

# Rocky S Tuan

## List of Publications by Year in descending order

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Version: 2024-02-01

223  
papers

17,689  
citations

<sup>17776</sup>  
65  
h-index

<sup>17891</sup>  
125  
g-index

229  
all docs

229  
docs citations

229  
times ranked

21311  
citing authors

#	ARTICLE	IF	CITATIONS
1	A High-Throughput Mechanical Activator for Cartilage Engineering Enables Rapid Screening of in vitro Response of Tissue Models to Physiological and Supra-Physiological Loads. <i>Cells Tissues Organs</i> , 2022, 211, 670-688.	1.3	6
2	Efficient fabrication of monodisperse hepatocyte spheroids and encapsulation in hybrid hydrogel with controllable extracellular matrix effect. <i>Biofabrication</i> , 2022, 14, 015002.	3.7	6
3	Dextran sulfate-amplified extracellular matrix deposition promotes osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2022, 140, 163-177.	4.1	14
4	Engineering microparticles based on solidified stem cell secretome with an augmented pro-angiogenic factor portfolio for therapeutic angiogenesis. <i>Bioactive Materials</i> , 2022, 17, 526-541.	8.6	5
5	Human Mesenchymal Stem Cell-Derived Miniature Joint System for Disease Modeling and Drug Testing. <i>Advanced Science</i> , 2022, 9, e2105909.	5.6	22
6	Tendon tissue engineering: Current progress towards an optimized tenogenic differentiation protocol for human stem cells. <i>Acta Biomaterialia</i> , 2022, 145, 25-42.	4.1	15
7	Role of synovial lymphatic function in osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2022, , .	0.6	7
8	Paediatric knee anterolateral capsule does not contain a distinct ligament: analysis of histology, immunohistochemistry and gene expression. <i>Journal of ISAKOS</i> , 2021, 6, 82-87.	1.1	4
9	Hyaluronic acid drives mesenchymal stromal cell-derived extracellular matrix assembly by promoting fibronectin fibrillogenesis. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7205-7215.	2.9	12
10	Current Models for Development of Disease-Modifying Osteoarthritis Drugs. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 124-138.	1.1	33
11	Enhancing the potential of aged human articular chondrocytes for high-quality cartilage regeneration. <i>FASEB Journal</i> , 2021, 35, e21410.	0.2	5
12	Load-induced regulation of tendon homeostasis by SPARC, a genetic predisposition factor for tendon and ligament injuries. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	25
13	Development of a large animal rabbit model for chronic periprosthetic joint infection. <i>Bone and Joint Research</i> , 2021, 10, 156-165.	1.3	9
14	Histone Modifications and Chondrocyte Fate: Regulation and Therapeutic Implications. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 626708.	1.8	9
15	An in vitro chondro-osteo-vascular triphasic model of the osteochondral complex. <i>Biomaterials</i> , 2021, 272, 120773.	5.7	27
16	Engineering multi-tissue units for regenerative Medicine: Bone-tendon-muscle units of the rotator cuff. <i>Biomaterials</i> , 2021, 272, 120789.	5.7	32
17	The Effects of Macrophage Phenotype on Osteogenic Differentiation of MSCs in the Presence of Polyethylene Particles. <i>Biomedicines</i> , 2021, 9, 499.	1.4	11
18	Caveolin-1 mediates soft scaffold-enhanced adipogenesis of human mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2021, 12, 347.	2.4	11

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19	Wdpcp regulates cellular proliferation and differentiation in the developing limb via hedgehog signaling. BMC Developmental Biology, 2021, 21, 10.	2.1	3
20	Reduction of mechanical loading in tendons induces heterotopic ossification and activation of the $\beta$ -catenin signaling pathway. Journal of Orthopaedic Translation, 2021, 29, 42-50.	1.9	6
21	Engineering Musculoskeletal Grafts for Multi-Tissue Unit Repair: Lessons From Developmental Biology and Wound Healing. Frontiers in Physiology, 2021, 12, 691954.	1.3	7
22	Sequential growth factor exposure of human Adipogenic MSCs improves chondrogenic differentiation in an osteochondral biphasic implant. Experimental and Therapeutic Medicine, 2021, 22, 1282.	0.8	2
23	Graphene oxide-functionalized nanocomposites promote osteogenesis of human mesenchymal stem cells via enhancement of BMP-SMAD1/5 signaling pathway. Biomaterials, 2021, 277, 121082.	5.7	41
24	Cell-laden injectable microgels: Current status and future prospects for cartilage regeneration. Biomaterials, 2021, 279, 121214.	5.7	30
25	Macrophages Modulate the Function of MSC- and iPSC-Derived Fibroblasts in the Presence of Polyethylene Particles. International Journal of Molecular Sciences, 2021, 22, 12837.	1.8	2
26	American Society for Bone and Mineral Research Orthopaedic Research Society Joint Task Force Report on Cell-Based Therapies. Journal of Bone and Mineral Research, 2020, 35, 3-17.	3.1	11
27	Incorporating silica-coated graphene in bioceramic nanocomposites to simultaneously enhance mechanical and biological performance. Journal of Biomedical Materials Research - Part A, 2020, 108, 1016-1027.	2.1	9
28	Gel and cells: A promising reparative strategy for degenerated intervertebral discs. EBioMedicine, 2020, 55, 102756.	2.7	0
29	Antimicrobial activity of mesenchymal stem cells against Staphylococcus aureus. Stem Cell Research and Therapy, 2020, 11, 293.	2.4	36
30	Tendon Tissue-Engineering Scaffolds. , 2020, , 1351-1371.		4
31	Dead muscle tissue promotes dystrophic calcification by lowering circulating TGF- $\beta$ 1 level. Bone and Joint Research, 2020, 9, 742-750.	1.3	8
32	Adipose Tissue-Derived Stem Cells Retain Their Adipocyte Differentiation Potential in Three-Dimensional Hydrogels and Bioreactors. Biomolecules, 2020, 10, 1070.	1.8	24
33	Pathogenesis of Osteoarthritis: Risk Factors, Regulatory Pathways in Chondrocytes, and Experimental Models. Biology, 2020, 9, 194.	1.3	111
34	Injectable BMP-2 gene-activated scaffold for the repair of cranial bone defect in mice. Stem Cells Translational Medicine, 2020, 9, 1631-1642.	1.6	20
35	Mechanism of traumatic heterotopic ossification: In search of injury-induced osteogenic factors. Journal of Cellular and Molecular Medicine, 2020, 24, 11046-11055.	1.6	21
36	Potential of Soluble Decellularized Extracellular Matrix for Musculoskeletal Tissue Engineering Comparison of Various Mesenchymal Tissues. Frontiers in Cell and Developmental Biology, 2020, 8, 581972.	1.8	17

