

# Boon Chin Heng

## List of Publications by Year in descending order

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223  
papers

9,741  
citations

30070

54  
h-index

49909

87  
g-index

226  
all docs

226  
docs citations

226  
times ranked

13504  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exosomes from embryonic mesenchymal stem cells alleviate osteoarthritis through balancing synthesis and degradation of cartilage extracellular matrix. <i>Stem Cell Research and Therapy</i> , 2017, 8, 189.	5.5	326
2	Directing Stem Cell Differentiation into the Chondrogenic Lineage In Vitro. <i>Stem Cells</i> , 2004, 22, 1152-1167.	3.2	225
3	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. <i>Archives of Toxicology</i> , 2013, 87, 1037-1052.	4.2	215
4	Efficacy of hESC-MSCs in knitted silk-collagen scaffold for tendon tissue engineering and their roles. <i>Biomaterials</i> , 2010, 31, 9438-9451.	11.4	209
5	The Immunogenicity and Immunomodulatory Function of Osteogenic Cells Differentiated from Mesenchymal Stem Cells. <i>Journal of Immunology</i> , 2006, 176, 2864-2871.	0.8	186
6	The role of the tumor suppressor p53 pathway in the cellular DNA damage response to zinc oxide nanoparticles. <i>Biomaterials</i> , 2011, 32, 8218-8225.	11.4	185
7	Evaluation of the cytotoxic and inflammatory potential of differentially shaped zinc oxide nanoparticles. <i>Archives of Toxicology</i> , 2011, 85, 1517-1528.	4.2	171
8	Toxicity of zinc oxide (ZnO) nanoparticles on human bronchial epithelial cells (BEAS-2B) is accentuated by oxidative stress. <i>Food and Chemical Toxicology</i> , 2010, 48, 1762-1766.	3.6	162
9	Strategies for directing the differentiation of stem cells into the cardiomyogenic lineage in vitro. <i>Cardiovascular Research</i> , 2004, 62, 34-42.	3.8	159
10	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. <i>Langmuir</i> , 2010, 26, 8959-8965.	3.5	158
11	An overview of the diverse roles of G-protein coupled receptors (GPCRs) in the pathophysiology of various human diseases. <i>Biotechnology Advances</i> , 2013, 31, 1676-1694.	11.7	155
12	Well-aligned chitosan-based ultrafine fibers committed teno-lineage differentiation of human induced pluripotent stem cells for Achilles tendon regeneration. <i>Biomaterials</i> , 2015, 53, 716-730.	11.4	154
13	The effect of incorporation of exogenous stromal cell-derived factor-1 alpha within a knitted silk-collagen sponge scaffold on tendon regeneration. <i>Biomaterials</i> , 2010, 31, 7239-7249.	11.4	150
14	Strategies for Directing the Differentiation of Stem Cells Into the Osteogenic Lineage In Vitro. <i>Journal of Bone and Mineral Research</i> , 2004, 19, 1379-1394.	2.8	144
15	Effects of Culture Conditions and Bone Morphogenetic Protein 2 on Extent of Chondrogenesis from Human Embryonic Stem Cells. <i>Stem Cells</i> , 2007, 25, 950-960.	3.2	139
16	Mohawk Promotes the Tenogenesis of Mesenchymal Stem Cells Through Activation of the TGF $\beta$ 2 Signaling Pathway. <i>Stem Cells</i> , 2015, 33, 443-455.	3.2	136
17	Composite scaffolds of nano-hydroxyapatite and silk fibroin enhance mesenchymal stem cell-based bone regeneration via the interleukin 1 alpha autocrine/paracrine signaling loop. <i>Biomaterials</i> , 2015, 49, 103-112.	11.4	130
18	Electrospun scaffolds for multiple tissues regeneration in vivo through topography dependent induction of lineage specific differentiation. <i>Biomaterials</i> , 2015, 44, 173-185.	11.4	129

