Weiguo Zou

List of Publications by Year
in descending order

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62 papers	4,393 citations	126858 33 h-index	128225 60 g-index
64 all docs	64 docs citations	64 times ranked	6205 citing authors

#	Article	IF	Citations
1	Discovery and Application of Postnatal Nucleus Pulposus Progenitors Essential for Intervertebral Disc Homeostasis and Degeneration. Advanced Science, 2022, 9, e2104888.	5.6	30
2	Mechanical regulation of bone remodeling. Bone Research, 2022, 10, 16.	5.4	134
3	The RNA-binding protein Musashi2 governs osteoblast-adipocyte lineage commitment by suppressing PPARÎ³ signaling. Bone Research, 2022, 10, 31.	5.4	20
4	Discovery and Application of Postnatal Nucleus Pulposus Progenitors Essential for Intervertebral Disc Homeostasis and Degeneration (Adv. Sci. 13/2022). Advanced Science, 2022, 9, .	5.6	0
5	Mechanosensitive Channel PIEZO1 Senses Shear Force to Induce KLF2/4 Expression via CaMKII/MEKK3/ERK5 Axis in Endothelial Cells. Cells, 2022, 11, 2191.	1.8	11
6	A custom-designed panel sequencing study in 201 Chinese patients with craniosynostosis revealed novel variants and distinct mutation spectra. Journal of Genetics and Genomics, 2021, 48, 167-171.	1.7	3
7	H3K36 methyltransferase NSD1 regulates chondrocyte differentiation for skeletal development and fracture repair. Bone Research, 2021, 9, 30.	5.4	17
8	Î±-TubK40me3 is required for neuronal polarization and migration by promoting microtubule formation. Nature Communications, 2021, 12, 4113.	5.8	16
9	Tissue Renin-Angiotensin System (tRAS) Induce Intervertebral Disc Degeneration by Activating Oxidative Stress and Inflammatory Reaction. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-25.	1.9	14
10	Tracing the skeletal progenitor transition during postnatal bone formation. Cell Stem Cell, 2021, 28, 2122-2136.e3.	5.2	71
11	VGLL4 promotes osteoblast differentiation by antagonizing TEADs-inhibited Runx2 transcription. Science Advances, 2020, 6, .	4.7	30
12	Histone demethylase LSD1 is critical for endochondral ossification during bone fracture healing. Science Advances, 2020, 6, .	4.7	16
13	Identification of PIEZO1 polymorphisms for human bone mineral density. Bone, 2020, 133, 115247.	1.4	30
14	Mechanical sensing protein PIEZO1 regulates bone homeostasis via osteoblast-osteoclast crosstalk. Nature Communications, 2020, 11, 282.	5.8	229
15	Tendon-derived cathepsin Kâ€“expressing progenitor cells activate Hedgehog signaling to drive heterotopic ossification. Journal of Clinical Investigation, 2020, 130, 6354-6365.	3.9	54
16	BAD inactivation exacerbates rheumatoid arthritis pathology by promoting survival of sublining macrophages. ELife, 2020, 9, .	2.8	9
17	Targeted genetic screening in mice through haploid embryonic stem cells identifies critical genes in bone development. PLoS Biology, 2019, 17, e3000350.	2.6	15
18	The p.(Pro170Leu) variant in NOG impairs noggin secretion and causes autosomal dominant congenital conductive hearing loss due to stapes ankylosis. Journal of Genetics and Genomics, 2019, 46, 445-449.	1.7	4

