	1
10	Phenotypic change of mesenchymal stem cells into smooth muscle cells regulated by dynamic cell-surface interactions on patterned arrays of ultrathin graphene oxide substrates.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 17	9.4	1
9	Formyl peptide receptor 2 determines sex-specific differences in the progression of nonalcoholic fatty liver disease and steatohepatitis.. <i>Nature Communications</i> , 2022 , 13, 578	17.4	0
8	Yolk-Shell-Type Gold Nanoaggregates for Chemo- and Photothermal Combination Therapy for Drug-Resistant Cancers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53519-53529	9.5	0
7	Pathophysiological role of 27-hydroxycholesterol in human diseases. <i>Advances in Biological Regulation</i> , 2021 , 83, 100837	6.2	0
6	Mesenchymal Stem Cell-Mediated Therapy of Peripheral Artery Disease Is Stimulated by a Lamin A-Progerin Binding Inhibitor. <i>Journal of Lipid and Atherosclerosis</i> , 2020 , 9, 460-473	3	0
5	TRIB2 Stimulates Cancer Stem-Like Properties through Activating the AKT-GSK3β/Catenin Signaling Axis. <i>Molecules and Cells</i> , 2021 , 44, 481-492	3.5	0

- 4 Inhibition of MEK-ERK pathway enhances oncolytic vaccinia virus replication in doxorubicin-resistant ovarian cancer.. *Molecular Therapy - Oncolytics*, **2022**, 25, 211-224 6.4 ○
- 3 Application of periostin peptide-decorated self-assembled protein cage nanoparticles for therapeutic angiogenesis. *BMB Reports*, **2022**, 55, 175-180 5.5 ○
- 2 Large multiprotein complexes are involved in short-term regulation of the epithelial brush border Na⁺/H⁺ exchanger NHE3 **2003**, 20-21
- 1 Lysophosphatidic acid in ascites from ovarian cancer patients selectively activates Akt1 to induce cell migration. *FASEB Journal*, **2008**, 22, 580-580 0.9