Jong-Sun Kang

List of Publications by Year
in descending order

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Version: 2024-02-01

92 papers	3,653 citations	172457 29 h-index	149698 56 g-index
96 all docs	96 docs citations	96 times ranked	4258 citing authors

#	Article	IF	Citations
1	The Cell Surface Membrane Proteins Cdo and Boc Are Components and Targets of the Hedgehog Signaling Pathway and Feedback Network in Mice. Developmental Cell, 2006, 10, 647-656.	7.0	334
2	Overlapping Roles and Collective Requirement for the Coreceptors GAS1, CDO, and BOC in SHH Pathway Function. Developmental Cell, 2011, 20, 775-787.	7.0	255
3	Cdo Functions at Multiple Points in the Sonic Hedgehog Pathway, and Cdo-Deficient Mice Accurately Model Human Holoprosencephaly. Developmental Cell, 2006, 10, 657-665.	7.0	226
4	Dual Functions of Highly Potent Graphene Derivativeâ€“Poly-<scp>l</scp>-Lysine Composites To Inhibit Bacteria and Support Human Cells. ACS Nano, 2012, 6, 7151-7161.	14.6	141
5	Close encounters: regulation of vertebrate skeletal myogenesis by cell-cell contact. Journal of Cell Science, 2005, 118, 2355-2362.	2.0	140
6	Netrins and neogenin promote myotube formation. Journal of Cell Biology, 2004, 167, 493-504.	5.2	132
7	BOC, an Ig superfamily member, associates with CDO to positively regulate myogenic differentiation. EMBO Journal, 2002, 21, 114-124.	7.8	130
8	Activation of p38Î±/Î² MAPK in myogenesis via binding of the scaffold protein JLP to the cell surface protein Cdo. Journal of Cell Biology, 2006, 175, 383-388.	5.2	117
9	Mutations in CDON, Encoding a Hedgehog Receptor, Result in Holoprosencephaly and Defective Interactions with Other Hedgehog Receptors. American Journal of Human Genetics, 2011, 89, 231-240.	6.2	116
10	A Cdoâ€“Bnip-2â€“Cdc42 signaling pathway regulates p38Î±/Î² MAPK activity and myogenic differentiation. Journal of Cell Biology, 2008, 182, 497-507.	5.2	98
11	Positive Regulation of Myogenic bHLH Factors and Skeletal Muscle Development by the Cell Surface Receptor CDO. Developmental Cell, 2004, 7, 843-854.	7.0	86
12	CDO: An Oncogene-, Serum-, and Anchorage-regulated Member of the Ig/Fibronectin Type III Repeat Family. Journal of Cell Biology, 1997, 138, 203-213.	5.2	82
13	Prmt7 Deficiency Causes Reduced Skeletal Muscle Oxidative Metabolism and Age-Related Obesity. Diabetes, 2016, 65, 1868-1882.	0.6	79
14	Skeletal muscle-specificPrmt1deletion causes muscle atrophy via deregulation of the PRMT6-FOXO3 axis. Autophagy, 2019, 15, 1069-1081.	9.1	79
15	Muscle stem cells in developmental and regenerative myogenesis. Current Opinion in Clinical Nutrition and Metabolic Care, 2010, 13, 243-248.	2.5	72
16	Promyogenic members of the Ig and cadherin families associate to positively regulate differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3989-3994.	7.1	71
17	Regulation of Myoblast Motility and Fusion by the CXCR4-associated Sialomucin, CD164. Journal of Biological Chemistry, 2008, 283, 8301-8309.	3.4	65
18	Cardiac specific PRMT1 ablation causes heart failure through CaMKII dysregulation. Nature Communications, 2018, 9, 5107.	12.8	64

