Shuanhu Zhou

List of Publications by Year
in descending order

62 papers	3,683 citations	159585 30 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	5142 citing authors

#	Article	IF	Citations
1	Ageâ€related intrinsic changes in human boneâ€marrowâ€derived mesenchymal stem cells and their differentiation to osteoblasts. Aging Cell, 2008, 7, 335-343.	6.7	668
2	Exogenously Regulated Stem Cell-Mediated Gene Therapy for Bone Regeneration. Molecular Therapy, 2001, 3, 449-461.	8.2	240
3	Engineered human mesenchymal stem cells: a novel platform for skeletal cell mediated gene therapy. Journal of Gene Medicine, 2001, 3, 240-251.	2.8	208
4	Cooperation Between TGF-Î² and Wnt Pathways During Chondrocyte and Adipocyte Differentiation of Human Marrow Stromal Cells. Journal of Bone and Mineral Research, 2003, 19, 463-470.	2.8	203
5	Piezo1/2 mediate mechanotransduction essential for bone formation through concerted activation of NFAT-YAP1-ÃŸ-catenin. ELife, 2020, 9, .	6.0	161
6	Estrogen modulates estrogen receptor ? and ? expression, osteogenic activity, and apoptosis in mesenchymal stem cells (MSCs) of osteoporotic mice. Journal of Cellular Biochemistry, 2001, 81, 144-155.	2.6	150
7	The Melatonin MT1 Receptor Axis Modulates Mutant Huntingtin-Mediated Toxicity. Journal of Neuroscience, 2011, 31, 14496-14507.	3.6	145
8	Estrogens Activate Bone Morphogenetic Protein-2 Gene Transcription in Mouse Mesenchymal Stem Cells. Molecular Endocrinology, 2003, 17, 56-66.	3.7	134
9	Systemically administered rhBMP-2 promotes MSC activity and reverses bone and cartilage loss in osteopenic mice. Journal of Cellular Biochemistry, 2002, 86, 461-474.	2.6	113
10	TGF-Î² regulates Î²-catenin signaling and osteoblast differentiation in human mesenchymal stem cells. Journal of Cellular Biochemistry, 2011, 112, 1651-1660.	2.6	107
11	Melatonin and Autophagy in Aging-Related Neurodegenerative Diseases. International Journal of Molecular Sciences, 2020, 21, 7174.	4.1	87
12	Hypoxia Inhibition of Adipocytogenesis in Human Bone Marrow Stromal Cells Requires Transforming Growth Factor-Î²/Smad3 Signaling. Journal of Biological Chemistry, 2005, 280, 22688-22696.	3.4	86
13	Vitamin D Metabolism and Action in Human Bone Marrow Stromal Cells. Endocrinology, 2010, 151, 14-22.	2.8	84
14	Effects of 25-hydroxyvitamin D3 on proliferation and osteoblast differentiation of human marrow stromal cells require CYP27B1/1Î±-hydroxylase. Journal of Bone and Mineral Research, 2011, 26, 1145-1153.	2.8	75
15	Role of Alcohol Drinking in Alzheimerâ€™s Disease, Parkinsonâ€™s Disease, and Amyotrophic Lateral Sclerosis. International Journal of Molecular Sciences, 2020, 21, 2316.	4.1	75
16	Effect of Age on Regulation of Human Osteoclast Differentiation. Journal of Cellular Biochemistry, 2014, 115, 1412-1419.	2.6	70
17	Protection of melatonin in experimental models of newborn hypoxicâ€ischemic brain injury through <scp>MT</scp>1 receptor. Journal of Pineal Research, 2018, 64, e12443.	7.4	62
18	The multiple protective roles and molecular mechanisms of melatonin and its precursor N-acetylserotonin in targeting brain injury and liver damage and in maintaining bone health. Free Radical Biology and Medicine, 2019, 130, 215-233.	2.9	59

