

Boon Chin Heng

List of Publications by Year in descending order

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Version: 2024-02-01

223
papers

9,741
citations

34493

54
h-index

56606

87
g-index

226
all docs

226
docs citations

226
times ranked

14893
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanosecond pulsed electric fields prime mesenchymal stem cells to peptide ghrelin and enhance chondrogenesis and osteochondral defect repair in vivo. <i>Science China Life Sciences</i> , 2022, 65, 927-939.	2.3	7
2	Matrix stiffness modulates tip cell formation through the p-PXN-Rac1-YAP signaling axis. <i>Bioactive Materials</i> , 2022, 7, 364-376.	8.6	25
3	Role of melatonin in Alzheimer's disease: From preclinical studies to novel melatonin-based therapies. <i>Frontiers in Neuroendocrinology</i> , 2022, 65, 100986.	2.5	22
4	Biomimetic hierarchical implant surfaces promote early osseointegration in osteoporotic rats by suppressing macrophage activation and osteoclastogenesis. <i>Journal of Materials Chemistry B</i> , 2022, 10, 1875-1885.	2.9	5
5	Extrapolating neurogenesis of mesenchymal stem/stromal cells on electroactive and electroconductive scaffolds to dental and oral-derived stem cells. <i>International Journal of Oral Science</i> , 2022, 14, 13.	3.6	4
6	A novel gene-activated matrix composed of PEI/plasmid-BMP2 complexes and hydroxyapatite/chitosan-microspheres promotes bone regeneration. <i>Nano Research</i> , 2022, 15, 6348-6360.	5.8	11
7	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.	7.8	33
8	An overview of signaling pathways regulating YAP/TAZ activity. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 497-512.	2.4	59
9	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.	1.8	24
10	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.	2.6	23
11	Tendon Stem/Progenitor Cell Subpopulations and Their Implications in Tendon Biology. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 631272.	1.8	19
12	3D printing of chemical-empowered tendon stem/progenitor cells for functional tissue repair. <i>Biomaterials</i> , 2021, 271, 120722.	5.7	18
13	HtrA3-Mediated Endothelial Cell-Extracellular Matrix Crosstalk Regulates Tip Cell Specification. <i>Advanced Functional Materials</i> , 2021, 31, 2100633.	7.8	2
14	Bone Piezoelectricity-Mimicking Nanocomposite Membranes Enhance Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells by Amplifying Cell Adhesion and Actin Cytoskeleton. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1058-1067.	0.5	7
15	Restoration of electrical microenvironment enhances bone regeneration under diabetic conditions by modulating macrophage polarization. <i>Bioactive Materials</i> , 2021, 6, 2029-2038.	8.6	72
16	Biomimetic strategies for tendon/ligament-to-bone interface regeneration. <i>Bioactive Materials</i> , 2021, 6, 2491-2510.	8.6	50
17	Application of Stem Cell Therapy for ACL Graft Regeneration. <i>Stem Cells International</i> , 2021, 2021, 1-14.	1.2	4
18	Early-Stage Primary Anti-inflammatory Therapy Enhances the Regenerative Efficacy of Platelet-Rich Plasma in a Rabbit Achilles Tendinopathy Model. <i>American Journal of Sports Medicine</i> , 2021, 49, 3357-3371.	1.9	6