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37	Endothelial cells support osteogenesis in an in vitro vascularized bone model developed by 3D bioprinting. <i>Biofabrication</i> , 2020, 12, 025013.	3.7	78
38	Acceleration of chondrogenic differentiation of human mesenchymal stem cells by sustained growth factor release in 3D graphene oxide incorporated hydrogels. <i>Acta Biomaterialia</i> , 2020, 105, 44-55.	4.1	58
39	Mesenchymal stem cells in musculoskeletal tissue engineering. , 2020, , 883-915.		2
40	TGF- $\beta$ 1 plays a protective role in glucocorticoid-induced dystrophic calcification. <i>Bone</i> , 2020, 136, 115355.	1.4	7
41	Macrophage Effects on Mesenchymal Stem Cell Osteogenesis in a Three-Dimensional In Vitro Bone Model. <i>Tissue Engineering - Part A</i> , 2020, 26, 1099-1111.	1.6	31
42	Tendon-derived extracellular matrix induces mesenchymal stem cell tenogenesis via an integrin/transforming growth factor cross-talk mediated mechanism. <i>FASEB Journal</i> , 2020, 34, 8172-8186.	0.2	36
43	Subchondral Bone Remodeling: A Therapeutic Target for Osteoarthritis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 607764.	1.8	64
44	American Society for Bone and Mineral Research Orthopaedic Research Society Joint Task Force Report on Cell-Based Therapies Secondary Publication. <i>Journal of Orthopaedic Research</i> , 2020, 38, 485-502.	1.2	7
45	Tissue Engineering for Musculoskeletal Regeneration and Disease Modeling. <i>Handbook of Experimental Pharmacology</i> , 2020, 265, 235-268.	0.9	9
46	Decellularized bone extracellular matrix in skeletal tissue engineering. <i>Biochemical Society Transactions</i> , 2020, 48, 755-764.	1.6	29
47	Bone marrow mesenchymal stem cells: Aging and tissue engineering applications to enhance bone healing. <i>Biomaterials</i> , 2019, 203, 96-110.	5.7	234
48	Efficient in vivo bone formation by BMP-2 engineered human mesenchymal stem cells encapsulated in a projection stereolithographically fabricated hydrogel scaffold. <i>Stem Cell Research and Therapy</i> , 2019, 10, 254.	2.4	55
49	Dynamic Compressive Loading Improves Cartilage Repair in an In Vitro Model of Microfracture: Comparison of 2 Mechanical Loading Regimens on Simulated Microfracture Based on Fibrin Gel Scaffolds Encapsulating Connective Tissue Progenitor Cells. <i>American Journal of Sports Medicine</i> , 2019, 47, 2188-2199.	1.9	31
50	Robust bone regeneration through endochondral ossification of human mesenchymal stem cells within their own extracellular matrix. <i>Biomaterials</i> , 2019, 218, 119336.	5.7	40
51	Role of NGF-TrkA signaling in calcification of articular chondrocytes. <i>FASEB Journal</i> , 2019, 33, 10231-10239.	0.2	23
52	A Cellularized Biphasic Implant Based on a Bioactive Silk Fibroin Promotes Integration and Tissue Organization during Osteochondral Defect Repair in a Porcine Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5145.	1.8	11
53	Condensation-Driven Chondrogenesis of Human Mesenchymal Stem Cells within Their Own Extracellular Matrix: Formation of Cartilage with Low Hypertrophy and Physiologically Relevant Mechanical Properties. <i>Advanced Biology</i> , 2019, 3, e1900229.	3.0	8
54	Point-of-Care Procedure for Enhancement of Meniscal Healing in a Goat Model Utilizing Infrapatellar Fat Pad-Derived Stromal Vascular Fraction Cells Seeded in Photocrosslinkable Hydrogel. <i>American Journal of Sports Medicine</i> , 2019, 47, 3396-3405.	1.9	18

