

Xiao-Dong Chen

List of Publications by Year in descending order

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37
papers

2,683
citations

304602

22
h-index

477173

29
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docs citations

37
times ranked

3608
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular Matrix Made by Bone Marrow Cells Facilitates Expansion of Marrow-Derived Mesenchymal Progenitor Cells and Prevents Their Differentiation Into Osteoblasts. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1943-1956.	3.1	319
2	The small leucine-rich proteoglycan biglycan modulates BMP4-induced osteoblast differentiation. <i>FASEB Journal</i> , 2004, 18, 948-958.	0.2	255
3	A crucial role of caspase-3 in osteogenic differentiation of bone marrow stromal stem cells. <i>Journal of Clinical Investigation</i> , 2004, 114, 1704-1713.	3.9	221
4	Extracellular Matrix Proteoglycans Control the Fate of Bone Marrow Stromal Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 30481-30489.	1.6	220
5	Rescuing replication and osteogenesis of aged mesenchymal stem cells by exposure to a young extracellular matrix. <i>FASEB Journal</i> , 2011, 25, 1474-1485.	0.2	181
6	Reconstitution of Marrow-Derived Extracellular Matrix Ex Vivo: A Robust Culture System for Expanding Large-Scale Highly Functional Human Mesenchymal Stem Cells. <i>Stem Cells and Development</i> , 2010, 19, 1095-1107.	1.1	180
7	Biglycan knockout mice: New models for musculoskeletal diseases. <i>Glycoconjugate Journal</i> , 2002, 19, 257-262.	1.4	151
8	Age-Related Osteoporosis in Biglycan-Deficient Mice Is Related to Defects in Bone Marrow Stromal Cells. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 331-340.	3.1	134
9	Estrogens attenuate oxidative stress and the differentiation and apoptosis of osteoblasts by DNA-binding-independent actions of the ER α . <i>Journal of Bone and Mineral Research</i> , 2010, 25, 769-781.	3.1	99
10	One size does not fit all: developing a cell-specific niche for in vitro study of cell behavior. <i>Matrix Biology</i> , 2016, 52-54, 426-441.	1.5	85
11	Restoring the quantity and quality of elderly human mesenchymal stem cells for autologous cell-based therapies. <i>Stem Cell Research and Therapy</i> , 2017, 8, 239.	2.4	85
12	Extracellular matrix provides an optimal niche for the maintenance and propagation of mesenchymal stem cells. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2010, 90, 45-54.	3.6	82
13	Characterization of bone marrow derived mesenchymal stem cells in suspension. <i>Stem Cell Research and Therapy</i> , 2012, 3, 40.	2.4	77
14	Thy-1 Antigen Expression by Cells in the Osteoblast Lineage. <i>Journal of Bone and Mineral Research</i> , 1999, 14, 362-375.	3.1	72
15	Native extracellular matrix preserves mesenchymal stem cell "stemness" and differentiation potential under serum-free culture conditions. <i>Stem Cell Research and Therapy</i> , 2015, 6, 235.	2.4	69
16	Biomimetic Collagen-Hydroxyapatite Composite Fabricated via a Novel Perfusion-Flow Mineralization Technique. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 487-496.	1.1	66
17	Bmp2 gene in osteoblasts of periosteum and trabecular bone links bone formation to vascularization and mesenchymal stem cells. <i>Journal of Cell Science</i> , 2013, 126, 4085-98.	1.2	63
18	The Urokinase Plasminogen Activator Receptor-Associated Protein/Endo180 Is Coexpressed with Its Interaction Partners Urokinase Plasminogen Activator Receptor and Matrix Metalloprotease-13 during Osteogenesis. <i>Laboratory Investigation</i> , 2001, 81, 1403-1414.	1.7	62

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19	Stromal-Cell-Derived Extracellular Matrix Promotes the Proliferation and Retains the Osteogenic Differentiation Capacity of Mesenchymal Stem Cells on Three-Dimensional Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 171-181.	1.1	59
20	Biglycan Deficiency Interferes With Ovariectomy-Induced Bone Loss. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 2152-2158.	3.1	46
21	The mechanical phenotype of biglycan-deficient mice is bone- and gender-specific. <i>Bone</i> , 2006, 39, 106-116.	1.4	44
22	Silk Fibroin Scaffolds Promote Formation of the <i>Ex Vivo</i> Niche for Salivary Gland Epithelial Cell Growth, Matrix Formation, and Retention of Differentiated Function. <i>Tissue Engineering - Part A</i> , 2015, 21, 1611-1620.	1.6	24
23	Umbilical cord blood-derived non-hematopoietic stem cells retrieved and expanded on bone marrow-derived extracellular matrix display pluripotent characteristics. <i>Stem Cell Research and Therapy</i> , 2016, 7, 176.	2.4	22
24	Native extracellular matrix, synthesized <i>ex vivo</i> by bone marrow or adipose stromal cells, faithfully directs mesenchymal stem cell differentiation. <i>Matrix Biology Plus</i> , 2020, 8, 100044.	1.9	21
25	Dissection of the sets of genes that control the behavior of biglycan-deficient pre-osteoblasts using oligonucleotide microarrays. <i>Bone</i> , 2005, 37, 192-203.	1.4	14
26	Culture on a native bone marrow-derived extracellular matrix restores the pancreatic islet basement membrane, preserves islet function, and attenuates islet immunogenicity. <i>FASEB Journal</i> , 2020, 34, 8044-8056.	0.2	9
27	Matrix-bound Cyr61/CCN1 is required to retain the properties of the bone marrow mesenchymal stem cell niche but is depleted with aging. <i>Matrix Biology</i> , 2022, 111, 108-132.	1.5	9
28	Organ-specific extracellular matrix directs trans-differentiation of mesenchymal stem cells and formation of salivary gland-like organoids <i>in vivo</i> . <i>Stem Cell Research and Therapy</i> , 2022, 13, .	2.4	5
29	Maintenance and Culture of MSCs. , 2019, , 39-61.		4
30	Stem Cell-Based Restoration of Salivary Gland Function. , 2019, , 345-366.		2
31	Oral and Craniofacial Stem Cells: An Untapped Source for Neural Tissue Regeneration. <i>Tissue Engineering - Part A</i> , 2020, 26, 935-938.	1.6	2
32	Exercise Can Reverse the Phenotype of Biglycan Deficient Mice. , 2003, , .		1
33	Single-Walled Carbon Nanotube Scaffolds Promote Stem Cell Differentiation into Bone Forming Cells. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1018, 1.	0.1	0
34	What Can We Learn From This Book?. , 2019, , 3-13.		0
35	Use of MSCs in Antiaging Strategies. , 2019, , 443-461.		0
36	The role and mechanisms of bone morphogenetic protein 4 and 2 (BMP-4 and BMP-2) in postnatal skeletal development. , 2008, , 179-197.		0

#	ARTICLE	IF	CITATIONS
37	In vitro effect of an oral spray and mouthrinses on dual species cariogenic bacteria biofilm.. American Journal of Dentistry, 2022, 35, 103-108.	0.1	0