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19	The effect of decellularized matrices on human tendon stem/progenitor cell differentiation and tendon repair. <i>Acta Biomaterialia</i> , 2013, 9, 9317-9329.	8.3	126
20	Synthetic far-red light-mediated CRISPR-dCas9 device for inducing functional neuronal differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6722-E6730.	7.1	124
21	Vitrified-warmed blastocyst transfer cycles yield higher pregnancy and implantation rates compared with fresh blastocyst transfer cycles—time for a new embryo transfer strategy?. <i>Fertility and Sterility</i> , 2011, 95, 1691-1695.	1.0	123
22	Allogeneous Tendon Stem/Progenitor Cells in Silk Scaffold for Functional Shoulder Repair. <i>Cell Transplantation</i> , 2012, 21, 943-958.	2.5	119
23	A programmable synthetic lineage-control network that differentiates human iPSCs into glucose-sensitive insulin-secreting beta-like cells. <i>Nature Communications</i> , 2016, 7, 11247.	12.8	109
24	Loss of viability during freeze-thaw of intact and adherent human embryonic stem cells with conventional slow-cooling protocols is predominantly due to apoptosis rather than cellular necrosis. <i>Journal of Biomedical Science</i> , 2006, 13, 433-445.	7.0	108
25	The Molecular Basis of the Solution Properties of Hyaluronan Investigated by Confocal Fluorescence Recovery After Photobleaching. <i>Biophysical Journal</i> , 1999, 77, 2210-2216.	0.5	104
26	A Gelatin-sulfonated Silk Composite Scaffold based on 3D Printing Technology Enhances Skin Regeneration by Stimulating Epidermal Growth and Dermal Neovascularization. <i>Scientific Reports</i> , 2017, 7, 4288.	3.3	104
27	Combined effects of TGF $\beta$ 1 and BMP2 in serum-free chondrogenic differentiation of mesenchymal stem cells induced hyaline-like cartilage formation. <i>Growth Factors</i> , 2005, 23, 313-321.	1.7	100
28	Current Advance and Future Prospects of Tissue Engineering Approach to Dentin/Pulp Regenerative Therapy. <i>Stem Cells International</i> , 2016, 2016, 1-13.	2.5	100
29	Single-cell analysis reveals a nestin <sup>+</sup> tendon stem/progenitor cell population with strong tenogenic potentiality. <i>Science Advances</i> , 2016, 2, e1600874.	10.3	100
30	Osteoarthritis and therapy. <i>Arthritis and Rheumatism</i> , 2006, 55, 493-500.	6.7	98
31	Cellular behavior of human mesenchymal stem cells cultured on single-walled carbon nanotube film. <i>Carbon</i> , 2010, 48, 1095-1104.	10.3	94
32	Reduction in exposure of human embryos outside the incubator enhances embryo quality and blastulation rate. <i>Reproductive BioMedicine Online</i> , 2010, 20, 510-515.	2.4	94
33	Alignment of collagen fiber in knitted silk scaffold for functional massive rotator cuff repair. <i>Acta Biomaterialia</i> , 2017, 51, 317-329.	8.3	91
34	Comparison of osteogenesis of human embryonic stem cells within 2D and 3D culture systems. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2008, 68, 58-67.	1.2	88
35	Intra-Articular Injection of Human Meniscus Stem/Progenitor Cells Promotes Meniscus Regeneration and Ameliorates Osteoarthritis Through Stromal Cell-Derived Factor-1/CXCR4-Mediated Homing. <i>Stem Cells Translational Medicine</i> , 2014, 3, 387-394.	3.3	86
36	Intratendon Delivery of Leukocyte-Poor Platelet-Rich Plasma Improves Healing Compared With Leukocyte-Rich Platelet-Rich Plasma in a Rabbit Achilles Tendinopathy Model. <i>American Journal of Sports Medicine</i> , 2017, 45, 1909-1920.	4.2	85