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55	Muscle injury promotes heterotopic ossification by stimulating local bone morphogenetic protein-7 production. <i>Journal of Orthopaedic Translation</i> , 2019, 18, 142-153.	1.9	24
56	Optimization of photocrosslinked gelatin/hyaluronic acid hybrid scaffold for the repair of cartilage defect. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1418-1429.	1.3	59
57	A Bioactive Cartilage Graft of IGF1-Transduced Adipose Mesenchymal Stem Cells Embedded in an Alginate/Bovine Cartilage Matrix Tridimensional Scaffold. <i>Stem Cells International</i> , 2019, 2019, 1-15.	1.2	5
58	Conduits harnessing spatially controlled cell-secreted neurotrophic factors improve peripheral nerve regeneration. <i>Biomaterials</i> , 2019, 203, 86-95.	5.7	35
59	Osteochondral Tissue Chip Derived From iPSCs: Modeling OA Pathologies and Testing Drugs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 411.	2.0	71
60	Biomaterials and Advanced Biofabrication Techniques in hiPSCs Based Neuromyopathic Disease Modeling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 373.	2.0	6
61	Modeling appendicular skeletal cartilage development with modified high-density micromass cultures of adult human bone marrow-derived mesenchymal progenitor cells. <i>Stem Cell Research and Therapy</i> , 2019, 10, 388.	2.4	6
62	Enhanced repair of meniscal hoop structure injuries using an aligned electrospun nanofibrous scaffold combined with a mesenchymal stem cell-derived tissue engineered construct. <i>Biomaterials</i> , 2019, 192, 346-354.	5.7	53
63	Enhancing chondrogenesis and mechanical strength retention in physiologically relevant hydrogels with incorporation of hyaluronic acid and direct loading of TGF- $\beta$ 2. <i>Acta Biomaterialia</i> , 2019, 83, 167-176.	4.1	57
64	Optimizing Clinical Use of Biologics in Orthopaedic Surgery: Consensus Recommendations From the 2018 AAOS/NIH U-13 Conference. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2019, 27, e50-e63.	1.1	122
65	The effect of adipose-derived stem cells on enthesis healing after repair of acute and chronic massive rotator cuff tears in rats. <i>Journal of Shoulder and Elbow Surgery</i> , 2019, 28, 654-664.	1.2	46
66	Engineering hyaline cartilage from mesenchymal stem cells with low hypertrophy potential via modulation of culture conditions and Wnt/ $\beta$ -catenin pathway. <i>Biomaterials</i> , 2019, 192, 569-578.	5.7	58
67	Clinical Applications of Bone Tissue Engineering in Orthopedic Trauma. <i>Current Pathobiology Reports</i> , 2018, 6, 99-108.	1.6	14
68	Chondroinductive factor-free chondrogenic differentiation of human mesenchymal stem cells in graphene oxide-incorporated hydrogels. <i>Journal of Materials Chemistry B</i> , 2018, 6, 908-917.	2.9	38
69	Tissue Repair and Epimorphic Regeneration: an Overview. <i>Current Pathobiology Reports</i> , 2018, 6, 61-69.	1.6	38
70	Mesenchymal stem cell-derived extracellular matrix enhances chondrogenic phenotype of and cartilage formation by encapsulated chondrocytes in vitro and in vivo. <i>Acta Biomaterialia</i> , 2018, 69, 71-82.	4.1	102
71	Engineering in-vitro stem cell-based vascularized bone models for drug screening and predictive toxicology. <i>Stem Cell Research and Therapy</i> , 2018, 9, 112.	2.4	62
72	Porous Poly(vinyl alcohol)-Based Hydrogel for Knee Meniscus Functional Repair. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1518-1527.	2.6	16

