

# Toh, Wei Seong

## List of Publications by Citations

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77  
papers

7,972  
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33  
h-index

84  
g-index

84  
ext. papers

10,735  
ext. citations

5.8  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
77	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , <b>2018</b> , 7, 1535750	16.4	3642
76	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. <i>Biomaterials</i> , <b>2018</b> , 156, 16-27	15.6	384
75	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. <i>Osteoarthritis and Cartilage</i> , <b>2016</b> , 24, 2135-2140	6.2	354
74	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. <i>Seminars in Cell and Developmental Biology</i> , <b>2017</b> , 67, 56-64	7.5	234
73	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. <i>Journal of Extracellular Vesicles</i> , <b>2019</b> , 8, 1609206	16.4	227
72	Modulation of mesenchymal stem cell chondrogenesis in a tunable hyaluronic acid hydrogel microenvironment. <i>Biomaterials</i> , <b>2012</b> , 33, 3835-45	15.6	218
71	Cartilage repair using hyaluronan hydrogel-encapsulated human embryonic stem cell-derived chondrogenic cells. <i>Biomaterials</i> , <b>2010</b> , 31, 6968-80	15.6	206
70	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1730-1739	6.9	177
69	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. <i>Biomaterials</i> , <b>2019</b> , 200, 35-47	15.6	171
68	MSC exosome works through a protein-based mechanism of action. <i>Biochemical Society Transactions</i> , <b>2018</b> , 46, 843-853	5.1	137
67	Modulation of chondrocyte functions and stiffness-dependent cartilage repair using an injectable enzymatically crosslinked hydrogel with tunable mechanical properties. <i>Biomaterials</i> , <b>2014</b> , 35, 2207-17	15.6	130
66	Advances in hydrogel delivery systems for tissue regeneration. <i>Materials Science and Engineering C</i> , <b>2014</b> , 45, 690-7	8.3	125
65	Effects of culture conditions and bone morphogenetic protein 2 on extent of chondrogenesis from human embryonic stem cells. <i>Stem Cells</i> , <b>2007</b> , 25, 950-60	5.8	124
64	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> , <b>2006</b> , 13, 433-45	13.3	98
63	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 89, 252-264	10.8	87
62	Combined effects of TGFbeta1 and BMP2 in serum-free chondrogenic differentiation of mesenchymal stem cells induced hyaline-like cartilage formation. <i>Growth Factors</i> , <b>2005</b> , 23, 313-21	1.6	86
61	Advances in mesenchymal stem cell-based strategies for cartilage repair and regeneration. <i>Stem Cell Reviews and Reports</i> , <b>2014</b> , 10, 686-96	6.4	85

60	The effect of injectable gelatin-hydroxyphenylpropionic acid hydrogel matrices on the proliferation, migration, differentiation and oxidative stress resistance of adult neural stem cells. <i>Biomaterials</i> , <b>2012</b> , 33, 3446-55	15.6	80
59	Potential of human embryonic stem cells in cartilage tissue engineering and regenerative medicine. <i>Stem Cell Reviews and Reports</i> , <b>2011</b> , 7, 544-59	6.4	74
58	Cellular senescence in aging and osteoarthritis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2016</b> , 87, 6-14	4.3	66
57	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> , <b>2005</b> , 37, 325-34	2.7	65
56	International Society for Extracellular Vesicles and International Society for Cell and Gene Therapy statement on extracellular vesicles from mesenchymal stromal cells and other cells: considerations for potential therapeutic agents to suppress coronavirus disease-19. <i>Cytotherapy</i> , <b>2020</b> , 22, 482-485	4.8	59
55	Differentiation and enrichment of expandable chondrogenic cells from human embryonic stem cells in vitro. <i>Journal of Cellular and Molecular Medicine</i> , <b>2009</b> , 13, 3570-90	5.6	55
54	Identification of nephrotoxic compounds with embryonic stem-cell-derived human renal proximal tubular-like cells. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 1982-90	5.6	52
53	Biomaterial-mediated delivery of microenvironmental cues for repair and regeneration of articular cartilage. <i>Molecular Pharmaceutics</i> , <b>2011</b> , 8, 994-1001	5.6	51
52	Chemotactic recruitment of adult neural progenitor cells into multifunctional hydrogels providing sustained SDF-1 $\alpha$ release and compatible structural support. <i>FASEB Journal</i> , <b>2013</b> , 27, 1023-33	0.9	50
51	Depth of cure of contemporary bulk-fill resin-based composites. <i>Dental Materials Journal</i> , <b>2016</b> , 35, 503-10	1.9	47
50	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133+ endothelial progenitor cells for cardiac repair. <i>Regenerative Medicine</i> , <b>2010</b> , 5, 231-44	2.5	45
49	Stage-dependent effect of TGF-beta1 on chondrogenic differentiation of human embryonic stem cells. <i>Stem Cells and Development</i> , <b>2009</b> , 18, 929-40	4.4	41
48	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. <i>Cytotherapy</i> , <b>2021</b> , 23, 373-380	4.8	41
47	Mesenchymal stem cell exosomes in bone regenerative strategies-a systematic review of preclinical studies. <i>Materials Today Bio</i> , <b>2020</b> , 7, 100067	9.9	40
46	Directing endothelial differentiation of human embryonic stem cells via transduction with an adenoviral vector expressing the VEGF(165) gene. <i>Journal of Gene Medicine</i> , <b>2007</b> , 9, 452-61	3.5	40
45	Establishment of clinically compliant human embryonic stem cells in an autologous feeder-free system. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 927-37	2.9	35
44	Differentiation of human embryonic stem cells into clinically amenable keratinocytes in an autogenic environment. <i>Journal of Investigative Dermatology</i> , <b>2013</b> , 133, 618-628	4.3	33
43	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. <i>Cytotherapy</i> , <b>2018</b> , 20, 1419-1426	4.8	33