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37	Histological evaluation of osteogenesis of 3D-printed poly-lactic-co-glycolic acid (PLGA) scaffolds in a rabbit model. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 021001.	3.3	85
38	Long-term effects of knitted silk collagen sponge scaffold on anterior cruciate ligament reconstruction and osteoarthritis prevention. <i>Biomaterials</i> , 2014, 35, 8154-8163.	11.4	84
39	Mesenchymal Stem Cell Sheets Revitalize Nonviable Dense Grafts: Implications for Repair of Large-Bone and Tendon Defects. <i>Transplantation</i> , 2006, 82, 170-174.	1.0	82
40	A Biolineage Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014, 24, 4473-4483.	14.9	80
41	Functional biomaterials for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2526-2536.	4.0	79
42	The promotion of osteochondral repair by combined intra-articular injection of parathyroid hormone-related protein and implantation of a bi-layer collagen-silk scaffold. <i>Biomaterials</i> , 2013, 34, 6046-6057.	11.4	78
43	Single-Phase Dy <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. <i>Chemistry of Materials</i> , 2011, 23, 2439-2446.	6.7	76
44	Cytotoxicity of zinc oxide (ZnO) nanoparticles is influenced by cell density and culture format. <i>Archives of Toxicology</i> , 2011, 85, 695-704.	4.2	74
45	Osteogenic differentiation within intact human embryoid bodies result in a marked increase in osteocalcin secretion after 12 days of in vitro culture, and formation of morphologically distinct nodule-like structures. <i>Tissue and Cell</i> , 2005, 37, 325-334.	2.2	72
46	Effect of Rho-associated kinase (ROCK) inhibitor Y-27632 on the post-thaw viability of cryopreserved human bone marrow-derived mesenchymal stem cells. <i>Tissue and Cell</i> , 2009, 41, 376-380.	2.2	72
47	Restoration of electrical microenvironment enhances bone regeneration under diabetic conditions by modulating macrophage polarization. <i>Bioactive Materials</i> , 2021, 6, 2029-2038.	15.6	72
48	The roles of inflammatory mediators and immunocytes in tendinopathy. <i>Journal of Orthopaedic Translation</i> , 2018, 14, 23-33.	3.9	64
49	The analysis of intermolecular interactions in concentrated hyaluronan solutions suggest no evidence for chain-chain association. <i>Biochemical Journal</i> , 2000, 350, 329-335.	3.7	63
50	An overview and synopsis of techniques for directing stem cell differentiation in vitro. <i>Cell and Tissue Research</i> , 2004, 315, 291-303.	2.9	63
51	Proliferation and Differentiation of Human Osteoblasts within 3D printed Poly-Lactic-co-Glycolic Acid Scaffolds. <i>Journal of Biomaterials Applications</i> , 2009, 23, 533-547.	2.4	62
52	Translating Human Embryonic Stem Cells from 2-Dimensional to 3-Dimensional Cultures in a Defined Medium on Laminin- and Vitronectin-Coated Surfaces. <i>Stem Cells and Development</i> , 2012, 21, 1701-1715.	2.1	61
53	3D-Printed Atstrin Incorporated Alginate/Hydroxyapatite Scaffold Promotes Bone Defect Regeneration with TNF/TNFR Signaling Involvement. <i>Advanced Healthcare Materials</i> , 2015, 4, 1701-1708.	7.6	60
54	Biomimetic tendon extracellular matrix composite gradient scaffold enhances ligament-to-bone junction reconstruction. <i>Acta Biomaterialia</i> , 2017, 56, 129-140.	8.3	60