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73	Efficacy of thermoresponsive, photocrosslinkable hydrogels derived from decellularized tendon and cartilage extracellular matrix for cartilage tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e159-e170.	1.3	50
74	Neurotrophically Induced Mesenchymal Progenitor Cells Derived from Induced Pluripotent Stem Cells Enhance Neuritogenesis via Neurotrophin and Cytokine Production. <i>Stem Cells Translational Medicine</i> , 2018, 7, 45-58.	1.6	24
75	3D uniaxial mechanical stimulation induces tenogenic differentiation of tendon-derived stem cells through a PI3K/AKT signaling pathway. <i>FASEB Journal</i> , 2018, 32, 4804-4814.	0.2	50
76	Effect of Platelet-Rich Plasma on Chondrogenic Differentiation of Adipose- and Bone Marrow-Derived Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2018, 24, 1432-1443.	1.6	36
77	Conservative Management and Biological Treatment Strategies: Proceedings of the International Consensus Meeting on Cartilage Repair of the Ankle. <i>Foot and Ankle International</i> , 2018, 39, 9S-15S.	1.1	49
78	Influence of cholesterol/caveolin-1/caveolae homeostasis on membrane properties and substrate adhesion characteristics of adult human mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2018, 9, 86.	2.4	40
79	Differences in neural stem cell identity and differentiation capacity drive divergent regenerative outcomes in lizards and salamanders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8256-E8265.	3.3	25
80	Traumatized muscle-derived multipotent progenitor cells recruit endothelial cells through vascular endothelial growth factor-A action. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3038-3047.	1.3	2
81	The Rotator Cuff Organ: Integrating Developmental Biology, Tissue Engineering, and Surgical Considerations to Treat Chronic Massive Rotator Cuff Tears. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 318-335.	2.5	25
82	A unified birth defects research. <i>Birth Defects Research</i> , 2017, 109, 7-7.	0.8	0
83	Region-Specific Effect of the Decellularized Meniscus Extracellular Matrix on Mesenchymal Stem Cell-Based Meniscus Tissue Engineering. <i>American Journal of Sports Medicine</i> , 2017, 45, 604-611.	1.9	61
84	Tissue-specific bioactivity of soluble tendon-derived and cartilage-derived extracellular matrices on adult mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 133.	2.4	91
85	Chondrogenesis of human bone marrow mesenchymal stem cells in 3-dimensional, photocrosslinked hydrogel constructs: Effect of cell seeding density and material stiffness. <i>Acta Biomaterialia</i> , 2017, 58, 302-311.	4.1	85
86	Birth Defects: Etiology, screening, and detection. <i>Birth Defects Research</i> , 2017, 109, 723-724.	0.8	3
87	Aging of the skeletal muscle extracellular matrix drives a stem cell fibrogenic conversion. <i>Aging Cell</i> , 2017, 16, 518-528.	3.0	172
88	One-Step Fabrication of Bone Morphogenetic Protein-2 Gene-Activated Porous Poly-L-Lactide Scaffold for Bone Induction. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 7, 50-59.	1.8	13
89	Projection Stereolithographic Fabrication of BMP-2 Gene-activated Matrix for Bone Tissue Engineering. <i>Scientific Reports</i> , 2017, 7, 11327.	1.6	27
90	Osteoblast Differentiation and Bone Matrix Formation <i>In Vivo</i> and <i>In Vitro</i> . <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 268-280.	2.5	329

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91	Anatomical region-dependent enhancement of 3-dimensional chondrogenic differentiation of human mesenchymal stem cells by soluble meniscus extracellular matrix. <i>Acta Biomaterialia</i> , 2017, 49, 140-151.	4.1	60
92	Tendon-Derived Extracellular Matrix Enhances Transforming Growth Factor- $\beta$ 3-Induced Tenogenic Differentiation of Human Adipose-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 166-176.	1.6	50
93	Lizard tail regeneration as an instructive model of enhanced healing capabilities in an adult amniote. <i>Connective Tissue Research</i> , 2017, 58, 145-154.	1.1	54
94	Infrapatellar fat pad aggravates degeneration of acute traumatized cartilage: a possible role for interleukin-6. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 138-145.	0.6	14
95	Rapidly dissociated autologous meniscus tissue enhances meniscus healing: An <i>in vitro</i> study. <i>Connective Tissue Research</i> , 2017, 58, 355-365.	1.1	9
96	Cartilage and Muscle Cell Fate and Origins during Lizard Tail Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 70.	2.0	28
97	Neurotrophic support by traumatized muscle-derived multipotent progenitor cells: Role of endothelial cells and Vascular Endothelial Growth Factor-A. <i>Stem Cell Research and Therapy</i> , 2017, 8, 226.	2.4	12
98	Distributed and Lumped Parameter Models for the Characterization of High Throughput Bioreactors. <i>PLoS ONE</i> , 2016, 11, e0162774.	1.1	16
99	Lizard tail skeletal regeneration combines aspects of fracture healing and blastema-based regeneration. <i>Development (Cambridge)</i> , 2016, 143, 2946-57.	1.2	53
100	Catabolic effects of endothelial cell-derived microparticles on disc cells: Implications in intervertebral disc neovascularization and degeneration. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1466-1474.	1.2	14
101	Human Cartilage-Derived Progenitor Cells From Committed Chondrocytes for Efficient Cartilage Repair and Regeneration. <i>Stem Cells Translational Medicine</i> , 2016, 5, 733-744.	1.6	145
102	Secreted trophic factors of mesenchymal stem cells support neurovascular and musculoskeletal therapies. <i>Stem Cell Research and Therapy</i> , 2016, 7, 131.	2.4	259
103	From embryonic development to human diseases: The functional role of caveolae/caveolin. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2016, 108, 45-64.	3.6	24
104	Effect of adipose-derived stromal cells and BMP12 on intrasynovial tendon repair: A biomechanical, biochemical, and proteomics study. <i>Journal of Orthopaedic Research</i> , 2016, 34, 630-640.	1.2	31
105	Augmented repair of radial meniscus tear with biomimetic electrospun scaffold: an <i>in vitro</i> mechanical analysis. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 23.	0.8	16
106	Prenatal substance use and developmental disorders: Overview and highlights. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2016, 108, 106-107.	3.6	0
107	Prenatal exposure to environmental factors and congenital limb defects. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2016, 108, 243-273.	3.6	24
108	The function and interrelationship between GDF5 and ERG-010 during chondrogenesis <i>in vitro</i> . <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2016, 52, 182-192.	0.7	2



