

Shiaw-Min Hwang

List of Publications by Year in descending order

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64
papers

4,305
citations

87723

38
h-index

114278

63
g-index

65
all docs

65
docs citations

65
times ranked

5859
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of human multipotent mesenchymal stem cells from second-trimester amniotic fluid using a novel two-stage culture protocol. <i>Human Reproduction</i> , 2004, 19, 1450-1456.	0.4	566
2	Clonal Amniotic Fluid-Derived Stem Cells Express Characteristics of Both Mesenchymal and Neural Stem Cells. <i>Biology of Reproduction</i> , 2006, 74, 545-551.	1.2	232
3	Functional Network Analysis of the Transcriptomes of Mesenchymal Stem Cells Derived from Amniotic Fluid, Amniotic Membrane, Cord Blood, and Bone Marrow. <i>Stem Cells</i> , 2007, 25, 2511-2523.	1.4	209
4	Cytokine interactions in mesenchymal stem cells from cord blood. <i>Cytokine</i> , 2005, 32, 270-279.	1.4	201
5	Simultaneous induction of autophagy and toll-like receptor signaling pathways by graphene oxide. <i>Biomaterials</i> , 2012, 33, 6559-6569.	5.7	199
6	Suppression of hepatocellular carcinoma by baculovirus-mediated expression of long non-coding RNA PTENP1 and MicroRNA regulation. <i>Biomaterials</i> , 2015, 44, 71-81.	5.7	193
7	Disparate Mesenchyme-Lineage Tendencies in Mesenchymal Stem Cells from Human Bone Marrow and Umbilical Cord Blood. <i>Stem Cells</i> , 2006, 24, 679-685.	1.4	177
8	Bioengineered cardiac patch constructed from multilayered mesenchymal stem cells for myocardial repair. <i>Biomaterials</i> , 2008, 29, 3547-3556.	5.7	134
9	Osteogenic differentiation of adipose-derived stem cells and calvarial defect repair using baculovirus-mediated co-expression of BMP-2 and miR-148b. <i>Biomaterials</i> , 2014, 35, 4901-4910.	5.7	118
10	Osteopontin-Induced Modifications of Cellular Functions. <i>Annals of the New York Academy of Sciences</i> , 1995, 760, 127-142.	1.8	106
11	Direct intramyocardial injection of mesenchymal stem cell sheet fragments improves cardiac functions after infarction. <i>Cardiovascular Research</i> , 2008, 77, 515-524.	1.8	91
12	Enhancement of cell retention and functional benefits in myocardial infarction using human amniotic-fluid stem-cell bodies enriched with endogenous ECM. <i>Biomaterials</i> , 2011, 32, 5558-5567.	5.7	81
13	Spherically Symmetric Mesenchymal Stromal Cell Bodies Inherent with Endogenous Extracellular Matrices for Cellular Cardiomyoplasty. <i>Stem Cells</i> , 2009, 27, 724-732.	1.4	79
14	Cardiac repair with injectable cell sheet fragments of human amniotic fluid stem cells in an immune-suppressed rat model. <i>Biomaterials</i> , 2010, 31, 6444-6453.	5.7	78
15	A systematic strategy to optimize ex vivo expansion medium for human hematopoietic stem cells derived from umbilical cord blood mononuclear cells. <i>Experimental Hematology</i> , 2004, 32, 720-727.	0.2	75
16	Modeling neurogenesis impairment in down syndrome with induced pluripotent stem cells from Trisomy 21 amniotic fluid cells. <i>Experimental Cell Research</i> , 2013, 319, 498-505.	1.2	71
17	Development of a Hybrid Baculoviral Vector for Sustained Transgene Expression. <i>Molecular Therapy</i> , 2009, 17, 658-666.	3.7	69
18	Combination of G-CSF Administration and Human Amniotic Fluid Mesenchymal Stem Cell Transplantation Promotes Peripheral Nerve Regeneration. <i>Neurochemical Research</i> , 2009, 34, 518-527.	1.6	67