42	Adipose Tissue and Extracellular Matrix Development by Injectable Decellularized Adipose Matrix Loaded with Basic Fibroblast Growth Factor. <i>Plastic and Reconstructive Surgery</i> , <b>2016</b> , 137, 1171-1180	2.7	31
41	Intra-Articular Injections of Mesenchymal Stem Cell Exosomes and Hyaluronic Acid Improve Structural and Mechanical Properties of Repaired Cartilage in a Rabbit Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2020</b> , 36, 2215-2228.e2	5.4	30
40	Equivalent 10-Year Outcomes After Implantation of Autologous Bone Marrow-Derived Mesenchymal Stem Cells Versus Autologous Chondrocyte Implantation for Chondral Defects of the Knee. <i>American Journal of Sports Medicine</i> , <b>2019</b> , 47, 2881-2887	6.8	29
39	Distribution of Basement Membrane Molecules, Laminin and Collagen Type IV, in Normal and Degenerated Cartilage Tissues. <i>Cartilage</i> , <b>2014</b> , 5, 123-32	3	29
38	Modulation of Dental Pulp Stem Cell Odontogenesis in a Tunable PEG-Fibrinogen Hydrogel System. <i>Stem Cells International</i> , <b>2015</b> , 2015, 525367	5	25
37	Human fibroblast matrices bio-assembled under macromolecular crowding support stable propagation of human embryonic stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, e74-86	4.4	25
36	Autologous feeder cells from embryoid body outgrowth support the long-term growth of human embryonic stem cells more effectively than those from direct differentiation. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 719-33	2.9	25
35	A subpopulation of mesenchymal stromal cells with high osteogenic potential. <i>Journal of Cellular and Molecular Medicine</i> , <b>2009</b> , 13, 2436-2447	5.6	25
34	In vitro derivation of chondrogenic cells from human embryonic stem cells. <i>Methods in Molecular Biology</i> , <b>2010</b> , 584, 317-31	1.4	25
33	Stem Cells for Temporomandibular Joint Repair and Regeneration. <i>Stem Cell Reviews and Reports</i> , <b>2015</b> , 11, 728-42	6.4	24
32	The role of laminins in cartilaginous tissues: from development to regeneration. <i>European Cells and Materials</i> , <b>2017</b> , 34, 40-54	4.3	24
31	Mesenchymal Stem Cell Exosomes for Cartilage Regeneration: A Systematic Review of Preclinical Studies. <i>Tissue Engineering - Part B: Reviews</i> , <b>2021</b> , 27, 1-13	7.9	24
30	In Vitro Biocompatibility of Contemporary Bulk-fill Composites. <i>Operative Dentistry</i> , <b>2015</b> , 40, 644-52	2.9	23
29	Basement membrane molecule expression attendant to chondrogenesis by nucleus pulposus cells and mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , <b>2013</b> , 31, 1136-43	3.8	23
28	Distribution of pericellular matrix molecules in the temporomandibular joint and their chondroprotective effects against inflammation. <i>International Journal of Oral Science</i> , <b>2017</b> , 9, 43-52	27.9	22
27	An autologous cell lysate extract from human embryonic stem cell (hESC) derived osteoblasts can enhance osteogenesis of hESC. <i>Tissue and Cell</i> , <b>2008</b> , 40, 219-28	2.7	22
26	Culture media conditioned by heat-shocked osteoblasts enhances the osteogenesis of bone marrow-derived mesenchymal stromal cells. <i>Cell Biochemistry and Function</i> , <b>2007</b> , 25, 267-76	4.2	20
25	Substrate stiffness modulates the multipotency of human neural crest derived ectomesenchymal stem cells via CD44 mediated PDGFR signaling. <i>Biomaterials</i> , <b>2018</b> , 167, 153-167	15.6	18