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55	An overview of signaling pathways regulating YAP/TAZ activity. Cellular and Molecular Life Sciences, 2021, 78, 497-512.	5.4	59
56	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133 <sup>+</sup> endothelial progenitor cells for cardiac repair. Regenerative Medicine, 2010, 5, 231-244.	1.7	58
57	Comparison of different test models for the assessment of cytotoxicity of composite resins. Journal of Applied Toxicology, 2005, 25, 101-108.	2.8	57
58	The cryopreservation of human embryonic stem cells. Biotechnology and Applied Biochemistry, 2005, 41, 97.	3.1	56
59	Inhibition of Rac1 activity by controlled release of NSC23766 from chitosan microspheres effectively ameliorates osteoarthritis development in vivo. Annals of the Rheumatic Diseases, 2015, 74, 285-293.	0.9	56
60	Directing endothelial differentiation of human embryonic stem cells via transduction with an adenoviral vector expressing the VEGF165 gene. Journal of Gene Medicine, 2007, 9, 452-461.	2.8	55
61	<i>In vitro</i> assessment of cellular responses to rod-shaped hydroxyapatite nanoparticles of varying lengths and surface areas. Nanotoxicology, 2011, 5, 182-194.	3.0	55
62	Fetal and adult fibroblasts display intrinsic differences in tendon tissue engineering and regeneration. Scientific Reports, 2014, 4, 5515.	3.3	55
63	The relationship between substrate topography and stem cell differentiation in the musculoskeletal system. Cellular and Molecular Life Sciences, 2019, 76, 505-521.	5.4	55
64	Mitochondria transfer enhances proliferation, migration, and osteogenic differentiation of bone marrow mesenchymal stem cell and promotes bone defect healing. Stem Cell Research and Therapy, 2020, 11, 245.	5.5	55
65	Caspase Inhibitor Z-VAD-FMK Enhances the Freeze-Thaw Survival Rate of Human Embryonic Stem Cells. Bioscience Reports, 2007, 27, 257-264.	2.4	53
66	Effects of compatibility of deproteinized antler cancellous bone with various bioactive factors on their osteogenic potential. Biomaterials, 2013, 34, 9103-9114.	11.4	53
67	Cellular uptake of Poly(D,L-lactide-co-glycolide) (PLGA) nanoparticles synthesized through solvent emulsion evaporation and nanoprecipitation method. Biotechnology Journal, 2011, 6, 501-508.	3.5	52
68	Osteoarthritis Prevention Through Meniscal Regeneration Induced by Intra-Articular Injection of Meniscus Stem Cells. Stem Cells and Development, 2013, 22, 2071-2082.	2.1	52
69	Kdm6b regulates cartilage development and homeostasis through anabolic metabolism. Annals of the Rheumatic Diseases, 2017, 76, 1295-1303.	0.9	51
70	Exogenous stromal derived factor-1 releasing silk scaffold combined with intra-articular injection of progenitor cells promotes bone-ligament-bone regeneration. Acta Biomaterialia, 2018, 71, 168-183.	8.3	50
71	Biomimetic strategies for tendon/ligament-to-bone interface regeneration. Bioactive Materials, 2021, 6, 2491-2510.	15.6	50
72	An Overview of Protocols for the Neural Induction of Dental and Oral Stem Cells <i>In Vitro</i> . Tissue Engineering - Part B: Reviews, 2016, 22, 220-250.	4.8	49

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73	Intra-Articular Transplantation of Atsttrin-Transduced Mesenchymal Stem Cells Ameliorate Osteoarthritis Development. <i>Stem Cells Translational Medicine</i> , 2015, 4, 523-531.	3.3	48
74	Making cell-permeable antibodies (Transbody) through fusion of protein transduction domains (PTD) with single chain variable fragment (scFv) antibodies: Potential advantages over antibodies expressed within the intracellular environment (Intrabody). <i>Medical Hypotheses</i> , 2005, 64, 1105-1108.	1.5	44
75	Therapeutic effects of gefitinib-encapsulated thermosensitive injectable hydrogel in intervertebral disc degeneration. <i>Biomaterials</i> , 2018, 160, 56-68.	11.4	44
76	Vitrification of mouse embryos at 2-cell, 4-cell and 8-cell stages by cryotop method. <i>Journal of Assisted Reproduction and Genetics</i> , 2009, 26, 621-628.	2.5	43
77	mRNA transfection-based, feeder-free, induced pluripotent stem cells derived from adipose tissue of a 50-year-old patient. <i>Metabolic Engineering</i> , 2013, 18, 9-24.	7.0	41
78	Concise Review: Stem Cell Fate Guided By Bioactive Molecules for Tendon Regeneration. <i>Stem Cells Translational Medicine</i> , 2018, 7, 404-414.	3.3	41
79	Nanomaterial-based scaffolds for bone tissue engineering and regeneration. <i>Nanomedicine</i> , 2020, 15, 1995-2017.	3.3	41
80	Soluble molecules are key in maintaining the immunomodulatory activity of murine mesenchymal stromal cells. <i>Journal of Cell Science</i> , 2012, 125, 200-208.	2.0	40
81	The analysis of intermolecular interactions in concentrated hyaluronan solutions suggest no evidence for chain-chain association. <i>Biochemical Journal</i> , 2000, 350, 329.	3.7	39
82	Comparison of Enzymatic and Non-Enzymatic Means of Dissociating Adherent Monolayers of Mesenchymal Stem Cells. <i>Biological Procedures Online</i> , 2009, 11, 161-9.	2.9	39
83	Reconstructing Lineage Hierarchies of Mouse Uterus Epithelial Development Using Single-Cell Analysis. <i>Stem Cell Reports</i> , 2017, 9, 381-396.	4.8	39
84	A systematic review: differentiation of stem cells into functional pericytes. <i>FASEB Journal</i> , 2017, 31, 1775-1786.	0.5	38
85	The effects of lactate and acid on articular chondrocytes function: Implications for polymeric cartilage scaffold design. <i>Acta Biomaterialia</i> , 2016, 42, 329-340.	8.3	37
86	Local delivery of FTY720 in PCL membrane improves SCI functional recovery by reducing reactive astrogliosis. <i>Biomaterials</i> , 2015, 62, 76-87.	11.4	35
87	Directing stem cells into the keratinocyte lineage <i>in vitro</i> . <i>Experimental Dermatology</i> , 2005, 14, 1-16.	2.9	34
88	Osteoconductive effectiveness of bone graft derived from antler cancellous bone: an experimental study in the rabbit mandible defect model. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2012, 41, 1330-1337.	1.5	34
89	TGF- $\beta$ 1-induced differentiation of SHED into functional smooth muscle cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 10.	5.5	34
90	Understanding the Immunological Mechanisms of Mesenchymal Stem Cells in Allogeneic Transplantation: From the Aspect of Major Histocompatibility Complex Class I. <i>Stem Cells and Development</i> , 2019, 28, 1141-1150.	2.1	33