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19	Single-cell RNA-seq reveals functionally distinct biomaterial degradation-related macrophage populations. <i>Biomaterials</i> , 2021, 277, 121116.	5.7	10
20	Cell Membrane Vesicles with Enriched CXCR4 Display Enhances Their Targeted Delivery as Drug Carriers to Inflammatory Sites. <i>Advanced Science</i> , 2021, 8, e2101562.	5.6	17
21	Nanomaterial-based scaffolds for bone tissue engineering and regeneration. <i>Nanomedicine</i> , 2020, 15, 1995-2017.	1.7	41
22	Mitochondria transfer enhances proliferation, migration, and osteogenic differentiation of bone marrow mesenchymal stem cell and promotes bone defect healing. <i>Stem Cell Research and Therapy</i> , 2020, 11, 245.	2.4	55
23	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.	1.1	33
24	Characterization and Comparison of Postnatal Rat Meniscus Stem Cells at Different Developmental Stages. <i>Stem Cells Translational Medicine</i> , 2019, 8, 1318-1329.	1.6	7
25	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.	2.6	18
26	Pharmacological Inhibition of Rac1 Activity Prevents Pathological Calcification and Enhances Tendon Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3511-3522.	2.6	9
27	Local Delivery of Silk-Cellulose Incorporated with Stromal Cell-Derived Factor-1 \pm Functionally Improves the Uterus Repair. <i>Tissue Engineering - Part A</i> , 2019, 25, 1514-1526.	1.6	17
28	Small molecules enhance neurogenic differentiation of dental-derived adult stem cells. <i>Archives of Oral Biology</i> , 2019, 102, 26-38.	0.8	24
29	Sema4D/PlexinB1 promotes endothelial differentiation of dental pulp stem cells via activation of AKT and ERK1/2 signaling. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 13614-13624.	1.2	13
30	Human Embryonic Stem Cell-Derived Neural Lineages as <i>In Vitro</i> Models for Screening the Neuroprotective Properties of <i>Lignosus rhinocerus</i> (Cooke) Ryvardeen. <i>BioMed Research International</i> , 2019, 2019, 1-19.	0.9	6
31	The relationship between substrate topography and stem cell differentiation in the musculoskeletal system. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 505-521.	2.4	55
32	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1387-1397.	1.2	18
33	Lipoteichoic acid of <i>Enterococcus faecalis</i> inhibits osteoclastogenesis via transcription factor RBPJ. <i>Innate Immunity</i> , 2019, 25, 13-21.	1.1	10
34	The roles of inflammatory mediators and immunocytes in tendinopathy. <i>Journal of Orthopaedic Translation</i> , 2018, 14, 23-33.	1.9	64
35	Concise Review: Stem Cell Fate Guided By Bioactive Molecules for Tendon Regeneration. <i>Stem Cells Translational Medicine</i> , 2018, 7, 404-414.	1.6	41
36	EphrinB2 signaling enhances osteogenic/odontogenic differentiation of human dental pulp stem cells. <i>Archives of Oral Biology</i> , 2018, 87, 62-71.	0.8	18

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37	Therapeutic effects of gefitinib-encapsulated thermosensitive injectable hydrogel in intervertebral disc degeneration. <i>Biomaterials</i> , 2018, 160, 56-68.	5.7	44
38	Exogenous stromal derived factor-1 releasing silk scaffold combined with intra-articular injection of progenitor cells promotes bone-ligament-bone regeneration. <i>Acta Biomaterialia</i> , 2018, 71, 168-183.	4.1	50
39	Sophocarpine attenuates wear particle-induced implant loosening by inhibiting osteoclastogenesis and bone resorption via suppression of the NF- κ B signalling pathway in a rat model. <i>British Journal of Pharmacology</i> , 2018, 175, 859-876.	2.7	31
40	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.	3.3	124
41	Cepharanthine Prevents Estrogen Deficiency-Induced Bone Loss by Inhibiting Bone Resorption. <i>Frontiers in Pharmacology</i> , 2018, 9, 210.	1.6	18
42	EphrinB2 signalling modulates the neural differentiation of human dental pulp stem cells. <i>Biomedical Reports</i> , 2018, 9, 161-168.	0.9	6
43	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.	2.1	28
44	A systematic review: differentiation of stem cells into functional pericytes. <i>FASEB Journal</i> , 2017, 31, 1775-1786.	0.2	38
45	Decellularized Matrix Derived from Neural Differentiation of Embryonic Stem Cells Enhances the Neurogenic Potential of Dental Follicle Stem Cells. <i>Journal of Endodontics</i> , 2017, 43, 409-416.	1.4	14
46	Ectopic tissue engineered ligament with silk collagen scaffold for ACL regeneration: A preliminary study. <i>Acta Biomaterialia</i> , 2017, 53, 307-317.	4.1	22
47	Alignment of collagen fiber in knitted silk scaffold for functional massive rotator cuff repair. <i>Acta Biomaterialia</i> , 2017, 51, 317-329.	4.1	91
48	Biomimetic tendon extracellular matrix composite gradient scaffold enhances ligament-to-bone junction reconstruction. <i>Acta Biomaterialia</i> , 2017, 56, 129-140.	4.1	60
49	Reconstructing Lineage Hierarchies of Mouse Uterus Epithelial Development Using Single-Cell Analysis. <i>Stem Cell Reports</i> , 2017, 9, 381-396.	2.3	39
50	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.	1.9	85
51	Kdm6b regulates cartilage development and homeostasis through anabolic metabolism. <i>Annals of the Rheumatic Diseases</i> , 2017, 76, 1295-1303.	0.5	51
52	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.	1.4	21
53	Small molecule therapeutics for inflammation-associated chronic musculoskeletal degenerative diseases: Past, present and future. <i>Experimental Cell Research</i> , 2017, 359, 1-9.	1.2	17
54	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.	4.1	17