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19	Bocmodifies the holoprosencephaly spectrum ofCdomutant mice. DMM Disease Models and Mechanisms, 2011, 4, 368-380.	2.4	63
20	Cdo Interacts with APPL1 and Activates AKT in Myoblast Differentiation. Molecular Biology of the Cell, 2010, 21, 2399-2411.	2.1	50
21	Cdo promotes neuronal differentiationviaactivation of the p38 mitogenâ€activated protein kinase pathway. FASEB Journal, 2009, 23, 2088-2099.	0.5	46
22	Cdon deficiency causes cardiac remodeling through hyperactivation of WNT/Î²-catenin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1345-E1354.	7.1	45
23	Cdo Binds Abl To Promote p38Î±/Î² Mitogen-Activated Protein Kinase Activity and Myogenic Differentiation. Molecular and Cellular Biology, 2009, 29, 4130-4143.	2.3	43
24	Cdo suppresses canonical Wnt signalling via interaction with Lrp6 thereby promoting neuronal differentiation. Nature Communications, 2014, 5, 5455.	12.8	41
25	Cortical Thinning and Hydrocephalus in Mice Lacking the Immunoglobulin Superfamily Member CDO. Molecular and Cellular Biology, 2006, 26, 3764-3772.	2.3	37
26	Long non-coding RNA ChRO1 facilitates ATRX/DAXX-dependent H3.3 deposition for transcription-associated heterochromatin reorganization. Nucleic Acids Research, 2018, 46, 11759-11775.	14.5	37
27	Protein arginine methylation facilitates KCNQ channel-PIP2 interaction leading to seizure suppression. ELife, 2016, 5, .	6.0	37
28	Promyogenic function of Integrin/FAK signaling is mediated by Cdo, Cdc42 and MyoD. Cellular Signalling, 2011, 23, 1162-1169.	3.6	33
29	TGF-Î²-activated Kinase 1 (TAK1) and Apoptosis Signal-regulating Kinase 1 (ASK1) Interact with the Promyogenic Receptor Cdo to Promote Myogenic Differentiation via Activation of p38MAPK Pathway. Journal of Biological Chemistry, 2012, 287, 11602-11615.	3.4	33
30	PKN2 and Cdo interact to activate AKT and promote myoblast differentiation. Cell Death and Disease, 2016, 7, e2431-e2431.	6.3	33
31	Ginsenoside Rg3 upregulates myotube formation and mitochondrial function, thereby protecting myotube atrophy induced by tumor necrosis factor-alpha. Journal of Ethnopharmacology, 2019, 242, 112054.	4.1	30
32	Ginsenoside Rb1 and Rb2 upregulate Akt/mTOR signalingâ€“mediated muscular hypertrophy and myoblast differentiation. Journal of Ginseng Research, 2020, 44, 435-441.	5.7	30
33	Phosphorylation of Stim1 at serine 575 via netrin-2/Cdoâ€“activated ERK1/2 is critical for the promyogenic function of Stim1. Molecular Biology of the Cell, 2012, 23, 1376-1387.	2.1	27
34	Indoprofen prevents muscle wasting in aged mice through activation of PDK1/AKT pathway. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1070-1088.	7.3	26
35	Hedgehog Signaling: Cooking with Gas1. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pe50.	3.9	25
36	Gas1 cooperates with Cdo and promotes myogenic differentiation via activation of p38MAPK. Cellular Signalling, 2011, 23, 2021-2029.	3.6	25