24	Kinetics of cell death of frozen-thawed human embryonic stem cell colonies is reversibly slowed down by exposure to low temperature. <i>Zygote</i> , <b>2006</b> , 14, 341-8	1.6	16
23	Differentiation of human embryonic stem cells toward the chondrogenic lineage. <i>Methods in Molecular Biology</i> , <b>2007</b> , 407, 333-49	1.4	16
22	Differential effects of the extracellular microenvironment on human embryonic stem cell differentiation into keratinocytes and their subsequent replicative life span. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1432-43	3.9	13
21	Collagen Type IV and Laminin Expressions during Cartilage Repair and in Late Clinically Failed Repair Tissues From Human Subjects. <i>Cartilage</i> , <b>2016</b> , 7, 52-61	3	12
20	Potential applications of keratinocytes derived from human embryonic stem cells. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 58-70	5.6	12
19	Inducing pluripotency for disease modeling, drug development and craniofacial applications. <i>Expert Opinion on Biological Therapy</i> , <b>2014</b> , 14, 1233-40	5.4	10
18	Derivation of Chondrogenic Cells from Human Embryonic Stem Cells for Cartilage Tissue Engineering. <i>Methods in Molecular Biology</i> , <b>2014</b> , 263	1.4	9
17	Comparison of cytotoxicity test models for evaluating resin-based composites. <i>Human and Experimental Toxicology</i> , <b>2017</b> , 36, 339-348	3.4	8
16	Exploiting Stem Cell-Extracellular Matrix Interactions for Cartilage Regeneration: A Focus on Basement Membrane Molecules. <i>Current Stem Cell Research and Therapy</i> , <b>2016</b> , 11, 618-625	3.6	8
15	Investigation of human embryonic stem cell-derived keratinocytes as an in vitro research model for mechanical stress dynamic response. <i>Stem Cell Reviews and Reports</i> , <b>2015</b> , 11, 460-73	6.4	7
14	Intra-articular Injections of Mesenchymal Stem Cells Without Adjuvant Therapies for Knee Osteoarthritis: A Systematic Review and Meta-analysis. <i>American Journal of Sports Medicine</i> , <b>2021</b> , 49, 3113-3124	6.8	6
13	New perspectives in chondrogenic differentiation of stem cells for cartilage repair. <i>Scientific World Journal, The</i> , <b>2006</b> , 6, 361-4	2.2	3
12	Recent Progress in Stem Cell Chondrogenesis <b>2014</b> , 1, 7		3
11	Hydrogels for Stem Cell Fate Control and Delivery in Regenerative Medicine. <i>Series in Bioengineering</i> , <b>2015</b> , 187-214	0.7	3
10	Injectable Hydrogels for Cartilage Regeneration. <i>Gels Horizons: From Science To Smart Materials</i> , <b>2018</b> , 315-337		3
9	Stem Cells: Microenvironment, Micro/Nanotechnology, and Application. <i>Stem Cells International</i> , <b>2015</b> , 2015, 398510	5	1
8	Macrophage Polarization as a Facile Strategy to Enhance Efficacy of Macrophage Membrane-Coated Nanoparticles in Osteoarthritis. <i>Small Science</i> , 2100116		1
7	Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model.. <i>American Journal of Sports Medicine</i> , <b>2022</b> , 3635465211068129	6.8	1

6	Repair and Regeneration of Temporomandibular Joint: The Future of Stem Cell-Based Therapies. <i>Stem Cells in Clinical Applications</i> , <b>2016</b> , 47-75	0.3	1
5	Substrates and Surfaces for Control of Pluripotent Stem Cell Fate and Function <b>2016</b> , 343-380		1
4	Mesenchymal stromal cell-derived small extracellular vesicles modulate macrophage polarization and enhance angio-osteogenesis to promote bone healing. <i>Genes and Diseases</i> , <b>2021</b> , 9, 841-841	6.6	1
3	Practical considerations in transforming MSC therapy for neurological diseases from cell to EV.. <i>Experimental Neurology</i> , <b>2021</b> , 349, 113953	5.7	0
2	Mesenchymal Stem Cell Extracellular Vesicles as Adjuvant to Bone Marrow Stimulation in Chondral Defect Repair in a Minipig Model. <i>Cartilage</i> , <b>2021</b> , 19476035211029707	3	0
1	Stem Cells for Articular Cartilage Repair and Regeneration. <i>Stem Cells in Clinical Applications</i> , <b>2016</b> , 119-147		