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55	TGF- β 1-induced differentiation of SHED into functional smooth muscle cells. <i>Stem Cell Research and Therapy</i> , 2017, 8, 10.	2.4	34
56	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.	1.6	104
57	Biomedical Applications of Dental and Oral-Derived Stem Cells. <i>Stem Cells International</i> , 2017, 2017, 1-2.	1.2	1
58	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.	2.4	326
59	PTH[1-34] improves the effects of core decompression in early-stage steroid-associated osteonecrosis model by enhancing bone repair and revascularization. <i>PLoS ONE</i> , 2017, 12, e0178781.	1.1	13
60	Current Advance and Future Prospects of Tissue Engineering Approach to Dentin/Pulp Regenerative Therapy. <i>Stem Cells International</i> , 2016, 2016, 1-13.	1.2	100
61	<i>Enterococcus faecalis</i> promotes osteoclast differentiation within an osteoblast/osteoclast co-culture system. <i>Biotechnology Letters</i> , 2016, 38, 1443-1448.	1.1	5
62	ING2 (inhibitor of growth protein-2) plays a crucial role in preimplantation development. <i>Zygote</i> , 2016, 24, 89-97.	0.5	7
63	Synergistic effects of elastic modulus and surface topology of Ti-based implants on early osseointegration. <i>RSC Advances</i> , 2016, 6, 43685-43696.	1.7	20
64	Single-cell analysis reveals a nestin ⁺ tendon stem/progenitor cell population with strong tenogenic potentiality. <i>Science Advances</i> , 2016, 2, e1600874.	4.7	100
65	Perspectives on Animal Models Utilized for the Research and Development of Regenerative Therapies for Articular Cartilage. <i>Current Molecular Biology Reports</i> , 2016, 2, 90-100.	0.8	10
66	EphrinB2 Stabilizes Vascularlike Structures Generated by Endothelial Cells and Stem Cells from Apical Papilla. <i>Journal of Endodontics</i> , 2016, 42, 1362-1370.	1.4	12
67	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.	5.8	109
68	Pharmacological Regulation of In Situ Tissue Stem Cells Differentiation for Soft Tissue Calcification Treatment. <i>Stem Cells</i> , 2016, 34, 1083-1096.	1.4	27
69	Pluripotent Human embryonic stem cell derived neural lineages for in vitro modelling of enterovirus 71 infection and therapy. <i>Virology Journal</i> , 2016, 13, 5.	1.4	7
70	The effects of lactate and acid on articular chondrocytes function: Implications for polymeric cartilage scaffold design. <i>Acta Biomaterialia</i> , 2016, 42, 329-340.	4.1	37
71	An Overview of Protocols for the Neural Induction of Dental and Oral Stem Cells <i>In Vitro</i> . <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 220-250.	2.5	49
72	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.	1.0	22

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73	Effects of Recombinant Overexpression of Bcl2 on the Proliferation, Apoptosis, and Osteogenic/Odontogenic Differentiation Potential of Dental Pulp Stem Cells. <i>Journal of Endodontics</i> , 2016, 42, 575-583.	1.4	13
74	Systemically Transplanted Bone Marrow-derived Cells Contribute to Dental Pulp Regeneration in a Chimeric Mouse Model. <i>Journal of Endodontics</i> , 2016, 42, 263-268.	1.4	10
75	Downregulation of Rac GTPase-Activating Protein OCRL1 Causes Aberrant Activation of Rac1 in Osteoarthritis Development. <i>Arthritis and Rheumatology</i> , 2015, 67, 2154-2163.	2.9	25
76	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.	3.9	60
77	Neural Differentiation of Human Pluripotent Stem Cells for Nontherapeutic Applications: Toxicology, Pharmacology, and <i>In Vitro</i> Disease Modeling. <i>Stem Cells International</i> , 2015, 2015, 1-11.	1.2	28
78	Local delivery of FTY720 in PCL membrane improves SCI functional recovery by reducing reactive astrogliosis. <i>Biomaterials</i> , 2015, 62, 76-87.	5.7	35
79	Prosthetic gene networks as an alternative to standard pharmacotherapies for metabolic disorders. <i>Current Opinion in Biotechnology</i> , 2015, 35, 37-45.	3.3	23
80	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.	5.7	130
81	Electrospun scaffolds for multiple tissues regeneration <i>in vivo</i> through topography dependent induction of lineage specific differentiation. <i>Biomaterials</i> , 2015, 44, 173-185.	5.7	129
82	Physical regulation of stem cells differentiation into teno-lineage: current strategies and future direction. <i>Cell and Tissue Research</i> , 2015, 360, 195-207.	1.5	32
83	Effects of deer age on the physicochemical properties of deproteinized antler cancellous bone: an approach to optimize osteoconductivity of bone graft. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 035006.	1.7	13
84	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.	5.7	154
85	Intra-Articular Transplantation of Atstrin-Transduced Mesenchymal Stem Cells Ameliorate Osteoarthritis Development. <i>Stem Cells Translational Medicine</i> , 2015, 4, 523-531.	1.6	48
86	Mohawk Promotes the Tenogenesis of Mesenchymal Stem Cells Through Activation of the TGF β Signaling Pathway. <i>Stem Cells</i> , 2015, 33, 443-455.	1.4	136
87	Inhibition of Rac1 activity by controlled release of NSC23766 from chitosan microspheres effectively ameliorates osteoarthritis development <i>in vivo</i> . <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 285-293.	0.5	56
88	Differential resistance of human embryonic stem cells and somatic cell types to hydrogen peroxide-induced genotoxicity may be dependent on innate basal intracellular ROS levels. <i>Folia Histochemica Et Cytobiologica</i> , 2015, 53, 169-174.	0.6	10
89	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.	1.6	16
90	17 β -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.	1.6	20