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91	Remote Tuning of Built-In Magnetoelectric Microenvironment to Promote Bone Regeneration by Modulating Cellular Exposure to Arginylglycylaspartic Acid Peptide. <i>Advanced Functional Materials</i> , 2021, 31, 2006226.	14.9	33
92	Effect of cell-seeding density on the proliferation and gene expression profile of human umbilical vein endothelial cells within ex vivo culture. <i>Cytotherapy</i> , 2011, 13, 606-617.	0.7	32
93	Physical regulation of stem cells differentiation into teno-lineage: current strategies and future direction. <i>Cell and Tissue Research</i> , 2015, 360, 195-207.	2.9	32
94	Differentiated Fibroblastic Progenies of Human Embryonic Stem Cells for Toxicology Screening. <i>Cloning and Stem Cells</i> , 2008, 10, 1-10.	2.6	31
95	Comparative cytotoxicity evaluation of lanthanide nanomaterials on mouse and human cell lines with metabolic and DNA-quantification assays. <i>Biointerphases</i> , 2010, 5, FA88-FA97.	1.6	31
96	Sophocarpine attenuates wear particle-induced implant loosening by inhibiting osteoclastogenesis and bone resorption via suppression of the NF- $\kappa$ B signalling pathway in a rat model. <i>British Journal of Pharmacology</i> , 2018, 175, 859-876.	5.4	31
97	FEEDER CELL DENSITY—A KEY PARAMETER IN HUMAN EMBRYONIC STEM CELL CULTURE. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2004, 40, 255.	1.5	28
98	Hyaluronan Binding to Link Module of TSG-6 and to G1 Domain of Aggrecan Is Differently Regulated by pH. <i>Journal of Biological Chemistry</i> , 2008, 283, 32294-32301.	3.4	28
99	Incorporation of bioactive polyvinylpyrrolidone-iodine within bilayered collagen scaffolds enhances the differentiation and subchondral osteogenesis of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2013, 9, 8089-8098.	8.3	28
100	Neural Differentiation of Human Pluripotent Stem Cells for Nontherapeutic Applications: Toxicology, Pharmacology, and In Vitro Disease Modeling. <i>Stem Cells International</i> , 2015, 2015, 1-11.	2.5	28
101	Decellularized extracellular matrix of human umbilical vein endothelial cells promotes endothelial differentiation of stem cells from exfoliated deciduous teeth. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1083-1093.	4.0	28
102	Transcatheter Injection-Induced Changes in Human Bone Marrow-Derived Mesenchymal Stem Cells. <i>Cell Transplantation</i> , 2009, 18, 1111-1121.	2.5	27
103	Pharmacological Regulation of In Situ Tissue Stem Cells Differentiation for Soft Tissue Calcification Treatment. <i>Stem Cells</i> , 2016, 34, 1083-1096.	3.2	27
104	Strategies for the cryopreservation of microencapsulated cells. <i>Biotechnology and Bioengineering</i> , 2004, 85, 202-213.	3.3	26
105	Factors influencing stem cell differentiation into the hepatic lineage in vitro. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2005, 20, 975-987.	2.8	25
106	Culture media conditioned by heat-shocked osteoblasts enhances the osteogenesis of bone marrow-derived mesenchymal stromal cells. <i>Cell Biochemistry and Function</i> , 2007, 25, 267-276.	2.9	25
107	Induced pluripotent stem cells: a new tool for toxicology screening?. <i>Archives of Toxicology</i> , 2009, 83, 641-644.	4.2	25
108	Down-Regulation of Rac GTPase-Activating Protein OCRL1 Causes Aberrant Activation of Rac1 in Osteoarthritis Development. <i>Arthritis and Rheumatology</i> , 2015, 67, 2154-2163.	5.6	25