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19	Characterization of two populations of mesenchymal progenitor cells in umbilical cord blood. <i>Cell Biology International</i> , 2006, 30, 495-499.	1.4	66
20	Age and development-related changes in osteopontin and nitric oxide synthase mRNA levels in human kidney proximal tubule epithelial cells: Contrasting responses to hypoxia and reoxygenation. <i>Journal of Cellular Physiology</i> , 1994, 160, 61-68.	2.0	63
21	Trafficking of Multipotent Mesenchymal Stromal Cells from Maternal Circulation Through the Placenta Involves Vascular Endothelial Growth Factor Receptor-1 and Integrins. <i>Stem Cells</i> , 2008, 26, 550-561.	1.4	61
22	Baculovirus Transduction of Mesenchymal Stem Cells Triggers the Toll-Like Receptor 3 Pathway. <i>Journal of Virology</i> , 2009, 83, 10548-10556.	1.5	60
23	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. <i>Biomaterials</i> , 2012, 33, 4069-4077.	5.7	60
24	Cellular Cardiomyoplasty with Human Amniotic Fluid Stem Cells: <i>In Vitro</i> and <i>In Vivo</i> Studies. <i>Tissue Engineering - Part A</i> , 2010, 16, 1925-1936.	1.6	59
25	Isolation of Mesenchymal Stem Cells with Neurogenic Potential from the Mesoderm of the Amniotic Membrane. <i>Cells Tissues Organs</i> , 2010, 192, 93-105.	1.3	58
26	Human Amniotic Fluid Mesenchymal Stem Cells in Combination with Hyperbaric Oxygen Augment Peripheral Nerve Regeneration. <i>Neurochemical Research</i> , 2009, 34, 1304-1316.	1.6	57
27	Baculovirus Transduction of Mesenchymal Stem Cells: <i>In Vitro</i> Responses and <i>In Vivo</i> Immune Responses After Cell Transplantation. <i>Molecular Therapy</i> , 2009, 17, 889-896.	3.7	56
28	Porous tissue grafts sandwiched with multilayered mesenchymal stromal cell sheets induce tissue regeneration for cardiac repair. <i>Cardiovascular Research</i> , 2008, 80, 88-95.	1.8	54
29	Porous acellular bovine pericardia seeded with mesenchymal stem cells as a patch to repair a myocardial defect in a syngeneic rat model. <i>Biomaterials</i> , 2006, 27, 5409-5419.	5.7	52
30	Construction and characterization of fragmented mesenchymal-stem-cell sheets for intramuscular injection. <i>Biomaterials</i> , 2007, 28, 4643-4651.	5.7	49
31	Optimization of serum free medium for cord blood mesenchymal stem cells. <i>Biochemical Engineering Journal</i> , 2007, 33, 1-9.	1.8	46
32	Enhanced and prolonged baculovirus-mediated expression by incorporating recombinase system and in cis elements: a comparative study. <i>Nucleic Acids Research</i> , 2013, 41, e139-e139.	6.5	46
33	Generation of Natural Killer Cells from Serum-Free, Expanded Human Umbilical Cord Blood CD34 ⁺ Cells. <i>Stem Cells and Development</i> , 2007, 16, 1043-1052.	1.1	43
34	Xenotransplantation of Human Mesenchymal Stem Cells into Immunocompetent Rats for Calvarial Bone Repair. <i>Tissue Engineering - Part A</i> , 2010, 16, 479-488.	1.6	43
35	Factorial designs combined with the steepest ascent method to optimize serum-free media for CHO cells. <i>Enzyme and Microbial Technology</i> , 2001, 28, 314-321.	1.6	41
36	The Comparison of Interleukin 6-Associated Immunosuppressive Effects of Human ESCs, Fetal-Type MSCs, and Adult-Type MSCs. <i>Transplantation</i> , 2012, 94, 132-138.	0.5	41