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91	Heterogeneity of baseline neural marker expression by undifferentiated mesenchymal stem cells may be correlated to donor age. <i>Journal of Biotechnology</i> , 2014, 174, 29-33.	1.9	10
92	G Proteinâ€“Coupled Receptors Revisited: Therapeutic Applications Inspired by Synthetic Biology. <i>Annual Review of Pharmacology and Toxicology</i> , 2014, 54, 227-249.	4.2	23
93	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.	1.6	86
94	Long-term effects of knitted silkâ€“collagen sponge scaffold on anterior cruciate ligament reconstruction and osteoarthritis prevention. <i>Biomaterials</i> , 2014, 35, 8154-8163.	5.7	84
95	A Biâ€“Lineage Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014, 24, 4473-4483.	7.8	80
96	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.	1.9	20
97	Fetal and adult fibroblasts display intrinsic differences in tendon tissue engineering and regeneration. <i>Scientific Reports</i> , 2014, 4, 5515.	1.6	55
98	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.	0.4	18
99	Title is missing!. <i>Journal of Medical and Biological Engineering</i> , 2014, 34, 130.	1.0	2
100	Cytotoxicity of hydroxyapatite nanoparticles is shape and cell dependent. <i>Archives of Toxicology</i> , 2013, 87, 1037-1052.	1.9	215
101	Design and Application of Synthetic Biology Devices for Therapy. , 2013, , 159-181.		1
102	The effect of decellularized matrices on human tendon stem/progenitor cell differentiation and tendon repair. <i>Acta Biomaterialia</i> , 2013, 9, 9317-9329.	4.1	126
103	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.	6.0	155
104	Wnt and Rho GTPase signaling in osteoarthritis development and intervention: implications for diagnosis and therapy. <i>Arthritis Research and Therapy</i> , 2013, 15, 217.	1.6	17
105	Incorporation of bioactive polyvinylpyrrolidoneâ€“iodine within bilayered collagen scaffolds enhances the differentiation and subchondral osteogenesis of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2013, 9, 8089-8098.	4.1	28
106	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.	5.7	78
107	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.	3.6	41
108	Effects of compatibility of deproteinized antler cancellous bone with various bioactive factors on their osteogenic potential. <i>Biomaterials</i> , 2013, 34, 9103-9114.	5.7	53