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19	Neuroprotective agents for neonatal hypoxicâ€"ischemic brain injury. Drug Discovery Today, 2015, 20, 1372-1381.	6.4	52
20	Clinical characteristics influence in vitro action of 1,25-dihydroxyvitamin D3 in human marrow stromal cells. Journal of Bone and Mineral Research, 2012, 27, 1992-2000.	2.8	51
21	Recombinant TGF-?1 stimulates bone marrow osteoprogenitor cell activity and bone matrix synthesis in osteopenic, old male mice. Journal of Cellular Biochemistry, 1999, 73, 379-389.	2.6	46
22	Plant-derived neuroprotective agents in Parkinson's disease. American Journal of Translational Research (discontinued), 2015, 7, 1189-202.	0.0	46
23	Ageâ€related decline in osteoblastogenesis and 1Î±â€hydroxylase/CYP27B1 in human mesenchymal stem cells: stimulation by parathyroid hormone. Aging Cell, 2011, 10, 962-971.	6.7	45
24	Demineralized bone promotes chondrocyte or osteoblast differentiation of human marrow stromal cells cultured in collagen sponges. Cell and Tissue Banking, 2005, 6, 33-44.	1.1	44
25	Reduced Osteoclastogenesis and RANKL Expression in Marrow from Women Taking Alendronate. Calcified Tissue International, 2011, 88, 272-280.	3.1	39
26	Vitamin D metabolism in human bone marrow stromal (mesenchymal stem) cells. Metabolism: Clinical and Experimental, 2013, 62, 768-777.	3.4	39
27	Inhibition of adipocytogenesis by canonical WNT signaling in human mesenchymal stem cells. Experimental Cell Research, 2011, 317, 1796-1803.	2.6	35
28	Effects of age and gender on WNT gene expression in human bone marrow stromal cells. Journal of Cellular Biochemistry, 2009, 106, 337-343.	2.6	34
29	Nâ€acetylâ€<scp>l</scp>â€tryptophan, but not Nâ€acetylâ€<scp>d</scp>â€tryptophan, rescues neuronal cell death in models of amyotrophic lateral sclerosis. Journal of Neurochemistry, 2015, 134, 956-968.	3.9	34
30	Methazolamide improves neurological behavior by inhibition of neuron apoptosis in subarachnoid hemorrhage mice. Scientific Reports, 2016, 6, 35055.	3.3	34
31	Comparison of TGF-Î²/BMP Pathways Signaled by Demineralized Bone Powder and BMP-2 in Human Dermal Fibroblasts. Journal of Bone and Mineral Research, 2004, 19, 1732-1741.	2.8	32
32	The Impact of Mitochondrial Dysfunction in Amyotrophic Lateral Sclerosis. Cells, 2022, 11, 2049.	4.1	28
33	Increased longevity of hematopoiesis in continuous bone marrow cultures and adipocytogenesis in marrow stromal cells derived from Smad3âˆ'/âˆ' mice. Experimental Hematology, 2005, 33, 353-362.	0.4	27
34	Influence of osteoarthritis grade on molecular signature of human cartilage. Journal of Orthopaedic Research, 2016, 34, 454-462.	2.3	26
35	Adipocyte differentiation in Sod2âˆ'/âˆ' and Sod2+/+ murine bone marrow stromal cells is associated with low antioxidant pools. Experimental Hematology, 2005, 33, 1201-1208.	0.4	25
36	Effects of age on parathyroid hormone signaling in human marrow stromal cells. Aging Cell, 2011, 10, 780-788.	6.7	23