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37	Factorial designs combined with the steepest ascent method to optimize serum-free media for ex vivo expansion of human hematopoietic progenitor cells. <i>Enzyme and Microbial Technology</i> , 2003, 33, 343-352.	1.6	40
38	Escalated regeneration in sciatic nerve crush injury by the combined therapy of human amniotic fluid mesenchymal stem cells and fermented soybean extracts, <i>Natto</i> . <i>Journal of Biomedical Science</i> , 2009, 16, 75.	2.6	40
39	The Role of Mesenchymal Stem Cells in Hematopoietic Stem Cell Transplantation: From Bench to Bedside. <i>Cell Transplantation</i> , 2013, 22, 723-729.	1.2	40
40	A translational approach in using cell sheet fragments of autologous bone marrow-derived mesenchymal stem cells for cellular cardiomyoplasty in a porcine model. <i>Biomaterials</i> , 2013, 34, 4582-4591.	5.7	39
41	Establishment of immortalized mesenchymal stromal cells with red fluorescence protein expression for in vivo transplantation and tracing in the rat model with traumatic brain injury. <i>Cytotherapy</i> , 2010, 12, 455-465.	0.3	35
42	Hypoxia-induced therapeutic neovascularization in a mouse model of an ischemic limb using cell aggregates composed of HUVECs and cbMSCs. <i>Biomaterials</i> , 2013, 34, 9441-9450.	5.7	34
43	Enhancement of cell adhesion, retention, and survival of HUVEC/cbMSC aggregates that are transplanted in ischemic tissues by concurrent delivery of an antioxidant for therapeutic angiogenesis. <i>Biomaterials</i> , 2016, 74, 53-63.	5.7	34
44	Core-shell cell bodies composed of human cbMSCs and HUVECs for functional vasculogenesis. <i>Biomaterials</i> , 2011, 32, 8446-8455.	5.7	32
45	Selection of alkaline phosphatase-positive induced pluripotent stem cells from human amniotic fluid-derived cells by feeder-free system. <i>Experimental Cell Research</i> , 2011, 317, 1895-1903.	1.2	31
46	Vascularization and restoration of heart function in rat myocardial infarction using transplantation of human cbMSC/HUVEC core-shell bodies. <i>Biomaterials</i> , 2012, 33, 2127-2136.	5.7	30
47	Baculovirus-Mediated miRNA Regulation to Suppress Hepatocellular Carcinoma Tumorigenicity and Metastasis. <i>Molecular Therapy</i> , 2015, 23, 79-88.	3.7	30
48	A strategy for fabrication of a three-dimensional tissue construct containing uniformly distributed embryoid body-derived cells as a cardiac patch. <i>Biomaterials</i> , 2010, 31, 6218-6227.	5.7	25
49	Preferential therapy for osteoarthritis by cord blood MSCs through regulation of chondrogenic cytokines. <i>Biomaterials</i> , 2013, 34, 4739-4748.	5.7	25
50	The culture and differentiation of amniotic stem cells using a microfluidic system. <i>Biomedical Microdevices</i> , 2009, 11, 869-881.	1.4	23
51	Multimodality noninvasive imaging for assessing therapeutic effects of exogenously transplanted cell aggregates capable of angiogenesis on acute myocardial infarction. <i>Biomaterials</i> , 2015, 73, 12-22.	5.7	21
52	Xenografted human amniotic fluid-derived stem cell as a cell source in therapeutic angiogenesis. <i>International Journal of Cardiology</i> , 2013, 168, 66-75.	0.8	18
53	A microfluidic device for chemical and mechanical stimulation of mesenchymal stem cells. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 545-556.	1.0	15
54	Isolation of Human Neural Stem Cells from the Amniotic Fluid with Diagnosed Neural Tube Defects. <i>Stem Cells and Development</i> , 2015, 24, 1740-1750.	1.1	14

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55	Transcriptome Analysis of Common Gene Expression in Human Mesenchymal Stem Cells Derived from Four Different Origins. <i>Methods in Molecular Biology</i> , 2011, 698, 405-417.	0.4	13
56	Amniotic Fluid Stem Cells with Low \hat{I}^3 -Interferon Response Showed Behavioral Improvement in Parkinsonism Rat Model. <i>PLoS ONE</i> , 2013, 8, e76118.	1.1	11
57	SOX9 as a Predictor for Neurogenesis Potentiality of Amniotic Fluid Stem Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1138-1147.	1.6	9
58	The biochemical and electrophysiological profiles of amniotic fluid-derived stem cells following Wnt signaling modulation cardiac differentiation. <i>Cell Death Discovery</i> , 2019, 5, 59.	2.0	9
59	Preclinical Safety Evaluation of ASCs Engineered by FLPo/Frt-Based Hybrid Baculovirus: <i>In Vitro</i> and Large Animal Studies. <i>Tissue Engineering - Part A</i> , 2015, 21, 1471-1482.	1.6	8
60	Ex Vivo Expansion of Hematopoietic Stem Cells from Human Cord Blood in Serum-Free Conditions. <i>Methods in Molecular Biology</i> , 2007, 407, 165-175.	0.4	6
61	DNA methylation patterns of imprinting centers for H19, SNRPN, and KCNQ1OT1 in single-cell clones of human amniotic fluid mesenchymal stem cell. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2012, 51, 342-349.	0.5	3
62	Immortalization of Human Mesenchymal Stromal Cells with Telomerase and Red Fluorescence Protein Expression. <i>Methods in Molecular Biology</i> , 2012, 879, 471-478.	0.4	3
63	Clulture and diferentiation of amniotic stem cells in a microfluidic system. , 2009, , .		1
64	In reply to Michaud et al.: Systematic strategy approach in medium design. <i>Experimental Hematology</i> , 2005, 33, 1273-1274.	0.2	0