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109	RELATIONSHIP BETWEEN CELL FUNCTION AND INITIAL CELL SEEDING DENSITY OF PRIMARY PORCINE CHONDROCYTES <i>IN VITRO</i> . Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1340001.	0.3	6
110	Osteoarthritis Prevention Through Meniscal Regeneration Induced by Intra-Articular Injection of Meniscus Stem Cells. Stem Cells and Development, 2013, 22, 2071-2082.	1.1	52
111	Lentiviral-Encoded shRNA Silencing of Proteoglycan Decorin Enhances Tendon Repair and Regeneration within a Rat Model. Cell Transplantation, 2013, 22, 1507-1517.	1.2	15
112	Soluble molecules are key in maintaining the immunomodulatory activity of murine mesenchymal stromal cells. Journal of Cell Science, 2012, 125, 200-208.	1.2	40
113	Allogeneous Tendon Stem/Progenitor Cells in Silk Scaffold for Functional Shoulder Repair. Cell Transplantation, 2012, 21, 943-958.	1.2	119
114	Functional biomaterials for cartilage regeneration. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2526-2536.	2.1	79
115	Osteoconductive effectiveness of bone graft derived from antler cancellous bone: an experimental study in the rabbit mandible defect model. International Journal of Oral and Maxillofacial Surgery, 2012, 41, 1330-1337.	0.7	34
116	Clinical outcome of fresh and vitrified-warmed blastocyst and cleavage-stage embryo transfers in ethnic Chinese ART patients. Journal of Ovarian Research, 2012, 5, 27.	1.3	15
117	Translating Human Embryonic Stem Cells from 2-Dimensional to 3-Dimensional Cultures in a Defined Medium on Laminin- and Vitronectin-Coated Surfaces. Stem Cells and Development, 2012, 21, 1701-1715.	1.1	61
118	Effect of cell-seeding density on the proliferation and gene expression profile of human umbilical vein endothelial cells within ex vivo culture. Cytotherapy, 2011, 13, 606-617.	0.3	32
119	Single-Phase Dy ₂ O ₃ :Tb ³⁺ Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. Chemistry of Materials, 2011, 23, 2439-2446.	3.2	76
120	Vitrified-warmed blastocyst transfer cycles yield higher pregnancy and implantation rates compared with fresh blastocyst transfer cycles—time for a new embryo transfer strategy?. Fertility and Sterility, 2011, 95, 1691-1695.	0.5	123
121	The role of the tumor suppressor p53 pathway in the cellular DNA damage response to zinc oxide nanoparticles. Biomaterials, 2011, 32, 8218-8225.	5.7	185
122	Cellular uptake of Poly(D,L-lactide-co-glycolide) (PLGA) nanoparticles synthesized through solvent evaporation and nanoprecipitation method. Biotechnology Journal, 2011, 6, 501-508.	1.8	52
123	Seeding density matters: extensive intercellular contact masks the surface dependence of endothelial cell-biomaterial interactions. Journal of Materials Science: Materials in Medicine, 2011, 22, 389-396.	1.7	9
124	Cytotoxicity of zinc oxide (ZnO) nanoparticles is influenced by cell density and culture format. Archives of Toxicology, 2011, 85, 695-704.	1.9	74
125	Evaluation of the cytotoxic and inflammatory potential of differentially shaped zinc oxide nanoparticles. Archives of Toxicology, 2011, 85, 1517-1528.	1.9	171
126	Comparison of the adhesion and proliferation characteristics of HUVEC and two endothelial cell lines (CRL 2922 and CRL 2873) on various substrata. Biotechnology and Bioprocess Engineering, 2011, 16, 127-135.	1.4	5

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127	<i>In vitro</i> assessment of cellular responses to rod-shaped hydroxyapatite nanoparticles of varying lengths and surface areas. <i>Nanotoxicology</i> , 2011, 5, 182-194.	1.6	55
128	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.	5.7	150
129	Efficacy of hESC-MSCs in knitted silk-collagen scaffold for tendon tissue engineering and their roles. <i>Biomaterials</i> , 2010, 31, 9438-9451.	5.7	209
130	Cellular behavior of human mesenchymal stem cells cultured on single-walled carbon nanotube film. <i>Carbon</i> , 2010, 48, 1095-1104.	5.4	94
131	Induced adult stem (IAS) cells and induced transit amplifying progenitor (iTAP) cells-a possible alternative to induced pluripotent stem (iPS) cells?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 159-162.	1.3	7
132	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133 ⁺ endothelial progenitor cells for cardiac repair. <i>Regenerative Medicine</i> , 2010, 5, 231-244.	0.8	58
133	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.	0.6	17
134	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.	0.6	31
135	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.	1.8	162
136	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. <i>Langmuir</i> , 2010, 26, 8959-8965.	1.6	158
137	Reduction in exposure of human embryos outside the incubator enhances embryo quality and blastulation rate. <i>Reproductive BioMedicine Online</i> , 2010, 20, 510-515.	1.1	94
138	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.	1.2	62
139	Are stem cells inherently more prone to cryopreservation-induced apoptosis compared to ordinary somatic cells?. <i>Human Reproduction</i> , 2009, 24, 492-492.	0.4	5
140	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.	1.2	43
141	Comparison of Enzymatic and Non-Enzymatic Means of Dissociating Adherent Monolayers of Mesenchymal Stem Cells. <i>Biological Procedures Online</i> , 2009, 11, 161-9.	1.4	39
142	Induced pluripotent stem cells: a new tool for toxicology screening?. <i>Archives of Toxicology</i> , 2009, 83, 641-644.	1.9	25
143	Electrostatic binding of nanoparticles to mesenchymal stem cells via high molecular weight polyelectrolyte chains. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 243-254.	1.3	8
144	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.	1.0	72