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109	Antibiotic-tolerant <i>Staphylococcus aureus</i> Biofilm Persists on Arthroplasty Materials. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 1649-1656.	0.7	76
110	Multilayered polycaprolactone/gelatin fiber-hydrogel composite for tendon tissue engineering. <i>Acta Biomaterialia</i> , 2016, 35, 68-76.	4.1	164
111	Stem Cells in Skeletal Tissue Engineering: Technologies and Models. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 453-474.	0.6	11
112	Musculoskeletal regeneration research network: A global initiative. <i>Journal of Orthopaedic Translation</i> , 2015, 3, 160-165.	1.9	1
113	Cartilage stem/progenitor cells are activated in osteoarthritis via interleukin-1 $\beta$ /nerve growth factor signaling. <i>Arthritis Research and Therapy</i> , 2015, 17, 327.	1.6	40
114	Nascent osteoblast matrix inhibits osteogenesis of human mesenchymal stem cells in vitro. <i>Stem Cell Research and Therapy</i> , 2015, 6, 258.	2.4	15
115	Promotion of human mesenchymal stem cell osteogenesis by PI3-kinase/Akt signaling, and the influence of caveolin-1/cholesterol homeostasis. <i>Stem Cell Research and Therapy</i> , 2015, 6, 238.	2.4	90
116	Expression of Concern: Human amniotic epithelial cells can differentiate into granulosa cells and restore folliculogenesis in a mouse model of chemotherapy-induced premature ovarian failure. <i>Stem Cell Research and Therapy</i> , 2015, 6, 240.	2.4	2
117	Projection Stereolithographic Fabrication of Human Adipose Stem Cell-Incorporated Biodegradable Scaffolds for Cartilage Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 115.	2.0	61
118	Platelet-Rich Plasma Inhibits Mechanically Induced Injury in Chondrocytes. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2015, 31, 1142-1150.	1.3	22
119	Lizard tail regeneration: regulation of two distinct cartilage regions by Indian hedgehog. <i>Developmental Biology</i> , 2015, 399, 249-262.	0.9	63
120	Characterization of Tissue Response to Impact Loads Delivered Using a Hand-Held Instrument for Studying Articular Cartilage Injury. <i>Cartilage</i> , 2015, 6, 226-232.	1.4	27
121	In Vitro Repair of Meniscal Radial Tear Using Aligned Electrospun Nanofibrous Scaffold. <i>Tissue Engineering - Part A</i> , 2015, 21, 2066-2075.	1.6	36
122	Origin and function of cartilage stem/progenitor cells in osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2015, 11, 206-212.	3.5	307
123	Characterization of bone marrow-derived mesenchymal stem cells in aging. <i>Bone</i> , 2015, 70, 37-47.	1.4	227
124	High efficiency transfection of embryonic limb mesenchyme with plasmid DNA using square wave pulse electroporation and sucrose buffer. <i>BioTechniques</i> , 2014, 56, 85-89.	0.8	10
125	Cellular therapy in bone-tendon interface regeneration. <i>Organogenesis</i> , 2014, 10, 13-28.	0.4	85
126	Functional Comparison of Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Cells and Bone Marrow-Derived Mesenchymal Stromal Cells from the Same Donor. <i>Stem Cells and Development</i> , 2014, 23, 1594-1610.	1.1	144



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127	Concise Review: The Surface Markers and Identity of Human Mesenchymal Stem Cells. <i>Stem Cells</i> , 2014, 32, 1408-1419.	1.4	833
128	Biology of platelet-rich plasma and its clinical application in cartilage repair. <i>Arthritis Research and Therapy</i> , 2014, 16, 204.	1.6	222
129	Polymerase Chain Reaction molecular diagnostic technology for monitoring chronic osteomyelitis. <i>Journal of Experimental Orthopaedics</i> , 2014, 1, 9.	0.8	11
130	Three-dimensional osteogenic and chondrogenic systems to model osteochondral physiology and degenerative joint diseases. <i>Experimental Biology and Medicine</i> , 2014, 239, 1080-1095.	1.1	60
131	Cartilage Tissue Engineering Application of Injectable Gelatin Hydrogel with <i>In Situ</i> Visible-Light-Activated Gelation Capability in Both Air and Aqueous Solution. <i>Tissue Engineering - Part A</i> , 2014, 20, 2402-2411.	1.6	122
132	Stem Cell-Based Microphysiological Osteochondral System to Model Tissue Response to Interleukin-1 $\beta$ . <i>Molecular Pharmaceutics</i> , 2014, 11, 2203-2212.	2.3	114
133	Human mesenchymal stem cells generate a distinct pericellular zone of MMP activities via binding of MMPs and secretion of high levels of TIMPs. <i>Matrix Biology</i> , 2014, 34, 132-143.	1.5	84
134	A comparison of bone regeneration with human mesenchymal stem cells and muscle-derived stem cells and the critical role of BMP. <i>Biomaterials</i> , 2014, 35, 6859-6870.	5.7	78
135	Functional cartilage repair capacity of de-differentiated, chondrocyte- and mesenchymal stem cell-laden hydrogels <i>in vitro</i> . <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1148-1157.	0.6	36
136	Mesenchymal progenitor cells derived from traumatized muscle enhance neurite growth. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 443-451.	1.3	18
137	Cartilage Regeneration. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2013, 21, 303-311.	1.1	156
138	Tendon and ligament regeneration and repair: Clinical relevance and developmental paradigm. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2013, 99, 203-222.	3.6	331
139	Three-dimensional osteochondral microtissue to model pathogenesis of osteoarthritis. <i>Stem Cell Research and Therapy</i> , 2013, 4, S6.	2.4	62
140	Enhancement of tenogenic differentiation of human adipose stem cells by tendon-derived extracellular matrix. <i>Biomaterials</i> , 2013, 34, 9295-9306.	5.7	155
141	The coming of age of musculoskeletal tissue engineering. <i>Nature Reviews Rheumatology</i> , 2013, 9, 74-76.	3.5	27
142	Application of visible light-based projection stereolithography for live cell-scaffold fabrication with designed architecture. <i>Biomaterials</i> , 2013, 34, 331-339.	5.7	311
143	The promise and challenges of stem cell-based therapies for skeletal diseases. <i>BioEssays</i> , 2013, 35, 220-230.	1.2	34
144	Wdpcp, a PCP Protein Required for Ciliogenesis, Regulates Directional Cell Migration and Cell Polarity by Direct Modulation of the Actin Cytoskeleton. <i>PLoS Biology</i> , 2013, 11, e1001720.	2.6	87