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37	Ginsenoside Rg1 from Panax ginseng enhances myoblast differentiation and myotube growth. Journal of Ginseng Research, 2017, 41, 608-614.	5.7	25
38	Prmt7 promotes myoblast differentiation via methylation of p38MAPK on arginine residue 70. Cell Death and Differentiation, 2020, 27, 573-586.	11.2	24
39	Satellite cellâ€specific ablation of Cdon impairs integrin activation, FGF signalling, and muscle regeneration. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1089-1103.	7.3	24
40	Chemical induced conversion of mouse fibroblasts and human adipose-derived stem cells into skeletal muscle-like cells. Biomaterials, 2019, 193, 30-46.	11.4	23
41	A Sonic hedgehog coreceptor, BOC regulates neuronal differentiation and neurite outgrowth via interaction with ABL and JNK activation. Cellular Signalling, 2017, 30, 30-40.	3.6	22
42	Ocular abnormalities in mice lacking the immunoglobulin superfamily member Cdo. FEBS Journal, 2009, 276, 5998-6010.	4.7	21
43	Tetrahydropalmatine promotes myoblast differentiation through activation of p38MAPK and MyoD. Biochemical and Biophysical Research Communications, 2014, 455, 147-152.	2.1	21
44	PRMT7 methylates and suppresses GLI2 binding to SUFU thereby promoting its activation. Cell Death and Differentiation, 2020, 27, 15-28.	11.2	21
45	Kv4.1, a Key Ion Channel For Low Frequency Firing of Dentate Granule Cells, Is Crucial for Pattern Separation. Journal of Neuroscience, 2020, 40, 2200-2214.	3.6	20
46	Epicatechin elicits MyoD-dependent myoblast differentiation and myogenic conversion of fibroblasts. PLoS ONE, 2017, 12, e0175271.	2.5	20
47	Black ginseng activates Akt signaling, thereby enhancing myoblast differentiation and myotube growth. Journal of Ginseng Research, 2018, 42, 116-121.	5.7	19
48	Endocytosis of KATP Channels Drives Glucose-Stimulated Excitation of Pancreatic Î² Cells. Cell Reports, 2018, 22, 471-481.	6.4	16
49	PRMT1 suppresses ATF4-mediated endoplasmic reticulum response in cardiomyocytes. Cell Death and Disease, 2019, 10, 903.	6.3	16
50	Cdo Regulates Surface Expression of Kir2.1 K+ Channel in Myoblast Differentiation. PLoS ONE, 2016, 11, e0158707.	2.5	16
51	Esco2 promotes neuronal differentiation by repressing Notch signaling. Cellular Signalling, 2011, 23, 1876-1884.	3.6	15
52	Overweight in Mice and Enhanced Adipogenesis In Vitro Are Associated With Lack of the Hedgehog Coreceptor Boc. Diabetes, 2015, 64, 2092-2103.	0.6	15
53	An isoflavone compound daidzein elicits myoblast differentiation and myotube growth. Journal of Functional Foods, 2017, 38, 438-446.	3.4	15
54	Bisphenol A and estradiol impede myoblast differentiation through down-regulating Akt signaling pathway. Toxicology Letters, 2018, 292, 12-19.	0.8	15

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55	Intracellular Zn²⁺Signaling Facilitates Mossy Fiber Input-Induced Heterosynaptic Potentiation of Direct Cortical Inputs in Hippocampal CA3 Pyramidal Cells. Journal of Neuroscience, 2019, 39, 3812-3831.	3.6	15
56	Impaired pattern separation in Tg2576 mice is associated with hyperexcitable dentate gyrus caused by Kv4.1 downregulation. Molecular Brain, 2021, 14, 62.	2.6	15
57	The Shh coreceptor Cdo is required for differentiation of midbrain dopaminergic neurons. Stem Cell Research, 2014, 13, 262-274.	0.7	14
58	Dehydrocorydaline promotes myogenic differentiation via p38 MAPK activation. Molecular Medicine Reports, 2016, 14, 3029-3036.	2.4	14
59	PRMT7 deficiency enhances adipogenesis through modulation of C/EBP-Î². Biochemical and Biophysical Research Communications, 2019, 517, 484-490.	2.1	14
60	ZNF746/PARIS overexpression induces cellular senescence through FoxO1/p21 axis activation in myoblasts. Cell Death and Disease, 2020, 11, 359.	6.3	14
61	Technical requirements for cultured meat production: a review. Journal of Animal Science and Technology, 2021, 63, 681-692.	2.5	14
62	Kazinol-P from Broussonetia kazinoki enhances skeletal muscle differentiation via p38MAPK and MyoD. Biochemical and Biophysical Research Communications, 2015, 456, 471-475.	2.1	13
63	Bakuchiol augments MyoD activation leading to enhanced myoblast differentiation. Chemico-Biological Interactions, 2016, 248, 60-67.	4.0	13
64	A Shh coreceptor Cdo is required for efficient cardiomyogenesis of pluripotent stem cells. Journal of Molecular and Cellular Cardiology, 2016, 93, 57-66.	1.9	13
65	Estrogen modulates serotonin effects on vasoconstriction through Src inhibition. Experimental and Molecular Medicine, 2018, 50, 1-9.	7.7	13
66	The inhibition of chloride intracellular channel 1 enhances Ca2+ and reactive oxygen species signaling in A549 human lung cancer cells. Experimental and Molecular Medicine, 2019, 51, 1-11.	7.7	13
67	Methylation determines the extracellular calcium sensitivity of the leak channel NALCN in hippocampal dentate granule cells. Experimental and Molecular Medicine, 2019, 51, 1-14.	7.7	13
68	SLIT3 promotes myogenic differentiation as a novel therapeutic factor against muscle loss. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 1724-1740.	7.3	13
69	Inducible Prmt1 ablation in adult vascular smooth muscle leads to contractile dysfunction and aortic dissection. Experimental and Molecular Medicine, 2021, 53, 1569-1579.	7.7	13
70	CDO, an Hh-Coreceptor, Mediates Lung Cancer Cell Proliferation and Tumorigenicity through Hedgehog Signaling. PLoS ONE, 2014, 9, e111701.	2.5	11
71	PRMT7 deficiency causes dysregulation of the HCN channels in the CA1 pyramidal cells and impairment of social behaviors. Experimental and Molecular Medicine, 2020, 52, 604-614.	7.7	11
72	PRMT7 ablation in cardiomyocytes causes cardiac hypertrophy and fibrosis through Î²-catenin dysregulation. Cellular and Molecular Life Sciences, 2022, 79, 99.	5.4	11