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145	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.	2.1	18
146	Effect of cryotop vitrification on preimplantation developmental competence of murine morula and blastocyst stage embryos. <i>Reproductive BioMedicine Online</i> , 2009, 19, 708-713.	1.1	22
147	Transcatheter Injection-Induced Changes in Human Bone Marrow-Derived Mesenchymal Stem Cells. <i>Cell Transplantation</i> , 2009, 18, 1111-1121.	1.2	27
148	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.	1.7	85
149	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.	1.0	24
150	Differentiated Fibroblastic Progenies of Human Embryonic Stem Cells for Toxicology Screening. <i>Cloning and Stem Cells</i> , 2008, 10, 1-10.	2.6	31
151	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.	1.6	28
152	Induced Pluripotent Stem Cells (iPSC) can direct delivery of transcription factors into the cytosol overcome the perils of permanent genetic modification?. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2008, 17, 326-327.	0.6	5
153	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.	1.1	20
154	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.	0.6	88
155	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.	1.4	139
156	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.	1.4	25
157	Directing endothelial differentiation of human embryonic stem cells via transduction with an adenoviral vector expressing the VEGF165 gene. <i>Journal of Gene Medicine</i> , 2007, 9, 452-461.	1.4	55
158	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.	1.4	20
159	Caspase Inhibitor Z-VAD-FMK Enhances the Freeze-Thaw Survival Rate of Human Embryonic Stem Cells. <i>Bioscience Reports</i> , 2007, 27, 257-264.	1.1	53
160	Differentiation of Human Embryonic Stem Cells Toward the Chondrogenic Lineage. <i>Methods in Molecular Biology</i> , 2007, 407, 333-349.	0.4	16
161	MILIEU-BASED VERSUS GENE-MODULATORY STRATEGIES FOR DIRECTING STEM CELL DIFFERENTIATION A MAJOR ISSUE OF CONTENTION IN TRANSPLANTATION MEDICINE. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2006, 42, 51.	0.7	8
162	HUMAN EMBRYONIC STEM CELL (hES) COLONIES DISPLAY A HIGHER DEGREE OF SPONTANEOUS DIFFERENTIATION WHEN PASSAGED AT LOWER DENSITIES. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2006, 42, 54.	0.7	10

#	ARTICLE	IF	CITATIONS
163	Mammalian oocyte polarity can be exploited for the automation of somatic cell nuclear transfer " in the development of a "cloning biochip"™. Medical Hypotheses, 2006, 67, 420-421.	0.8	3
164	Low temperature tolerance of human embryonic stem cells. International Journal of Medical Sciences, 2006, 3, 124-129.	1.1	20
165	New Perspectives in Chondrogenic Differentiation of Stem Cells for Cartilage Repair. Scientific World Journal, The, 2006, 6, 361-364.	0.8	3
166	Mesenchymal Stem Cell Sheets Revitalize Nonviable Dense Grafts: Implications for Repair of Large-Bone and Tendon Defects. Transplantation, 2006, 82, 170-174.	0.5	82
167	Exposure of mouse cumulus cell nuclei to porcine ooplasmic extract eliminates TATA box protein binding to chromatin, but has no effect on DNA methylation. Journal of Assisted Reproduction and Genetics, 2006, 23, 413-419.	1.2	4
168	Aberrant profile of gene expression in cloned mouse embryos derived from donor cumulus nuclei. Cell and Tissue Research, 2006, 325, 231-243.	1.5	16
169	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. Journal of Biomedical Science, 2006, 13, 433-445.	2.6	108
170	Osteoarthritis and therapy. Arthritis and Rheumatism, 2006, 55, 493-500.	6.7	98
171	Can the Therapeutic Advantages of Allogenic Umbilical Cord Blood???Derived Stem Cells and Autologous Bone Marrow???Derived Mesenchymal Stem Cells Be Combined and Synergized?. ASAIO Journal, 2006, 52, 611-613.	0.9	3
172	Kinetics of cell death of frozen-thawed human embryonic stem cell colonies is reversibly slowed down by exposure to low temperature. Zygote, 2006, 14, 341-348.	0.5	17
173	The Immunogenicity and Immunomodulatory Function of Osteogenic Cells Differentiated from Mesenchymal Stem Cells. Journal of Immunology, 2006, 176, 2864-2871.	0.4	186
174	The cryopreservation of human embryonic stem cells. Biotechnology and Applied Biochemistry, 2005, 41, 97.	1.4	56
175	Factors influencing stem cell differentiation into the hepatic lineage <i>in vitro</i>. Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 975-987.	1.4	25
176	Directing stem cells into the keratinocyte lineage in vitro. Experimental Dermatology, 2005, 14, 1-16.	1.4	34
177	Co-transplantation of autologous adult stem cells together with differentiated derivatives of human embryonic stem cells. A novel strategy to enhance the efficacy of autologous cell-transplantation therapy?. Wound Repair and Regeneration, 2005, 13, 353-356.	1.5	0
178	Potential applications of intracellular antibodies (intrabodies) in stem cell therapeutics. Journal of Cellular and Molecular Medicine, 2005, 9, 191-195.	1.6	3
179	Comparison of different test models for the assessment of cytotoxicity of composite resins. Journal of Applied Toxicology, 2005, 25, 101-108.	1.4	57
180	Reduced mitotic activity at the periphery of human embryonic stem cell colonies cultured in vitro with mitotically-inactivated murine embryonic fibroblast feeder cells. Cell Biochemistry and Function, 2005, 23, 141-146.	1.4	10

