Cindy C Shu

List of Publications by Year
in descending order

26 papers	799 citations	471509 17 h-index	552781 26 g-index
29 all docs	29 docs citations	29 times ranked	1045 citing authors

#	Article	IF	Citations
1	Multifidus Muscle Changes After Back Injury Are Characterized by Structural Remodeling of Muscle, Adipose and Connective Tissue, but Not Muscle Atrophy. Spine, 2015, 40, 1057-1071.	2.0	105
2	The cartilage extracellular matrix as a transient developmental scaffold for growth plate maturation. Matrix Biology, 2016, 52-54, 363-383.	3.6	67
3	Can Proinflammatory Cytokine Gene Expression Explain Multifidus Muscle Fiber Changes After an Intervertebral Disc Lesion?. Spine, 2014, 39, 1010-1017.	2.0	54
4	Mechanical Destabilization Induced by Controlled Annular Incision of the Intervertebral Disc Dysregulates Metalloproteinase Expression and Induces Disc Degeneration. Spine, 2012, 37, 18-25.	2.0	53
5	Macrophage polarization contributes to local inflammation and structural change in the multifidus muscle after intervertebral disc injury. European Spine Journal, 2018, 27, 1744-1756.	2.2	53
6	Comparative immunolocalisation of perlecan with collagen II and aggrecan in human foetal, newborn and adult ovine joint tissues demonstrates perlecan as an early developmental chondrogenic marker. Histochemistry and Cell Biology, 2010, 134, 251-263.	1.7	51
7	Ablation of Perlecan Domain 1 Heparan Sulfate Reduces Progressive Cartilage Degradation, Synovitis, and Osteophyte Size in a Preclinical Model of Posttraumatic Osteoarthritis. Arthritis and Rheumatology, 2016, 68, 868-879.	5.6	46
8	A Histopathological Scheme for the Quantitative Scoring of Intervertebral Disc Degeneration and the Therapeutic Utility of Adult Mesenchymal Stem Cells for Intervertebral Disc Regeneration. International Journal of Molecular Sciences, 2017, 18, 1049.	4.1	38
9	Allogeneic Mesenchymal Precursor Cells Promote Healing in Postero-lateral Annular Lesions and Improve Indices of Lumbar Intervertebral Disc Degeneration in an Ovine Model. Spine, 2016, 41, 1331-1339.	2.0	36
10	Use of FGF-2 and FGF-18 to direct bone marrow stromal stem cells to chondrogenic and osteogenic lineages. Future Science OA, 2016, 2, FSO142.	1.9	34
11	The relationship between synovial inflammation, structural pathology, and pain in post-traumatic osteoarthritis: differential effect of stem cell and hyaluronan treatment. Arthritis Research and Therapy, 2020, 22, 29.	3.5	31
12	Hyaluronan oligosaccharides stimulate matrix metalloproteinase and anabolic gene expression<i>in vitro</i>by intervertebral disc cells and annular repair<i>in vivo</i>. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e216-e226.	2.7	28
13	Mesenchymal Stem Cell Treatment of Intervertebral Disc Lesion Prevents Fatty Infiltration and Fibrosis of the Multifidus Muscle, but not Cytokine and Muscle Fiber Changes. Spine, 2016, 41, 1208-1217.	2.0	24
14	Efficacy of administered mesenchymal stem cells in the initiation and coâ€ordination of repair processes by resident disc cells in an ovine (<scp><i>Ovis aries</i></scp>) large destabilizing lesion model of experimental disc degeneration. JOR Spine, 2018, 1, e1037.	3.2	24
15	Catabolism of Fibromodulin in Developmental Rudiment and Pathologic Articular Cartilage Demonstrates Novel Roles for MMP-13 and ADAMTS-4 in C-terminal Processing of SLRPs. International Journal of Molecular Sciences, 2019, 20, 579.	4.1	23
16	The ovine newborn and human foetal intervertebral disc contain perlecan and aggrecan variably substituted with native 7D4 CS sulphation motif: spatiotemporal immunolocalisation and co-distribution with Notch-1 in the human foetal disc. Glycoconjugate Journal, 2013, 30, 717-725.	2.7	21
17	Comparative immunolocalisation of perlecan, heparan sulphate, fibroblast growth factor-18, and fibroblast growth factor receptor-3 and their prospective roles in chondrogenic and osteogenic development of the human foetal spine. European Spine Journal, 2013, 22, 1774-1784.	2.2	17
18	The heparan sulphate deficient Hspg2 exon 3 null mouse displays reduced deposition of TGF-Î^{2}1 in skin compared to C57BL/6 wild type mice. Journal of Molecular Histology, 2016, 47, 365-374.	2.2	17

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19	Spatiotemporal Expression of 3-B-3(âˆ’) and 7-D-4 Chondroitin Sulfation, Tissue Remodeling, and Attempted Repair in an Ovine Model of Intervertebral Disc Degeneration. Cartilage, 2020, 11, 234-250.	2.7	13
20	Confocal microscopy demonstrates association of LTBP-2 in fibrillin-1 microfibrils and colocalisation with perlecan in the disc cell pericellular matrix. Tissue and Cell, 2014, 46, 185-197.	2.2	12
21	Intra-articular Treatment of Osteoarthritis with Diclofenac-Conjugated Polymer Reduces Inflammation and Pain. ACS Applied Bio Materials, 2019, 2, 2822-2832.	4.6	12
22	The adolescent idiopathic scoliotic IVD displays advanced aggrecanolysis and a glycosaminoglycan composition similar to that of aged human and ovine IVDs. European Spine Journal, 2018, 27, 2102-2113.	2.2	11
23	Elevated hypertrophy, growth plate maturation, glycosaminoglycan deposition, and exostosis formation in the <i>Hspg2</i> exon 3 null mouse intervertebral disc. Biochemical Journal, 2019, 476, 225-243.	3.7	8
24	Muscle spindles of the multifidus muscle undergo structural change after intervertebral disc degeneration. European Spine Journal, 2022, 31, 1879-1888.	2.2	8
25	Achilles and tail tendons of perlecan exon 3 null heparan sulphate deficient mice display surprising improvement in tendon tensile properties and altered collagen fibril organisation compared to C57BL/6 wild type mice. PeerJ, 2018, 6, e5120.	2.0	7
26	Flow Cytometry Analysis of Immune Cell Subsets within the Murine Spleen, Bone Marrow, Lymph Nodes and Synovial Tissue in an Osteoarthritis Model. Journal of Visualized Experiments, 2020, , .	0.3	6