

Ruenn Chai Lai

List of Publications by Year in descending order

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44
papers

12,335
citations

109321

35
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243625

44
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all docs

46
docs citations

46
times ranked

12665
citing authors

#	ARTICLE	IF	CITATIONS
1	Exosome secreted by MSC reduces myocardial ischemia/reperfusion injury. <i>Stem Cell Research</i> , 2010, 4, 214-222.	0.7	1,831
2	Mesenchymal stem cell-derived exosomes increase ATP levels, decrease oxidative stress and activate PI3K/Akt pathway to enhance myocardial viability and prevent adverse remodeling after myocardial ischemia/reperfusion injury. <i>Stem Cell Research</i> , 2013, 10, 301-312.	0.7	932
3	Mesenchymal stem cell: An efficient mass producer of exosomes for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 336-341.	13.7	660
4	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. <i>Biomaterials</i> , 2018, 156, 16-27.	11.4	606
5	Mesenchymal stem cell secretes microparticles enriched in pre-microRNAs. <i>Nucleic Acids Research</i> , 2010, 38, 215-224.	14.5	562
6	Mesenchymal Stem Cells Secrete Immunologically Active Exosomes. <i>Stem Cells and Development</i> , 2014, 23, 1233-1244.	2.1	533
7	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 2135-2140.	1.3	480
8	Mesenchymal stem cell exosome: a novel stem cell-based therapy for cardiovascular disease. <i>Regenerative Medicine</i> , 2011, 6, 481-492.	1.7	477
9	Hypoxic Tumor Cell Modulates Its Microenvironment to Enhance Angiogenic and Metastatic Potential by Secretion of Proteins and Exosomes. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1085-1099.	3.8	459
10	Mesenchymal stem cell-derived exosomes promote hepatic regeneration in drug-induced liver injury models. <i>Stem Cell Research and Therapy</i> , 2014, 5, 76.	5.5	434
11	Exosomes for drug delivery – a novel application for the mesenchymal stem cell. <i>Biotechnology Advances</i> , 2013, 31, 543-551.	11.7	431
12	Mesenchymal stem cell exosomes. <i>Seminars in Cell and Developmental Biology</i> , 2015, 40, 82-88.	5.0	417
13	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1609206.	12.2	400
14	Proteolytic Potential of the MSC Exosome Proteome: Implications for an Exosome-Mediated Delivery of Therapeutic Proteasome. <i>International Journal of Proteomics</i> , 2012, 2012, 1-14.	2.0	394
15	Human mesenchymal stem cell-conditioned medium improves cardiac function following myocardial infarction. <i>Stem Cell Research</i> , 2011, 6, 206-214.	0.7	379
16	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. <i>Seminars in Cell and Developmental Biology</i> , 2017, 67, 56-64.	5.0	351
17	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. <i>Biomaterials</i> , 2019, 200, 35-47.	11.4	329
18	Enabling a robust scalable manufacturing process for therapeutic exosomes through oncogenic immortalization of human ESC-derived MSCs. <i>Journal of Translational Medicine</i> , 2011, 9, 47.	4.4	323

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19	MSC exosome works through a protein-based mechanism of action. <i>Biochemical Society Transactions</i> , 2018, 46, 843-853.	3.4	252
20	Elucidating the Secretion Proteome of Human Embryonic Stem Cell-derived Mesenchymal Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 1680-1689.	3.8	240
21	MSC secretes at least 3 EV types each with a unique permutation of membrane lipid, protein and RNA. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 29828.	12.2	187
22	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. <i>Acta Biomaterialia</i> , 2019, 89, 252-264.	8.3	170
23	Mesenchymal stromal cell exosome-enhanced regulatory T-cell production through an antigen-presenting cell-mediated pathway. <i>Cytotherapy</i> , 2018, 20, 687-696.	0.7	162
24	Immunotherapeutic Potential of Extracellular Vesicles. <i>Frontiers in Immunology</i> , 2014, 5, 518.	4.8	145
25	An improved injectable polysaccharide hydrogel: modified gellan gum for long-term cartilage regeneration in vitro. <i>Journal of Materials Chemistry</i> , 2009, 19, 1968.	6.7	144
26	Therapeutic MSC exosomes are derived from lipid raft microdomains in the plasma membrane. <i>Journal of Extracellular Vesicles</i> , 2013, 2, .	12.2	140
27	Derivation and characterization of human fetal MSCs: An alternative cell source for large-scale production of cardioprotective microparticles. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1215-1224.	1.9	137
28	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. <i>Cytotherapy</i> , 2021, 23, 373-380.	0.7	125
29	Mesenchymal stem cell exosome ameliorates reperfusion injury through proteomic complementation. <i>Regenerative Medicine</i> , 2013, 8, 197-209.	1.7	111
30	Mesenchymal stem cell-derived extracellular vesicles reduce senescence and extend health span in mouse models of aging. <i>Aging Cell</i> , 2021, 20, e13337.	6.7	63
31	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> , 2020, 36, 2215-2228.e2.	2.7	60
32	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. <i>Cytotherapy</i> , 2018, 20, 1419-1426.	0.7	59
33	Topical Application of Mesenchymal Stem Cell Exosomes Alleviates the Imiquimod Induced Psoriasis-Like Inflammation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 720.	4.1	47
34	Magnetic nanoparticle-enhanced surface plasmon resonance biosensor for extracellular vesicle analysis. <i>Analyst</i> , 2017, 142, 3913-3921.	3.5	45
35	Systemic Mesenchymal Stem Cell-Derived Exosomes Reduce Myocardial Infarct Size: Characterization With MRI in a Porcine Model. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 601990.	2.4	37
36	Isolation and Characterization of Exosome from Human Embryonic Stem Cell-Derived C-Myc-Immortalized Mesenchymal Stem Cells. <i>Methods in Molecular Biology</i> , 2016, 1416, 477-494.	0.9	36

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37	Mesenchymal Stem Cell Exosomes: The Future MSC-Based Therapy?. , 2013, , 39-61.		31
38	Derivation and Characterization of Human ESC-Derived Mesenchymal Stem Cells. Methods in Molecular Biology, 2011, 698, 141-150.	0.9	30
39	Assessment of Tumorigenic Potential in Mesenchymal-Stem/Stromal-Cell-Derived Small Extracellular Vesicles (MSC-sEV). Pharmaceuticals, 2021, 14, 345.	3.8	27
40	Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model. American Journal of Sports Medicine, 2022, 50, 788-800.	4.2	24
41	Mechanism for the attenuation of neutrophil and complement hyperactivity by MSC exosomes. Cytotherapy, 2022, 24, 711-719.	0.7	24
42	Membrane lipids define small extracellular vesicle subtypes secreted by mesenchymal stromal cells. Journal of Lipid Research, 2019, 60, 318-322.	4.2	22
43	Practical considerations in transforming MSC therapy for neurological diseases from cell to EV. Experimental Neurology, 2022, 349, 113953.	4.1	9
44	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats. Journal of Bone and Joint Surgery - Series A, 2022, 104, 1098-1106.	3.0	4