#	ARTICLE	IF	CITATIONS
181	Modulating gene expression in stem cells without recombinant DNA and permanent genetic modification. <i>Cell and Tissue Research</i> , 2005, 321, 147-150.	1.5	12
182	Utilising human embryonic stem cells as "catalysts" for biological repair and regeneration. Challenges and some possible strategies. <i>Clinical and Experimental Medicine</i> , 2005, 5, 40-42.	1.9	8
183	"Waste" Follicular Aspirate from Fertility Treatment—A Potential Source of Human Germline Stem Cells?. <i>Stem Cells and Development</i> , 2005, 14, 11-14.	1.1	8
184	Possible Advantages of Stem Cell Transfusion into the Peripheral Circulation, As Opposed to Localized Transplantation In Situ. <i>Stem Cells and Development</i> , 2005, 14, 351-353.	1.1	3
185	Reply to Letter from Drs. Haider and Ashraf. <i>ASAIO Journal</i> , 2005, 51, 302.	0.9	0
186	Utilizing stem cells for myocardial repair "to differentiate or not to differentiate prior to transplantation?. <i>Scandinavian Cardiovascular Journal</i> , 2005, 39, 131-134.	0.4	3
187	Combined effects of TGF β 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.	0.5	100
188	Reprogramming autologous skeletal myoblasts to express cardiomyogenic function. Challenges and possible approaches. <i>International Journal of Cardiology</i> , 2005, 100, 355-362.	0.8	8
189	Incorporating protein transduction domains (PTD) within intracellular proteins associated with the "stemness" phenotype. Novel use of such recombinant "fusion" proteins to overcome current limitations of applying autologous adult stem cells in regenerative medicine?. <i>Medical Hypotheses</i> , 2005, 64, 992-996.	0.8	5
190	Transplanted human embryonic stem cells as biological "catalysts" for tissue repair and regeneration. <i>Medical Hypotheses</i> , 2005, 64, 1085-1088.	0.8	23
191	Can the high nuclear to cytoplasmic ratio of human embryonic stem cells make them more vulnerable to physical stress encountered with bulk-passage protocols?. <i>Medical Hypotheses</i> , 2005, 64, 1242-1243.	0.8	6
192	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.	0.8	44
193	Making cell-permeable recombinant telomerase (trans-telomerase) through fusion of its catalytic subunit (hTERT) with protein transduction domains (PTD): A possible strategy to overcome replicative senescence during ex vivo culture of primary explanted cells. <i>Medical Hypotheses</i> , 2005, 65, 199-200.	0.8	2
194	Could the transit-amplifying stage of stem cell differentiation be the most suited for transplantation purposes?. <i>Medical Hypotheses</i> , 2005, 65, 412-413.	0.8	3
195	Immunoliposome-mediated delivery of neomycin phosphotransferase for the lineage-specific selection of differentiated/committed stem cell progenies: Potential advantages over transfection with marker genes, fluorescence-activated and magnetic affinity cell-sorting. <i>Medical Hypotheses</i> , 2005, 65, 334-336.	0.8	2
196	Scaffold implants for the controlled release of heparan sulfate (HS) and other glycosaminoglycan (GAG) species: This could facilitate the homing of adult stem cells for tissue/organ regeneration. <i>Medical Hypotheses</i> , 2005, 65, 414-415.	0.8	3
197	Combining transfusion of stem/progenitor cells into the peripheral circulation with localized transplantation in situ at the site of tissue/organ damage: A possible strategy to optimize the efficacy of stem cell transplantation therapy. <i>Medical Hypotheses</i> , 2005, 65, 494-497.	0.8	3
198	Combining RNA interference with PTD-fusion transcription factors: A novel integrated strategy for achieving trans-differentiation of adult stem cells?. <i>Medical Hypotheses</i> , 2005, 65, 992-993.	0.8	1

