Mei Wan

List of Publications by Year
in descending order

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68 papers	7,191 citations	87888 38 h-index	95266 68 g-index
77 all docs	77 docs citations	77 times ranked	8376 citing authors

#	Article	IF	Citations
1	TGF-Î²1â€“induced migration of bone mesenchymal stem cells couples bone resorption with formation. Nature Medicine, 2009, 15, 757-765.	30.7	1,001
2	Inhibition of TGF-Î² signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. Nature Medicine, 2013, 19, 704-712.	30.7	780
3	PDGF-BB secreted by preosteoclasts induces angiogenesis during coupling with osteogenesis. Nature Medicine, 2014, 20, 1270-1278.	30.7	641
4	Matrix IGF-1 maintains bone mass by activation of mTOR in mesenchymal stem cells. Nature Medicine, 2012, 18, 1095-1101.	30.7	498
5	BMP signaling in skeletal development. Biochemical and Biophysical Research Communications, 2005, 328, 651-657.	2.1	344
6	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. Journal of Clinical Investigation, 2019, 129, 1076-1093.	8.2	239
7	Parathyroid hormone signaling through low-density lipoprotein-related protein 6. Genes and Development, 2008, 22, 2968-2979.	5.9	208
8	Halofuginone attenuates osteoarthritis by inhibition of TGF-Î² activity and H-type vessel formation in subchondral bone. Annals of the Rheumatic Diseases, 2016, 75, 1714-1721.	0.9	182
9	MiR-497â^¼195 cluster regulates angiogenesis during coupling with osteogenesis by maintaining endothelial Notch and HIF-1Î± activity. Nature Communications, 2017, 8, 16003.	12.8	157
10	Jab1 antagonizes TGFâ€Î² signaling by inducing Smad4 degradation. EMBO Reports, 2002, 3, 171-176.	4.5	155
11	Prostaglandin E2 mediates sensory nerve regulation of bone homeostasis. Nature Communications, 2019, 10, 181.	12.8	152
12	TGF-Î² type II receptor phosphorylates PTH receptor to integrate bone remodelling signalling. Nature Cell Biology, 2010, 12, 224-234.	10.3	136
13	Parathyroid hormone induces differentiation of mesenchymal stromal/stem cells by enhancing bone morphogenetic protein signaling. Journal of Bone and Mineral Research, 2012, 27, 2001-2014.	2.8	136
14	Injuryâ€Activated Transforming Growth Factor Î² Controls Mobilization of Mesenchymal Stem Cells for Tissue Remodeling. Stem Cells, 2012, 30, 2498-2511.	3.2	129
15	Inhibition of overactive TGF-Î² attenuates progression of heterotopic ossification in mice. Nature Communications, 2018, 9, 551.	12.8	125
16	Inhibition of Sca-1-Positive Skeletal Stem Cell Recruitment by Alendronate Blunts the Anabolic Effects of Parathyroid Hormone on Bone Remodeling. Cell Stem Cell, 2010, 7, 571-580.	11.1	122
17	Macrophage-lineage TRAP+ cells recruit periosteum-derived cells for periosteal osteogenesis and regeneration. Journal of Clinical Investigation, 2019, 129, 2578-2594.	8.2	102
18	Angiogenesis stimulated by elevated PDGF-BB in subchondral bone contributes to osteoarthritis development. JCI Insight, 2020, 5, .	5.0	99