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109	Matrix stiffness modulates tip cell formation through the p-PXN-Rac1-YAP signaling axis. <i>Bioactive Materials</i> , 2022, 7, 364-376.	15.6	25
110	An autologous cell lysate extract from human embryonic stem cell (hESC) derived osteoblasts can enhance osteogenesis of hESC. <i>Tissue and Cell</i> , 2008, 40, 219-228.	2.2	24
111	Small molecules enhance neurogenic differentiation of dental-derived adult stem cells. <i>Archives of Oral Biology</i> , 2019, 102, 26-38.	1.8	24
112	New insights on brain-derived neurotrophic factor epigenetics: from depression to memory extinction. <i>Annals of the New York Academy of Sciences</i> , 2021, 1484, 9-31.	3.8	24
113	Transplanted human embryonic stem cells as biological "catalysts"™ for tissue repair and regeneration. <i>Medical Hypotheses</i> , 2005, 64, 1085-1088.	1.5	23
114	G Protein-Coupled Receptors Revisited: Therapeutic Applications Inspired by Synthetic Biology. <i>Annual Review of Pharmacology and Toxicology</i> , 2014, 54, 227-249.	9.4	23
115	Prosthetic gene networks as an alternative to standard pharmacotherapies for metabolic disorders. <i>Current Opinion in Biotechnology</i> , 2015, 35, 37-45.	6.6	23
116	Systematic Review of Silk Scaffolds in Musculoskeletal Tissue Engineering Applications in the Recent Decade. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 817-840.	5.2	23
117	Effect of cryotop vitrification on preimplantation developmental competence of murine morula and blastocyst stage embryos. <i>Reproductive BioMedicine Online</i> , 2009, 19, 708-713.	2.4	22
118	Effects of decellularized matrices derived from periodontal ligament stem cells and SHED on the adhesion, proliferation and osteogenic differentiation of human dental pulp stem cells in vitro. <i>Tissue and Cell</i> , 2016, 48, 133-143.	2.2	22
119	Ectopic tissue engineered ligament with silk collagen scaffold for ACL regeneration: A preliminary study. <i>Acta Biomaterialia</i> , 2017, 53, 307-317.	8.3	22
120	Role of melatonin in Alzheimer's disease: From preclinical studies to novel melatonin-based therapies. <i>Frontiers in Neuroendocrinology</i> , 2022, 65, 100986.	5.2	22
121	A PROPOSED DESIGN FOR THE CRYOPRESERVATION OF INTACT AND ADHERENT HUMAN EMBRYONIC STEM CELL COLONIES. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2005, 41, 77.	1.5	21
122	Semaphorin 4D Enhances Angiogenic Potential and Suppresses Osteo-/Odontogenic Differentiation of Human Dental Pulp Stem Cells. <i>Journal of Endodontics</i> , 2017, 43, 297-305.	3.1	21
123	Low temperature tolerance of human embryonic stem cells. <i>International Journal of Medical Sciences</i> , 2006, 3, 124-129.	2.5	20
124	Mechanical dissociation of human embryonic stem cell colonies by manual scraping after collagenase treatment is much more detrimental to cellular viability than is trypsinization with gentle pipetting. <i>Biotechnology and Applied Biochemistry</i> , 2007, 47, 33.	3.1	20
125	Human Embryonic Stem Cells May Display Higher Resistance to Genotoxic Stress as Compared to Primary Explanted Somatic Cells. <i>Stem Cells and Development</i> , 2008, 17, 599-608.	2.1	20
126	17 $\beta$ -Estradiol Protects Human Eyelid-Derived Adipose Stem Cells against Cytotoxicity and Increases Transplanted Cell Survival in Spinal Cord injury. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 326-343.	3.6	20