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145	Development of a Spring-Loaded Impact Device to Deliver Injurious Mechanical Impacts to the Articular Cartilage Surface. <i>Cartilage</i> , 2013, 4, 52-62.	1.4	25
146	The less-often-traveled surface of stem cells: caveolin-1 and caveolae in stem cells, tissue repair and regeneration. <i>Stem Cell Research and Therapy</i> , 2013, 4, 90.	2.4	48
147	An <i>In Vivo</i> Lapine Model for Impact-Induced Injury and Osteoarthritic Degeneration of Articular Cartilage. <i>Cartilage</i> , 2012, 3, 323-333.	1.4	18
148	Caveolin-1 regulates proliferation and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3773-3787.	1.2	42
149	Concise Review: Clinical Translation of Wound Healing Therapies Based on Mesenchymal Stem Cells. <i>Stem Cells Translational Medicine</i> , 2012, 1, 44-50.	1.6	223
150	Comparative evaluation of MSCs from bone marrow and adipose tissue seeded in PRP-derived scaffold for cartilage regeneration. <i>Biomaterials</i> , 2012, 33, 7008-7018.	5.7	257
151	Influence of decellularized matrix derived from human mesenchymal stem cells on their proliferation, migration and multi-lineage differentiation potential. <i>Biomaterials</i> , 2012, 33, 4480-4489.	5.7	162
152	Polyphenols suppress oxidative stress in bovine articular chondrocytes. <i>FASEB Journal</i> , 2012, 26, 823.19.	0.2	1
153	Anabolic/Catabolic Balance in Pathogenesis of Osteoarthritis: Identifying Molecular Targets. <i>PM and R</i> , 2011, 3, S3-11.	0.9	138
154	Cytokine expression in muscle following traumatic injury. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1613-1620.	1.2	49
155	Mesenchymal stem cells inhibit both endogenous and exogenous MMPs via secreted TIMPs. <i>Journal of Cellular Physiology</i> , 2011, 226, 385-396.	2.0	135
156	Comparison of Minimally Invasive Direct Anterior Versus Posterior Total Hip Arthroplasty Based on Inflammation and Muscle Damage Markers. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 1392-1398.	1.4	275
157	Role of adult stem/progenitor cells in osseointegration and implant loosening. <i>International Journal of Oral and Maxillofacial Implants</i> , 2011, 26 Suppl, 50-62; discussion 63-9.	0.6	8
158	Cell delivery therapeutics for musculoskeletal regeneration†. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 765-783.	6.6	107
159	Therapeutic potential of the immunomodulatory activities of adult mesenchymal stem cells. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2010, 90, 67-74.	3.6	71
160	The ERK5 and ERK1/2 signaling pathways play opposing regulatory roles during chondrogenesis of adult human bone marrow-derived multipotent progenitor cells. <i>Journal of Cellular Physiology</i> , 2010, 224, 178-186.	2.0	21
161	Novel strategies in tendon and ligament tissue engineering: Advanced biomaterials and regeneration motifs. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2010, 2, 20.	0.7	116
162	Hypertrophy in Mesenchymal Stem Cell Chondrogenesis: Effect of TGF- $\beta$ Isoforms and Chondrogenic Conditioning. <i>Cells Tissues Organs</i> , 2010, 192, 158-166.	1.3	174