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73	Ginsenoside Rg1 augments oxidative metabolism and anabolic response of skeletal muscle in mice. Journal of Ginseng Research, 2019, 43, 475-481.	5.7	10
74	Role of Protein Arginine Methyltransferases and Inflammation in Muscle Pathophysiology. Frontiers in Physiology, 2021, 12, 712389.	2.8	10
75	Syntaxin 4 regulates the surface localization of a promyogenic receptor Cdo thereby promoting myogenic differentiation. Skeletal Muscle, 2015, 5, 28.	4.2	9
76	Spatiotemporal expression of long noncoding RNA Moshe modulates heart cell lineage commitment. RNA Biology, 2021, 18, 640-654.	3.1	9
77	Protein Arginine Methyltransferases in Neuromuscular Function and Diseases. Cells, 2022, 11, 364.	4.1	9
78	Identification of pathogenic variants in genes related to channelopathy and cardiomyopathy in Korean sudden cardiac arrest survivors. Journal of Human Genetics, 2017, 62, 615-620.	2.3	8
79	Characterization of a novel LQT3 variant with a selective efficacy of mexiletine treatment. Scientific Reports, 2019, 9, 12997.	3.3	8
80	SGTb regulates a surface localization of a guidance receptor BOC to promote neurite outgrowth. Cellular Signalling, 2019, 55, 100-108.	3.6	8
81	BST204, a Rg3 and Rh2 Enriched Ginseng Extract, Upregulates Myotube Formation and Mitochondrial Function in TNF-Î±-Induced Atrophic Myotubes. The American Journal of Chinese Medicine, 2020, 48, 631-650.	3.8	8
82	Roles of ErbB3-binding protein 1 (EBP1) in embryonic development and gene-silencing control. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24852-24860.	7.1	7
83	DDS promotes longevity through a microbiome-mediated starvation signal. Translational Medicine of Aging, 2019, 3, 64-69.	1.3	5
84	PRMT1 suppresses doxorubicin-induced cardiotoxicity by inhibiting endoplasmic reticulum stress. Cellular Signalling, 2022, 98, 110412.	3.6	5
85	Fluid flow facilitates inward rectifier K+ current by convectively restoring [K+] at the cell membrane surface. Scientific Reports, 2016, 6, 39585.	3.3	4
86	Peroxisome proliferator-activated receptor Î²/Î´ (PPARÎ²/Î´) activates promyogenic signaling pathways, thereby promoting myoblast differentiation. Biochemical and Biophysical Research Communications, 2016, 470, 157-162.	2.1	4
87	BST204 Protects Dexamethasone-Induced Myotube Atrophy through the Upregulation of Myotube Formation and Mitochondrial Function. International Journal of Environmental Research and Public Health, 2021, 18, 2367.	2.6	4
88	Arginine methylation as a key post-translational modification in skeletal muscle homeostasis: a review. Precision and Future Medicine, 2019, 3, 139-145.	1.6	3
89	Calbindin regulates Kv4.1 trafficking and excitability in dentate granule cells via CaMKII-dependent phosphorylation. Experimental and Molecular Medicine, 2021, 53, 1134-1147.	7.7	2
90	Cdo Is Required for Efficient Motor Neuron Generation of Embryonic Stem Cells. International Journal of Stem Cells, 2020, 13, 342-352.	1.8	2

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91	Aronia Upregulates Myogenic Differentiation and Augments Muscle Mass and Function Through Muscle Metabolism. Frontiers in Nutrition, 2021, 8, 753643.	3.7	2
92	Cdo Is Required for Efficient Motor Neuron Generation of Embryonic Stem Cells. International Journal of Stem Cells, 2020, 13, 342-352.	1.8	2