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37	Dehydroepiandrosterone Stimulation of Osteoblastogenesis in Human MSCs Requires IGFâ€1 Signaling. Journal of Cellular Biochemistry, 2016, 117, 1769-1774.	2.6	22
38	The Biogenesis of miRNAs and Their Role in the Development of Amyotrophic Lateral Sclerosis. Cells, 2022, 11, 572.	4.1	21
39	Histone deacetylation mediates the rejuvenation of osteoblastogenesis by the combination of 25(OH)D3 and parathyroid hormone in MSCs from elders. Journal of Steroid Biochemistry and Molecular Biology, 2013, 136, 156-159.	2.5	19
40	Dehydroepiandrosterone and Bone. Vitamins and Hormones, 2018, 108, 251-271.	1.7	17
41	Chronic kidney disease and vitamin D metabolism in human bone marrowâ€"derived MSCs. Annals of the New York Academy of Sciences, 2017, 1402, 43-55.	3.8	16
42	From Bone to Brain: Human Skeletal Stem Cell Therapy for Stroke. Central Nervous System Agents in Medicinal Chemistry, 2011, 11, 157-163.	1.1	15
43	Suppression of Homeobox Transcription Factor VentX Promotes Expansion of Human Hematopoietic Stem/Multipotent Progenitor Cells. Journal of Biological Chemistry, 2012, 287, 29979-29987.	3.4	15
44	Potential Roles of the WNT Signaling Pathway in Amyotrophic Lateral Sclerosis. Cells, 2021, 10, 839.	4.1	15
45	Mechanisms of Osteoinduction/Chondroinduction by Demineralized Bone. Journal of Craniofacial Surgery, 2009, 20, 634-638.	0.7	14
46	Vitamin D metabolism and action in human marrow stromal cells: Effects of chronic kidney disease. Journal of Steroid Biochemistry and Molecular Biology, 2013, 136, 342-344.	2.5	13
47	Megalin mediates 25â€hydroxyvitamin D₃actions in human mesenchymal stem cells. FASEB Journal, 2019, 33, 7684-7693.	0.5	13
48	Increased Adipocytogenesis and Hematopoiesis in Long-Term Bone Marrow Cultures from SMAD3â^'/â^' Mice.. Blood, 2004, 104, 1298-1298.	1.4	13
49	Synergistic stimulation of osteoblast differentiation of rat mesenchymal stem cells by leptin and 25(OH)D3 is mediated by inhibition of chaperone-mediated autophagy. Stem Cell Research and Therapy, 2021, 12, 557.	5.5	13
50	Paracrine effects of haematopoietic cells on human mesenchymal stem cells. Scientific Reports, 2015, 5, 10573.	3.3	12
51	Synergistic effect of 1Î±,25-dihydroxyvitamin D3 and 17Î²-estradiol on osteoblast differentiation of pediatric MSCs. Journal of Steroid Biochemistry and Molecular Biology, 2018, 177, 103-108.	2.5	11
52	Wnt pathway regulation by demineralized bone is approximated by both BMPâ€2 and TGFâ€Î²1 signaling. Journal of Orthopaedic Research, 2013, 31, 554-560.	2.3	10
53	Sox9 regulates hyperexpression of Wnt1 and Fzd1 in human osteosarcoma tissues and cells. International Journal of Clinical and Experimental Pathology, 2014, 7, 4795-805.	0.5	10
54	A Traditional Chinese Medicine Plant Extract Prevents Alcohol-Induced Osteopenia. Frontiers in Pharmacology, 2021, 12, 754088.	3.5	10

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55	Obesity and leptin influence vitamin D metabolism and action in human marrow stromal cells. Journal of Steroid Biochemistry and Molecular Biology, 2020, 198, 105564.	2.5	8
56	Fibroblast growth factor 23 counters vitamin D metabolism and action in human mesenchymal stem cells. Journal of Steroid Biochemistry and Molecular Biology, 2020, 199, 105587.	2.5	8
57	Dysregulated inÂvitro hematopoiesis, radiosensitivity, proliferation, and osteoblastogenesis with marrow from SAMP6 mice. Experimental Hematology, 2012, 40, 499-509.	0.4	6
58	The lentiviral-mediated Nurr1 genetic engineering mesenchymal stem cells protect dopaminergic neurons in a rat model of Parkinson's disease. American Journal of Translational Research (discontinued), 2018, 10, 1583-1599.	0.0	5
59	Tartary buckwheat extract alleviates alcohol-induced acute and chronic liver injuries through the inhibition of oxidative stress and mitochondrial cell death pathway. American Journal of Translational Research (discontinued), 2020, 12, 70-89.	0.0	5
60	Melatonin in neuroskeletal biology. Current Opinion in Pharmacology, 2021, 61, 42-48.	3.5	4
61	Clinical Variables that Influence Properties of Human Mesenchymal Stromal Cells. Regenerative Engineering and Translational Medicine, 2020, 6, 310-321.	2.9	0
62	Use of Stem Cells in Spinal Treatments. , 2019, , 117-125.		0