#	ARTICLE	IF	CITATIONS
163	Notochordal cell conditioned medium stimulates mesenchymal stem cell differentiation toward a young nucleus pulposus phenotype. <i>Stem Cell Research and Therapy</i> , 2010, 1, 18.	2.4	116
164	ERK1/2 Activation Induced by Inflammatory Cytokines Compromises Effective Host Tissue Integration of Engineered Cartilage. <i>Tissue Engineering - Part A</i> , 2009, 15, 2825-2835.	1.6	33
165	Putative heterotopic ossification progenitor cells derived from traumatized muscle. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1645-1651.	1.2	83
166	Mesenchymal progenitor cells derived from traumatized human muscle. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 129-138.	1.3	76
167	Adult Stem Cells and Nanomaterials for Skeletal Tissue Engineering and Regeneration. <i>FASEB Journal</i> , 2009, 23, .	0.2	0
168	Spatiotemporal protein distribution of TGF $\beta$ s, their receptors, and extracellular matrix molecules during embryonic tendon development. <i>Developmental Dynamics</i> , 2008, 237, 1477-1489.	0.8	85
169	Functional characterization of hypertrophy in chondrogenesis of human mesenchymal stem cells. <i>Arthritis and Rheumatism</i> , 2008, 58, 1377-1388.	6.7	412
170	Mechanoactive Tenogenic Differentiation of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2008, 14, 1615-1627.	1.6	266
171	Intervertebral Disc Tissue Engineering Using a Novel Hyaluronic Acid Nanofibrous Scaffold (HANFS) Amalgam. <i>Tissue Engineering - Part A</i> , 2008, 14, 1527-1537.	1.6	177
172	Simulated Joint Infection Assessment by Rapid Detection of Live Bacteria with Real-Time Reverse Transcription Polymerase Chain Reaction. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008, 90, 602-608.	1.4	42
173	In Vitro Adipose Tissue Engineering Using an Electrospun Nanofibrous Scaffold. <i>Annals of Plastic Surgery</i> , 2008, 61, 566-571.	0.5	33
174	What are the local and systemic biologic reactions and mediators to wear debris, and what host factors determine or modulate the biologic response to wear particles?. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2008, 16, S42-S48.	1.1	118
175	A second-generation autologous chondrocyte implantation approach to the treatment of focal articular cartilage defects. <i>Arthritis Research and Therapy</i> , 2007, 9, 109.	1.6	67
176	Engineering controllable anisotropy in electrospun biodegradable nanofibrous scaffolds for musculoskeletal tissue engineering. <i>Journal of Biomechanics</i> , 2007, 40, 1686-1693.	0.9	355
177	Technology Insight: adult stem cells in cartilage regeneration and tissue engineering. <i>Nature Clinical Practice Rheumatology</i> , 2006, 2, 373-382.	3.2	270
178	Chondrogenic differentiation and functional maturation of bovine mesenchymal stem cells in long-term agarose culture. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 179-189.	0.6	478
179	The Effect of Applied Compressive Loading on Tissue-Engineered Cartilage Constructs Cultured with TGF- $\beta$ 3. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
180	A three-dimensional nanofibrous scaffold for cartilage tissue engineering using human mesenchymal stem cells. <i>Biomaterials</i> , 2005, 26, 599-609.	5.7	880

#	ARTICLE	IF	CITATIONS
181	Polymeric Scaffolds for Cartilage Tissue Engineering. <i>Macromolecular Symposia</i> , 2005, 227, 65-76.	0.4	25
182	Human Mesenchymal Progenitor Cell-Based Tissue Engineering of a Single-Unit Osteochondral Construct. <i>Tissue Engineering</i> , 2004, 10, 1169-1179.	4.9	108
183	Adult mesenchymal stem cells: characterization, differentiation, and application in cell and gene therapy. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 301-316.	1.6	928
184	Regulation of MMP-13 expression by RUNX2 and FGF2 in osteoarthritic cartilage. <i>Osteoarthritis and Cartilage</i> , 2004, 12, 963-973.	0.6	257
185	Biology of Developmental and Regenerative Skeletogenesis. <i>Clinical Orthopaedics and Related Research</i> , 2004, 427, S105-S117.	0.7	99
186	Adult mesenchymal stem cells and cell-based tissue engineering. <i>Arthritis Research</i> , 2003, 5, 32.	2.0	656
187	Transforming Growth Factor- $\beta$ -mediated Chondrogenesis of Human Mesenchymal Progenitor Cells Involves N-cadherin and Mitogen-activated Protein Kinase and Wnt Signaling Cross-talk. <i>Journal of Biological Chemistry</i> , 2003, 278, 41227-41236.	1.6	427
188	CELLULAR SIGNALING IN DEVELOPMENTAL CHONDROGENESIS. <i>Journal of Bone and Joint Surgery - Series A</i> , 2003, 85, 137-141.	1.4	95
189	Analysis of N-cadherin function in limb mesenchymal chondrogenesis in vitro. <i>Developmental Dynamics</i> , 2002, 225, 195-204.	0.8	164
190	Human Marrow-Derived Mesenchymal Progenitor Cells. <i>Molecular Biotechnology</i> , 2002, 20, 245-256.	1.3	190
191	N-Cadherin and $\beta$ -Catenin involvement in BMP-2 induction of mesenchymal chondrogenesis. <i>Signal Transduction</i> , 2001, 1, 66-78.	0.7	5
192	Wnt regulation of limb mesenchymal chondrogenesis is accompanied by altered N-cadherin-related functions. <i>FASEB Journal</i> , 2001, 15, 1436-1438.	0.2	77
193	Alternative splicing during chondrogenesis: cis and trans factors involved in splicing of fibronectin exon EIIIA. <i>Journal of Cellular Biochemistry</i> , 2000, 76, 341-351.	1.2	8
194	Expression of Angiogenic Growth Factors in Paragangliomas. <i>Laryngoscope</i> , 2000, 110, 161-167.	1.1	55
195	Embryonic Limb Mesenchyme Micromass Culture as an In Vitro Model for Chondrogenesis and Cartilage Maturation. , 2000, 137, 359-375.		65
196	Developmental biology protocols. Overview I. <i>Methods in Molecular Biology</i> , 2000, 135, 3-5.	0.4	2
197	MOLECULAR DETECTION OF INFECTION IN TOTAL KNEE ARTHROPLASTY: A CLINICAL CORRELATION. <i>Journal of Musculoskeletal Research</i> , 1999, 03, 93-107.	0.1	3
198	Developmental Expression of Creatine Kinase Isoenzymes in Chicken Growth Cartilage. <i>Journal of Bone and Mineral Research</i> , 1999, 14, 747-756.	3.1	8