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19	STAT3 controls osteoclast differentiation and bone homeostasis by regulating NFATc1 transcription. Journal of Biological Chemistry, 2019, 294, 15395-15407.	1.6	74
20	Profiling and bioinformatics analysis of differentially expressed circular RNAs in human intervertebral disc degeneration. Acta Biochimica Et Biophysica Sinica, 2019, 51, 571-579.	0.9	19
21	Surgical Outcomes After Anterior Controllable Antedisplacement and Fusion Compared with Single Open-Door Laminoplasty: Preliminary Analysis of Postoperative Changes of Spinal Cord Displacements on T2-Weighted Magnetic Resonance Imaging. World Neurosurgery, 2019, 127, e288-e298.	0.7	11
22	Lkb1 deletion in periosteal mesenchymal progenitors induces osteogenic tumors through mTORC1 activation. Journal of Clinical Investigation, 2019, 129, 1895-1909.	3.9	49
23	Reply to â€˜Dissecting the role of miR-140 and its host geneâ€™. Nature Cell Biology, 2018, 20, 519-520.	4.6	2
24	WWP2 is a physiological ubiquitin ligase for phosphatase and tensin homolog (PTEN) in mice. Journal of Biological Chemistry, 2018, 293, 8886-8899.	1.6	31
25	Histone demethylase LSD1 regulates bone mass by controlling WNT7B and BMP2 signaling in osteoblasts. Bone Research, 2018, 6, 14.	5.4	40
26	A RANKL-based Osteoclast Culture Assay of Mouse Bone Marrow to Investigate the Role of mTORC1 in Osteoclast Formation. Journal of Visualized Experiments, 2018, , .	0.2	10
27	H3K36 trimethylation mediated by SETD2 regulates the fate of bone marrow mesenchymal stem cells. PLoS Biology, 2018, 16, e2006522.	2.6	73
28	Paracrine and endocrine actions of boneâ€”the functions of secretory proteins from osteoblasts, osteocytes, and osteoclasts. Bone Research, 2018, 6, 16.	5.4	339
29	Gefitinib for Epidermal Growth Factor Receptor Activated Osteoarthritis Subpopulation Treatment. EBioMedicine, 2018, 32, 223-233.	2.7	26
30	The E3 ligases Itch and WWP2 cooperate to limit TH2 differentiation by enhancing signaling through the TCR. Nature Immunology, 2018, 19, 766-775.	7.0	30
31	RNA-binding protein SAMD4 regulates skeleton development through translational inhibition of Mig6 expression. Cell Discovery, 2017, 3, 16050.	3.1	23
32	SMURF2 regulates bone homeostasis by disrupting SMAD3 interaction with vitamin D receptor in osteoblasts. Nature Communications, 2017, 8, 14570.	5.8	52
33	mTOR/Raptor signaling is critical for skeletogenesis in mice through the regulation of Runx2 expression. Cell Death and Differentiation, 2017, 24, 1886-1899.	5.0	57
34	Inactivation of Regulatory-associated Protein of mTOR (Raptor)/Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling in Osteoclasts Increases Bone Mass by Inhibiting Osteoclast Differentiation in Mice. Journal of Biological Chemistry, 2017, 292, 196-204.	1.6	76
35	Cdh1 regulates craniofacial development via APC-dependent ubiquitination and activation of Goosecoid. Cell Research, 2016, 26, 699-712.	5.7	25
36	Cdh1 inhibits WWP2-mediated ubiquitination of PTEN to suppress tumorigenesis in an APC-independent manner. Cell Discovery, 2016, 2, 15044.	3.1	33