#	ARTICLE	IF	CITATIONS
199	Differentiation therapy of cancer. Potential advantages over conventional therapeutic approaches targeting death of cancer/tumor cells. <i>Medical Hypotheses</i> , 2005, 65, 1202-1203.	0.8	10
200	Incorporating protein transduction domains (PTD) within recombinant "fusion"™ transcription factors. A novel strategy for directing stem cell differentiation?. <i>Biomedicine and Pharmacotherapy</i> , 2005, 59, 132-134.	2.5	13
201	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.	1.0	72
202	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.	0.7	21
203	Comments about possible use of human embryonic stem cell-derived cardiomyocytes to direct autologous adult stem cells into the cardiomyogenic lineage. <i>Acta Cardiologica</i> , 2005, 60, 7-12.	0.3	14
204	Late-adhering human embryonic stem cell clumps during serial passage can yield morphologically 'normal-looking' colonies. <i>Annals of Clinical and Laboratory Science</i> , 2005, 35, 459-62.	0.2	2
205	Effects of elevated temperature in vivo on the maturational and developmental competence of porcine germinal vesicle stage oocytes. <i>Journal of Animal Science</i> , 2004, 82, 3175-3180.	0.2	14
206	Potential Utility of Cell-Permeable Transcription Factors to Direct Stem Cell Differentiation. <i>Stem Cells and Development</i> , 2004, 13, 460-462.	1.1	6
207	Directing Stem Cell Differentiation into the Chondrogenic Lineage In Vitro. <i>Stem Cells</i> , 2004, 22, 1152-1167.	1.4	225
208	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.	3.1	144
209	An overview and synopsis of techniques for directing stem cell differentiation in vitro. <i>Cell and Tissue Research</i> , 2004, 315, 291-303.	1.5	63
210	Can RNA interference be used to expand the plasticity of autologous adult stem cells?. <i>Journal of Molecular Medicine</i> , 2004, 82, 784-786.	1.7	5
211	Strategies for the cryopreservation of microencapsulated cells. <i>Biotechnology and Bioengineering</i> , 2004, 85, 202-213.	1.7	26
212	Strategies for directing the differentiation of stem cells into the cardiomyogenic lineage in vitro. <i>Cardiovascular Research</i> , 2004, 62, 34-42.	1.8	159
213	Slow-cooling protocols for microcapsule cryopreservation. <i>Journal of Microencapsulation</i> , 2004, 21, 455-467.	1.2	15
214	FEEDER CELL DENSITY" A KEY PARAMETER IN HUMAN EMBRYONIC STEM CELL CULTURE. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2004, 40, 255.	0.7	28
215	Effects of granulosa coculture on in-vitro oocyte meiotic maturation within a putatively less competent murine model. <i>Theriogenology</i> , 2004, 62, 1066-1092.	0.9	14
216	HUMAN EMBRYONIC STEM CELL" DERIVED FIBROBLASTIC AND EPITHELOID LINEAGES AS XENO-FREE SUPPORT?. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2004, 40, 129.	0.7	2

#	ARTICLE	IF	CITATIONS
217	DOWNREGULATION OF TRANSCRIPTION FACTORS BY RIBONUCLEIC ACID INTERFERENCE. A NOVEL APPROACH TO EXTEND THE MULTIPOTENCY OF AUTOLOGOUS ADULT STEM CELLS?. In Vitro Cellular and Developmental Biology - Animal, 2004, 40, 131.	0.7	0
218	The Differentiation Status of Stem Cells and Their Derivatives: A Key Consideration in Transplantation Medicine. ASAIO Journal, 2004, 50, 626-628.	0.9	2
219	The analysis of intermolecular interactions in concentrated hyaluronan solutions suggest no evidence for chain-chain association. Biochemical Journal, 2000, 350, 329.	1.7	39
220	The analysis of intermolecular interactions in concentrated hyaluronan solutions suggest no evidence for chain-chain association. Biochemical Journal, 2000, 350, 329-335.	1.7	63
221	The Molecular Basis of the Solution Properties of Hyaluronan Investigated by Confocal Fluorescence Recovery After Photobleaching. Biophysical Journal, 1999, 77, 2210-2216.	0.2	104
222	New approaches to the investigation of hyaluronan networks. Biochemical Society Transactions, 1999, 27, 124-127.	1.6	8
223	Effect of Cutting Fluid Supply Strategies on Surface Finish of Turned Parts. Advanced Materials Research, 0, 383-390, 4576-4584.	0.3	3