#	ARTICLE	IF	CITATIONS
199	High density micromass cultures of embryonic limb bud mesenchymal cells: An in vitro model of endochondral skeletal development. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1999, 35, 262-269.	0.7	123
200	Mechanism of BMP-2 stimulated adhesion of osteoblastic cells to titanium alloy. <i>Biology of the Cell</i> , 1999, 91, 131-142.	0.7	100
201	Chondrogenic differentiation of murine C3H10T1/2 multipotential mesenchymal cells: I. Stimulation by bone morphogenetic protein-2 in high-density micromass cultures. <i>Differentiation</i> , 1999, 64, 67-76.	1.0	237
202	Expression of the paired-box genes Pax-1 and Pax-9 in limb skeleton development. , 1999, 214, 101-115.		38
203	N-Cadherin expression and signaling in limb mesenchymal chondrogenesis: Stimulation by Poly-L-Lysine. , 1999, 24, 178-187.		44
204	Regulation of chondrocyte differentiation and maturation. , 1998, 43, 174-190.		51
205	High sensitivity analysis of gene expression in single embryonic somites using coupled reverse transcription-polymerase chain reaction. <i>Molecular Biotechnology</i> , 1998, 9, 7-15.	1.3	4
206	Developmental Expression and Vitamin D Regulation of Calbindin-D28K in Chick Embryonic Yolk Sac Endoderm. <i>Journal of Nutrition</i> , 1996, 126, 1308S-1316S.	1.3	12
207	Hybridization of biotinylated oligo(dT) for Eukaryotic mRNA quantitation. <i>Molecular Biotechnology</i> , 1996, 6, 225-230.	1.3	5
208	Valproic acid-induced somite teratogenesis in the chick embryo: Relationship with pax-1 gene expression. , 1996, 54, 93-102.		38
209	Fibronectin mRNA alternative splicing is temporally and spatially regulated during chondrogenesis in vivo and in vitro. <i>Developmental Dynamics</i> , 1996, 206, 219-230.	0.8	38
210	Developmental expression and vitamin D regulation of calbindin-D28K in chick embryonic yolk sac endoderm. <i>Journal of Nutrition</i> , 1996, 126, 1308S-16S.	1.3	4
211	Chondrogenic potential of chick embryonic calvaria: I. Low calcium permits cartilage differentiation. <i>Developmental Dynamics</i> , 1995, 202, 13-26.	0.8	37
212	Chondrogenic potential of chick embryonic calvaria: II. Matrix calcium may repress cartilage differentiation. <i>Developmental Dynamics</i> , 1995, 202, 27-41.	0.8	22
213	Functional involvement of Pax-1 in somite development: Somite dysmorphogenesis in chick embryos treated with Pax-1 paired-box antisense oligodeoxynucleotide. <i>Teratology</i> , 1995, 52, 333-345.	1.8	32
214	Development of a novel, rapid processing protocol for polymerase chain reaction-based detection of bacterial infections in synovial fluids. <i>Molecular Biotechnology</i> , 1995, 4, 227-237.	1.3	53
215	Separation of proteins using cetyltrimethylammonium bromide discontinuous gel electrophoresis. <i>Molecular Biotechnology</i> , 1994, 1, 211-228.	1.3	9
216	Alterations in cellular calcium handling as a result of systemic calcium deficiency in the developing chick embryo: I. Erythrocytes. <i>Journal of Cellular Physiology</i> , 1992, 153, 626-635.	2.0	3

#	ARTICLE	IF	CITATIONS
217	Alterations in cellular calcium handling as a result of systemic calcium deficiency in the developing chick embryo: II. Ventricular myocytes. <i>Journal of Cellular Physiology</i> , 1992, 153, 636-644.	2.0	4
218	Pattern of expression of transforming growth factor- $\beta$ 24 mRNA and protein in the developing chicken embryo. <i>Developmental Dynamics</i> , 1992, 195, 276-289.	0.8	27
219	Developmental regulation of creatine kinase activity in cells of the epiphyseal growth cartilage. <i>Journal of Bone and Mineral Research</i> , 1992, 7, 493-500.	3.1	26
220	Pattern of expression of transforming growth factor- $\beta$ 24 mRNA and protein in the developing chicken embryo. <i>Developmental Dynamics</i> , 1992, 195, 276-289.	0.8	1
221	Enhanced extracellular matrix production and mineralization by osteoblasts cultured on titanium surfaces in vitro. <i>Journal of Cell Science</i> , 1992, 101 ( Pt 1), 209-17.	1.2	33
222	In vitro study of placental trophoblast calcium uptake using JEG-3 human choriocarcinoma cells. <i>Journal of Cell Science</i> , 1991, 98 ( Pt 3), 333-42.	1.2	11
223	Ca(2+)-activated ATPase of the mouse chorioallantoic placenta: developmental expression, characterization and cytohistochemical localization. <i>Development (Cambridge)</i> , 1990, 110, 505-13.	1.2	3