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127	Evaluation of human embryonic stem cells and their differentiated fibroblastic progenies as cellular models for in vitro genotoxicity screening. <i>Journal of Biotechnology</i> , 2014, 184, 154-168.	3.8	20
128	Synergistic effects of elastic modulus and surface topology of Ti-based implants on early osseointegration. <i>RSC Advances</i> , 2016, 6, 43685-43696.	3.6	20
129	Tendon Stem/Progenitor Cell Subpopulations and Their Implications in Tendon Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 631272.	3.7	19
130	Comparison of the Response of Human Embryonic Stem Cells and Their Differentiated Progenies to Oxidative Stress. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 669-674.	2.0	18
131	EphrinB2 signaling enhances osteogenic/odontogenic differentiation of human dental pulp stem cells. <i>Archives of Oral Biology</i> , 2018, 87, 62-71.	1.8	18
132	Cepharanthine Prevents Estrogen Deficiency-Induced Bone Loss by Inhibiting Bone Resorption. <i>Frontiers in Pharmacology</i> , 2018, 9, 210.	3.5	18
133	Knitted Silk-Collagen Scaffold Incorporated with Ligament Stem/Progenitor Cells Sheet for Anterior Cruciate Ligament Reconstruction and Osteoarthritis Prevention. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5412-5421.	5.2	18
134	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1387-1397.	2.3	18
135	3D printing of chemical-empowered tendon stem/progenitor cells for functional tissue repair. <i>Biomaterials</i> , 2021, 271, 120722.	11.4	18
136	Integration-Free Reprogramming of Human Somatic Cells to Induced Pluripotent Stem Cells (iPSCs) Without Viral Vectors, Recombinant DNA, and Genetic Modification. <i>Methods in Molecular Biology</i> , 2014, 1151, 75-94.	0.9	18
137	Kinetics of cell death of frozen-thawed human embryonic stem cell colonies is reversibly slowed down by exposure to low temperature. <i>Zygote</i> , 2006, 14, 341-348.	1.1	17
138	Adhesion, proliferation, and gene expression profile of human umbilical vein endothelial cells cultured on bilayered polyelectrolyte coatings composed of glycosaminoglycans. <i>Biointerphases</i> , 2010, 5, FA53-FA62.	1.6	17
139	Wnt and Rho GTPase signaling in osteoarthritis development and intervention: implications for diagnosis and therapy. <i>Arthritis Research and Therapy</i> , 2013, 15, 217.	3.5	17
140	Small molecule therapeutics for inflammation-associated chronic musculoskeletal degenerative diseases: Past, present and future. <i>Experimental Cell Research</i> , 2017, 359, 1-9.	2.6	17
141	Delivery of epidermal growth factor receptor inhibitor via a customized collagen scaffold promotes meniscal defect regeneration in a rabbit model. <i>Acta Biomaterialia</i> , 2017, 62, 210-221.	8.3	17
142	Local Delivery of Silk-Cellulose Incorporated with Stromal Cell-Derived Factor-1± Functionally Improves the Uterus Repair. <i>Tissue Engineering - Part A</i> , 2019, 25, 1514-1526.	3.1	17
143	Cell Membrane Vesicles with Enriched CXCR4 Display Enhances Their Targeted Delivery as Drug Carriers to Inflammatory Sites. <i>Advanced Science</i> , 2021, 8, e2101562.	11.2	17
144	Aberrant profile of gene expression in cloned mouse embryos derived from donor cumulus nuclei. <i>Cell and Tissue Research</i> , 2006, 325, 231-243.	2.9	16

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145	Transplantation of Fetal Instead of Adult Fibroblasts Reduces the Probability of Ectopic Ossification During Tendon Repair. <i>Tissue Engineering - Part A</i> , 2014, 20, 1815-1826.	3.1	16
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