Jae-Hyuck Shim

List of Publications by Year
in descending order

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39 papers	3,477 citations	257450 24 h-index	302126 39 g-index
42 all docs	42 docs citations	42 times ranked	5195 citing authors

#	Article	IF	Citations
1	TAK1, but not TAB1 or TAB2, plays an essential role in multiple signaling pathways in vivo. Genes and Development, 2005, 19, 2668-2681.	5.9	632
2	Osteoblast-Osteoclast Communication and Bone Homeostasis. Cells, 2020, 9, 2073.	4.1	485
3	Discovery of a periosteal stem cell mediating intramembranous bone formation. Nature, 2018, 562, 133-139.	27.8	426
4	The p38 MAPK pathway is essential for skeletogenesis and bone homeostasis in mice. Journal of Clinical Investigation, 2010, 120, 2457-2473.	8.2	343
5	Targeting skeletal endothelium to ameliorate bone loss. Nature Medicine, 2018, 24, 823-833.	30.7	218
6	Mitogen-Activated Protein Kinase Pathways in Osteoblasts. Annual Review of Cell and Developmental Biology, 2013, 29, 63-79.	9.4	200
7	CHMP5 is essential for late endosome function and down-regulation of receptor signaling during mouse embryogenesis. Journal of Cell Biology, 2006, 172, 1045-1056.	5.2	110
8	Bone Loss in Rheumatoid Arthritis: Basic Mechanisms and Clinical Implications. Calcified Tissue International, 2018, 102, 533-546.	3.1	93
9	The ERK MAPK Pathway Is Essential for Skeletal Development and Homeostasis. International Journal of Molecular Sciences, 2019, 20, 1803.	4.1	84
10	TAK1-ECSIT-TRAF6 Complex Plays a Key Role in the TLR4 Signal to Activate NF-Î¹B. Journal of Biological Chemistry, 2014, 289, 35205-35214.	3.4	81
11	Bone-targeting AAV-mediated silencing of Schnurri-3 prevents bone loss in osteoporosis. Nature Communications, 2019, 10, 2958.	12.8	70
12	CHMP5 controls bone turnover rates by dampening NF-Î¹B activity in osteoclasts. Journal of Experimental Medicine, 2015, 212, 1283-1301.	8.5	56
13	MLK3 regulates bone development downstream of the faciogenital dysplasia protein FGD1 in mice. Journal of Clinical Investigation, 2011, 121, 4383-4392.	8.2	54
14	Schnurri-3 regulates ERK downstream of WNT signaling in osteoblasts. Journal of Clinical Investigation, 2013, 123, 4010-4022.	8.2	53
15	Cereblon negatively regulates TLR4 signaling through the attenuation of ubiquitination of TRAF6. Cell Death and Disease, 2016, 7, e2313-e2313.	6.3	49
16	A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation. Nature Communications, 2020, 11, 2289.	12.8	48
17	Trabecular bone organoid model for studying the regulation of localized bone remodeling. Science Advances, 2021, 7, .	10.3	48
18	MEKK2 mediates an alternative Î²-catenin pathway that promotes bone formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1226-35.	7.1	47

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19	Endothelial-specific inhibition of NF-Î²B enhances functional haematopoiesis. Nature Communications, 2016, 7, 13829.	12.8	40
20	c-Jun N-Terminal Kinases (JNKs) Are Critical Mediators of Osteoblast Activity In Vivo. Journal of Bone and Mineral Research, 2017, 32, 1811-1815.	2.8	37
21	Ubiquitination of ECSIT is crucial for the activation of p65/p50 NF-Î²Bs in Toll-like receptor 4 signaling. Molecular Biology of the Cell, 2015, 26, 151-160.	2.1	35
22	Bone-Targeting AAV-Mediated Gene Silencing in Osteoclasts for Osteoporosis Therapy. Molecular Therapy - Methods and Clinical Development, 2020, 17, 922-935.	4.1	32
23	Control of bone resorption in mice by Schnurri-3. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8173-8178.	7.1	31
24	p38Î± MAPK Is Required for Tooth Morphogenesis and Enamel Secretion. Journal of Biological Chemistry, 2015, 290, 284-295.	3.4	31
25	Post-translational control of T cell development by the ESCRT protein CHMP5. Nature Immunology, 2017, 18, 780-790.	14.5	29
26	Phosphoinositide-dependent kinase-1 inhibits TRAF6 ubiquitination by interrupting the formation of TAK1â€“TAB2 complex in TLR4 signaling. Cellular Signalling, 2015, 27, 2524-2533.	3.6	24
27	CRBN Is a Negative Regulator of Bactericidal Activity and Autophagy Activation Through Inhibiting the Ubiquitination of ECSIT and BECN1. Frontiers in Immunology, 2019, 10, 2203.	4.8	20
28	TAOK3 is a MAP3K contributing to osteoblast differentiation and skeletal mineralization. Biochemical and Biophysical Research Communications, 2020, 531, 497-502.	2.1	15
29	SLITRK5 is a negative regulator of hedgehog signaling in osteoblasts. Nature Communications, 2021, 12, 4611.	12.8	15
30	MEKK2 mediates aberrant ERK activation in neurofibromatosis type I. Nature Communications, 2020, 11, 5704.	12.8	13
31	Regulation of sclerostin by the SIRT1 stabilization pathway in osteocytes. Cell Death and Differentiation, 2022, 29, 1625-1638.	11.2	12
32	Cellular and Tissue Selectivity of AAV Serotypes for Gene Delivery to Chondrocytes and Cartilage. International Journal of Medical Sciences, 2021, 18, 3353-3360.	2.5	9
33	AAV-mediated delivery of osteoblast/osteoclast-regulating miRNAs for osteoporosis therapy. Molecular Therapy - Nucleic Acids, 2022, 29, 296-311.	5.1	9
34	The Extracellular Signal-Regulated Kinase Mitogen-Activated Protein Kinase Pathway in Osteoblasts. Journal of Bone Metabolism, 2022, 29, 1-15.	1.3	7
35	Gene Therapy for Fibrodysplasia Ossificans Progressiva: Feasibility and Obstacles. Human Gene Therapy, 2022, 33, 782-788.	2.7	6
36	Response to Comment on "PDK1 Nucleates T Cell Receptor-Induced Signaling Complex for NF-ÂB Activation". Science, 2006, 312, 55b-55b.	12.6	5

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37	Assessment of ESCRT Protein CHMP5 Activity on Client Protein Ubiquitination by Immunoprecipitation and Western Blotting. Methods in Molecular Biology, 2019, 1998, 219-226.	0.9	4
38	Deubiquitinating Enzyme USP8 Is Essential for Skeletogenesis by Regulating Wnt Signaling. International Journal of Molecular Sciences, 2021, 22, 10289.	4.1	3
39	A cell surface clicked navigation system to direct specific bone targeting. Bioorganic and Medicinal Chemistry, 2018, 26, 758-764.	3.0	2