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37	Bromodomain and Extra-terminal (BET) Protein Inhibitors Suppress Chondrocyte Differentiation and Restrain Bone Growth. Journal of Biological Chemistry, 2016, 291, 26647-26657.	1.6	17
38	Mediator MED23 cooperates with RUNX2 to drive osteoblast differentiation and bone development. Nature Communications, 2016, 7, 11149.	5.8	71
39	The microtubule-associated protein DCAMKL1 regulates osteoblast function via repression of Runx2. Journal of Experimental Medicine, 2013, 210, 1793-1806.	4.2	56
40	Schnurri-3 regulates ERK downstream of WNT signaling in osteoblasts. Journal of Clinical Investigation, 2013, 123, 4010-4022.	3.9	53
41	The microtubule-associated protein DCAMKL1 regulates osteoblast function via repression of Runx2. Journal of Cell Biology, 2013, 202, 2024OIA68.	2.3	0
42	Cdh1 Regulates Osteoblast Function through an APC/C-Independent Modulation of Smurf1. Molecular Cell, 2011, 44, 721-733.	4.5	91
43	The E3 ubiquitin ligase Wwp2 regulates craniofacial development through mono-ubiquitylation of Goosecoid. Nature Cell Biology, 2011, 13, 59-65.	4.6	95
44	MLK3 regulates bone development downstream of the faciogenital dysplasia protein FGD1 in mice. Journal of Clinical Investigation, 2011, 121, 4383-4392.	3.9	54
45	The p38 MAPK pathway is essential for skeletogenesis and bone homeostasis in mice. Journal of Clinical Investigation, 2010, 120, 2457-2473.	3.9	343
46	TAK1 is an essential regulator of BMP signalling in cartilage. EMBO Journal, 2009, 28, 2028-2041.	3.5	124
47	ISG15 modification of the eIF4E cognate 4EHP enhances cap structure-binding activity of 4EHP. Genes and Development, 2007, 21, 255-260.	2.7	151
48	Negative regulation of ISG15 E3 ligase EFP through its autoISGylation. Biochemical and Biophysical Research Communications, 2007, 354, 321-327.	1.0	44
49	Microarray analysis reveals that Type I interferon strongly increases the expression of immune-response related genes in Ubp43 (Usp18) deficient macrophages. Biochemical and Biophysical Research Communications, 2007, 356, 193-199.	1.0	49
50	UBP43 is a novel regulator of interferon signaling independent of its ISG15 isopeptidase activity. EMBO Journal, 2006, 25, 2358-2367.	3.5	374
51	Ube1L and Protein ISGylation Are Not Essential for Alpha/Beta Interferon Signaling. Molecular and Cellular Biology, 2006, 26, 472-479.	1.1	113
52	The Interferon-inducible Ubiquitin-protein Isopeptide Ligase (E3) EFP Also Functions as an ISG15 E3 Ligase. Journal of Biological Chemistry, 2006, 281, 3989-3994.	1.6	238
53	Proteomic identification of proteins conjugated to ISG15 in mouse and human cells. Biochemical and Biophysical Research Communications, 2005, 336, 496-506.	1.0	211
54	Suppression of tumor growth by oncolytic adenovirus-mediated delivery of an antiangiogenic gene, Soluble Flt-1. Molecular Therapy, 2005, 11, 553-562.	3.7	55

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55	ISG15 modification of ubiquitin E2 Ubc13 disrupts its ability to form thioester bond with ubiquitin. Biochemical and Biophysical Research Communications, 2005, 336, 61-68.	1.0	72
56	A novel oncolytic adenovirus targeting to telomerase activity in tumor cells with potent. Oncogene, 2004, 23, 457-464.	2.6	62
57	An oncolytic adenoviral vector of Smac increases antitumor activity of TRAIL against HCC in human cells and in mice. Hepatology, 2004, 39, 1371-1381.	3.6	148
58	Geldanamycin, a heat shock protein 90-binding agent, disrupts Stat5 activation in IL-2-stimulated cells. Journal of Cellular Physiology, 2004, 198, 188-196.	2.0	14
59	Further identification of NSF* as an epilepsy related gene. Molecular Brain Research, 2002, 99, 141-144.	2.5	12
60	Involvement of caspase-3 and p38 mitogen-activated protein kinase in cobalt chloride-induced apoptosis in PC12 cells. Journal of Neuroscience Research, 2002, 67, 837-843.	1.3	102
61	Critical Sites for the Interaction between IL-2RÎ³ and JAK3 and the Following Signaling. Biochemical and Biophysical Research Communications, 2001, 283, 598-605.	1.0	7
62	Cobalt chloride induces PC12 cells apoptosis through reactive oxygen species and accompanied by AP-1 activation. Journal of Neuroscience Research, 2001, 64, 646-653.	1.3	164