Xiao-Dong Chen

List of Publications by Year
in descending order

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37 papers	2,683 citations	304743 22 h-index	477307 29 g-index
37 all docs	37 docs citations	37 times ranked	3608 citing authors

#	Article	IF	Citations
1	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
2	Matrix-bound Cyr61/CCN1 is required to retain the properties of the bone marrow mesenchymal stem cell niche but is depleted with aging. Matrix Biology, 2022, 111, 108-132.	3.6	9
3	Organ-specific extracellular matrix directs trans-differentiation of mesenchymal stem cells and formation of salivary gland-like organoids in vivo. Stem Cell Research and Therapy, 2022, 13, .	5.5	5
4	Oral and Craniofacial Stem Cells: An Untapped Source for Neural Tissue Regeneration. Tissue Engineering - Part A, 2020, 26, 935-938.	3.1	2
5	Native extracellular matrix, synthesized ex vivo by bone marrow or adipose stromal cells, faithfully directs mesenchymal stem cell differentiation. Matrix Biology Plus, 2020, 8, 100044.	3.5	21
6	Culture on a native bone marrowâ€derived extracellular matrix restores the pancreatic islet basement membrane, preserves islet function, and attenuates islet immunogenicity. FASEB Journal, 2020, 34, 8044-8056.	0.5	9
7	What Can We Learn From This Book?. , 2019, , 3-13.		0
8	Maintenance and Culture of MSCs. , 2019, , 39-61.		4
9	Stem Cellâ€“Based Restoration of Salivary Gland Function. , 2019, , 345-366.		2
10	Use of MSCs in Antiaging Strategies. , 2019, , 443-461.		0
11	Restoring the quantity and quality of elderly human mesenchymal stem cells for autologous cell-based therapies. Stem Cell Research and Therapy, 2017, 8, 239.	5.5	85
12	Umbilical cord blood-derived non-hematopoietic stem cells retrieved and expanded on bone marrow-derived extracellular matrix display pluripotent characteristics. Stem Cell Research and Therapy, 2016, 7, 176.	5.5	22
13	One size does not fit all: developing a cell-specific niche for in vitro study of cell behavior. Matrix Biology, 2016, 52-54, 426-441.	3.6	85
14	Native extracellular matrix preserves mesenchymal stem cell â€œstemnessâ€•and differentiation potential under serum-free culture conditions. Stem Cell Research and Therapy, 2015, 6, 235.	5.5	69
15	Silk Fibroin Scaffolds Promote Formation of the Ex Vivo Niche for Salivary Gland Epithelial Cell Growth, Matrix Formation, and Retention of Differentiated Function. Tissue Engineering - Part A, 2015, 21, 1611-1620.	3.1	24
16	Stromal-Cell-Derived Extracellular Matrix Promotes the Proliferation and Retains the Osteogenic Differentiation Capacity of Mesenchymal Stem Cells on Three-Dimensional Scaffolds. Tissue Engineering - Part C: Methods, 2015, 21, 171-181.	2.1	59
17	Bmp2 gene in osteoblasts of periosteum and trabecular bone links bone formation to vascularization and mesenchymal stem cells. Journal of Cell Science, 2013, 126, 4085-98.	2.0	63
18	Biomimetic Collagenâ€“Hydroxyapatite Composite Fabricated via a Novel Perfusion-Flow Mineralization Technique. Tissue Engineering - Part C: Methods, 2013, 19, 487-496.	2.1	66

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19	Characterization of bone marrow derived mesenchymal stem cells in suspension. Stem Cell Research and Therapy, 2012, 3, 40.	5.5	77
20	Rescuing replication and osteogenesis of aged mesenchymal stem cells by exposure to a young extracellular matrix. FASEB Journal, 2011, 25, 1474-1485.	0.5	181
21	Estrogens attenuate oxidative stress and the differentiation and apoptosis of osteoblasts by DNA-binding-independent actions of the ERÎ±. Journal of Bone and Mineral Research, 2010, 25, 769-781.	2.8	99
22	Extracellular matrix provides an optimal niche for the maintenance and propagation of mesenchymal stem cells. Birth Defects Research Part C: Embryo Today Reviews, 2010, 90, 45-54.	3.6	82
23	Reconstitution of Marrow-Derived Extracellular Matrix Ex Vivo: A Robust Culture System for Expanding Large-Scale Highly Functional Human Mesenchymal Stem Cells. Stem Cells and Development, 2010, 19, 1095-1107.	2.1	180
24	The role and mechanisms of bone morphogenetic protein 4 and 2 (BMP-4 and BMP-2) in postnatal skeletal development. , 2008, , 179-197.		0
25	Single-Walled Carbon Nanotube Scaffolds Promote Stem Cell Differentiation into Bone Forming Cells. Materials Research Society Symposia Proceedings, 2007, 1018, 1.	0.1	0
26	Extracellular Matrix Made by Bone Marrow Cells Facilitates Expansion of Marrow-Derived Mesenchymal Progenitor Cells and Prevents Their Differentiation Into Osteoblasts. Journal of Bone and Mineral Research, 2007, 22, 1943-1956.	2.8	319
27	The mechanical phenotype of biglycan-deficient mice is bone- and gender-specific. Bone, 2006, 39, 106-116.	2.9	44
28	Extracellular Matrix Proteoglycans Control the Fate of Bone Marrow Stromal Cells. Journal of Biological Chemistry, 2005, 280, 30481-30489.	3.4	220
29	Dissection of the sets of genes that control the behavior of biglycan-deficient pre-osteoblasts using oligonucleotide microarrays. Bone, 2005, 37, 192-203.	2.9	14
30	A crucial role of caspase-3 in osteogenic differentiation of bone marrow stromal stem cells. Journal of Clinical Investigation, 2004, 114, 1704-1713.	8.2	221
31	The small leucineâ€rich proteoglycan biglycan modulates BMPâ€4â€induced osteoblast differentiation. FASEB Journal, 2004, 18, 948-958.	0.5	255
32	Biglycan Deficiency Interferes With Ovariectomy-Induced Bone Loss. Journal of Bone and Mineral Research, 2003, 18, 2152-2158.	2.8	46
33	Exercise Can Reverse the Phenotype of Biglycan Deficient Mice. , 2003, , .		1
34	Age-Related Osteoporosis in Biglycan-Deficient Mice Is Related to Defects in Bone Marrow Stromal Cells. Journal of Bone and Mineral Research, 2002, 17, 331-340.	2.8	134
35	Biglycan knockout mice: New models for musculoskeletal diseases. Glycoconjugate Journal, 2002, 19, 257-262.	2.7	151
36	The Urokinase Plasminogen Activator Receptorâ€“Associated Protein/Endo180 Is Coexpressed with Its Interaction Partners Urokinase Plasminogen Activator Receptor and Matrix Metalloprotease-13 during Osteogenesis. Laboratory Investigation, 2001, 81, 1403-1414.	3.7	62

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37	Thy-1 Antigen Expression by Cells in the Osteoblast Lineage. Journal of Bone and Mineral Research, 1999, 14, 362-375.	2.8	72