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19	Smad4 Protein Stability Is Regulated by Ubiquitin Ligase SCFÎ²-TrCP1. Journal of Biological Chemistry, 2004, 279, 14484-14487.	3.4	93
20	Mannose receptor modulates macrophage polarization and allergic inflammation through miR-511-3p. Journal of Allergy and Clinical Immunology, 2018, 141, 350-364.e8.	2.9	91
21	Mechanosignaling activation of TGFÎ² maintains intervertebral disc homeostasis. Bone Research, 2017, 5, 17008.	11.4	83
22	Mechanical stress determines the configuration of TGFÎ² activation in articular cartilage. Nature Communications, 2021, 12, 1706.	12.8	81
23	Sustained BMP Signaling in Osteoblasts Stimulates Bone Formation by Promoting Angiogenesis and Osteoblast Differentiation. Journal of Bone and Mineral Research, 2009, 24, 1224-1233.	2.8	74
24	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. Nature Communications, 2019, 10, 5643.	12.8	72
25	Programmed cell senescence in skeleton during late puberty. Nature Communications, 2017, 8, 1312.	12.8	70
26	Disruption of LRP6 in osteoblasts blunts the bone anabolic activity of PTH. Journal of Bone and Mineral Research, 2013, 28, 2094-2108.	2.8	66
27	Sensory nerves regulate mesenchymal stromal cell lineage commitment by tuning sympathetic tones. Journal of Clinical Investigation, 2020, 130, 3483-3498.	8.2	65
28	Systemic neutralization of TGFâ€Î² attenuates osteoarthritis. Annals of the New York Academy of Sciences, 2016, 1376, 53-64.	3.8	62
29	Functional Effects of TGF-Î²1 on Mesenchymal Stem Cell Mobilization in Cockroach Allergenâ€“Induced Asthma. Journal of Immunology, 2014, 192, 4560-4570.	0.8	61
30	RhoA determines lineage fate of mesenchymal stem cells by modulating CTGFâ€“VEGF complex in extracellular matrix. Nature Communications, 2016, 7, 11455.	12.8	61
31	Excessive Activation of TGFÎ² by Spinal Instability Causes Vertebral Endplate Sclerosis. Scientific Reports, 2016, 6, 27093.	3.3	59
32	Ciliary parathyroid hormone signaling activates transforming growth factor-Î² to maintain intervertebral disc homeostasis during aging. Bone Research, 2018, 6, 21.	11.4	59
33	Cellular senescence in musculoskeletal homeostasis, diseases, and regeneration. Bone Research, 2021, 9, 41.	11.4	58
34	LRP6 Mediates cAMP Generation by G Proteinâ€“Coupled Receptors Through Regulating the Membrane Targeting of Gî± _s. Science Signaling, 2011, 4, ra15.	3.6	54
35	SCFÎ²-TrCP1 Controls Smad4 Protein Stability in Pancreatic Cancer Cells. American Journal of Pathology, 2005, 166, 1379-1392.	3.8	52
36	Aryl Hydrocarbon Receptor Protects Lungs from Cockroach Allergenâ€“Induced Inflammation by Modulating Mesenchymal Stem Cells. Journal of Immunology, 2015, 195, 5539-5550.	0.8	52

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37	Osteoclasts protect bone blood vessels against senescence through the angiogenin/plexin-B2 axis. Nature Communications, 2021, 12, 1832.	12.8	50
38	Membrane type 1-matrix metalloproteinase induces epithelial-to-mesenchymal transition in esophageal squamous cell carcinoma: Observations from clinical and in vitro analyses. Scientific Reports, 2016, 6, 22179.	3.3	45
39	Mesenchymal Stem Cells Recruited by Active TGFÎ² Contribute to Osteogenic Vascular Calcification. Stem Cells and Development, 2014, 23, 1392-1404.	2.1	38
40	CaMKII oxidation regulates cockroach allergenâ€“induced mitophagy in asthma. Journal of Allergy and Clinical Immunology, 2021, 147, 1464-1477.e11.	2.9	38
41	Inhibition of cyclooxygenase-2 activity in subchondral bone modifies a subtype of osteoarthritis. Bone Research, 2019, 7, 29.	11.4	37
42	Quantitative 3D imaging of the cranial microvascular environment at single-cell resolution. Nature Communications, 2021, 12, 6219.	12.8	37
43	Aberrant TGF-Î² activation in bone tendon insertion induces enthesopathy-like disease. Journal of Clinical Investigation, 2018, 128, 846-860.	8.2	36
44	Parathyroid hormone attenuates osteoarthritis pain by remodeling subchondral bone in mice. ELife, 2021, 10, .	6.0	34
45	Aberrant subchondral osteoblastic metabolism modifies NaV1.8 for osteoarthritis. ELife, 2020, 9, .	6.0	34
46	Lipoprotein receptorâ€“related protein 6 is required for parathyroid hormoneâ€“induced Sost suppression. Annals of the New York Academy of Sciences, 2016, 1364, 62-73.	3.8	33
47	Divalent metal cations stimulate skeleton interoception for new bone formation in mouse injury models. Nature Communications, 2022, 13, 535.	12.8	33
48	Ras homolog family member A/Rho-associated protein kinase 1 signaling modulates lineage commitment of mesenchymal stem cells in asthmatic patients through lymphoid enhancerâ€“binding factor 1. Journal of Allergy and Clinical Immunology, 2019, 143, 1560-1574.e6.	2.9	32
49	Chondrogenesis mediates progression of ankylosing spondylitis through heterotopic ossification. Bone Research, 2021, 9, 19.	11.4	32
50	Aberrant Transforming Growth Factor-Î² Activation Recruits Mesenchymal Stem Cells During Prostatic Hyperplasia. Stem Cells Translational Medicine, 2017, 6, 394-404.	3.3	27
51	Oxidized phospholipids are ligands for LRP6. Bone Research, 2018, 6, 22.	11.4	27
52	A tale of the good and bad: Cell senescence in bone homeostasis and disease. International Review of Cell and Molecular Biology, 2019, 346, 97-128.	3.2	26
53	miR-511-3p protects against cockroach allergenâ€“induced lung inflammation by antagonizing CCL2. JCI Insight, 2019, 4, .	5.0	26
54	Periosteal CD68⁺F4/80⁺ Macrophages Are Mechanosensitive for Cortical Bone Formation by Secretion and Activation of TGFâ€Î²1. Advanced Science, 2022, 9, e2103343.	11.2	24

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55	LRP6 in mesenchymal stem cells is required for bone formation during bone growth and bone remodeling. Bone Research, 2014, 2, 14006.	11.4	23
56	Skeleton-secreted PDGF-BB mediates arterial stiffening. Journal of Clinical Investigation, 2021, 131, .	8.2	22
57	PGE2/EP4 skeleton interoception activity reduces vertebral endplate porosity and spinal pain with low-dose celecoxib. Bone Research, 2021, 9, 36.	11.4	17
58	Boneâ€derived sclerostin and Wnt/Î²â€catenin signaling regulate PDGFRÎ± ⁺ adipoprogenitor cell differentiation. FASEB Journal, 2021, 35, e21957.	0.5	17
59	Skeleton interoception regulates bone and fat metabolism through hypothalamic neuroendocrine NPY. ELife, 2021, 10, .	6.0	16
60	Antagonists of LRP6 regulate PTHâ€induced cAMP generation. Annals of the New York Academy of Sciences, 2011, 1237, 39-46.	3.8	14
61	Sialylation of TLR2 initiates osteoclast fusion. Bone Research, 2022, 10, 24.	11.4	12
62	Dendritic cell immunoreceptor drives atopic dermatitis by modulating oxidized CaMKII-involved mast cell activation. JCI Insight, 2022, , .	5.0	11
63	Metabolic Syndrome and Osteoarthritis Distribution in the Hand Joints: A Propensity Score Matching Analysis From the Osteoarthritis Initiative. Journal of Rheumatology, 2021, 48, 1608-1615.	2.0	8
64	Inhibition of Integrin Î±vÎ²6 Activation of TGFâ€Î² Attenuates Tendinopathy. Advanced Science, 2022, 9, e2104469.	11.2	8
65	Type II alveolar epithelial cellâ€“specific loss of RhoA exacerbates allergic airway inflammation through SLC26A4. JCI Insight, 2021, 6, .	5.0	6
66	Statin use and MRI subchondral bone marrow lesion worsening in generalized osteoarthritis: longitudinal analysis from Osteoarthritis Initiative data. European Radiology, 2022, 32, 3944-3953.	4.5	6
67	Conventional MRI-derived subchondral trabecular biomarkers and their association with knee cartilage volume loss as early as 1Âyear: a longitudinal analysis from Osteoarthritis Initiative. Skeletal Radiology, 2022, 51, 1959-1966.	2.0	2
68	LRPs in Bone Homeostasis and Disease. , 2020, , 461-469.		0