Shiaw-Min Hwang

List of Publications by Year
in descending order

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	The biochemical and electrophysiological profiles of amniotic fluid-derived stem cells following Wnt signaling modulation cardiac differentiation. Cell Death Discovery, 2019, 5, 59.	2.0	9
2	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. Biomaterials, 2016, 74, 53-63.	5.7	34
3	Suppression of hepatocellular carcinoma by baculovirus-mediated expression of long non-coding RNA PTENP1 and MicroRNA regulation. Biomaterials, 2015, 44, 71-81.	5.7	193
4	Isolation of Human Neural Stem Cells from the Amniotic Fluid with Diagnosed Neural Tube Defects. Stem Cells and Development, 2015, 24, 1740-1750.	1.1	14
5	Preclinical Safety Evaluation of ASCs Engineered by FLPo/Frt-Based Hybrid Baculovirus:In Vitroand Large Animal Studies. Tissue Engineering - Part A, 2015, 21, 1471-1482.	1.6	8
6	Multimodality noninvasive imaging for assessing therapeutic effects of exogenously transplanted cell aggregates capable of angiogenesis on acute myocardial infarction. Biomaterials, 2015, 73, 12-22.	5.7	21
7	Baculovirus-Mediated miRNA Regulation to Suppress Hepatocellular Carcinoma Tumorigenicity and Metastasis. Molecular Therapy, 2015, 23, 79-88.	3.7	30
8	Osteogenic differentiation of adipose-derived stem cells and calvarial defect repair using baculovirus-mediated co-expression of BMP-2 and miR-148b. Biomaterials, 2014, 35, 4901-4910.	5.7	118
9	SOX9 as a Predictor for Neurogenesis Potentiality of Amniotic Fluid Stem Cells. Stem Cells Translational Medicine, 2014, 3, 1138-1147.	1.6	9
10	Hypoxia-induced therapeutic neovascularization in a mouse model of an ischemic limb using cell aggregates composed of HUVECs and cbMSCs. Biomaterials, 2013, 34, 9441-9450.	5.7	34
11	Modeling neurogenesis impairment in down syndrome with induced pluripotent stem cells from Trisomy 21 amniotic fluid cells. Experimental Cell Research, 2013, 319, 498-505.	1.2	71
12	Preferential therapy for osteoarthritis by cord blood MSCs through regulation of chondrogenic cytokines. Biomaterials, 2013, 34, 4739-4748.	5.7	25
13	Xenografted human amniotic fluid-derived stem cell as a cell source in therapeutic angiogenesis. International Journal of Cardiology, 2013, 168, 66-75.	0.8	18
14	A translational approach in using cell sheet fragments of autologous bone marrow-derived mesenchymal stem cells for cellular cardiomyoplasty in a porcine model. Biomaterials, 2013, 34, 4582-4591.	5.7	39
15	Enhanced and prolonged baculovirus-mediated expression by incorporating recombinase system and in cis elements: a comparative study. Nucleic Acids Research, 2013, 41, e139-e139.	6.5	46
16	The Role of Mesenchymal Stem Cells in Hematopoietic Stem Cell Transplantation: From Bench to Bedsides. Cell Transplantation, 2013, 22, 723-729.	1.2	40
17	Amniotic Fluid Stem Cells with Low Î³-Interferon Response Showed Behavioral Improvement in Parkinsonism Rat Model. PLoS ONE, 2013, 8, e76118.	1.1	11
18	The Comparison of Interleukin 6â€“Associated Immunosuppressive Effects of Human ESCs, Fetal-Type MSCs, and Adult-Type MSCs. Transplantation, 2012, 94, 132-138.	0.5	41

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19	DNA methylation patterns of imprinting centers for H19, SNRPN, and KCNQ1OT1 in single-cell clones of human amniotic fluid mesenchymal stem cell. Taiwanese Journal of Obstetrics and Gynecology, 2012, 51, 342-349.	0.5	3
20	Immortalization of Human Mesenchymal Stromal Cells with Telomerase and Red Fluorescence Protein Expression. Methods in Molecular Biology, 2012, 879, 471-478.	0.4	3
21	Vascularization and restoration of heart function in rat myocardial infarction using transplantation of human cbMSC/HUVEC core-shell bodies. Biomaterials, 2012, 33, 2127-2136.	5.7	30
22	Injectable PLGA porous beads cellularized by hAFSCs for cellular cardiomyoplasty. Biomaterials, 2012, 33, 4069-4077.	5.7	60
23	Simultaneous induction of autophagy and toll-like receptor signaling pathways by graphene oxide. Biomaterials, 2012, 33, 6559-6569.	5.7	199
24	Selection of alkaline phosphatase-positive induced pluripotent stem cells from human amniotic fluid-derived cells by feeder-free system. Experimental Cell Research, 2011, 317, 1895-1903.	1.2	31
25	Coreâ€“shell cell bodies composed of human cbMSCs and HUVECs for functional vasculogenesis. Biomaterials, 2011, 32, 8446-8455.	5.7	32
26	A microfluidic device for chemical and mechanical stimulation of mesenchymal stem cells. Microfluidics and Nanofluidics, 2011, 11, 545-556.	1.0	15
27	Enhancement of cell retention and functional benefits in myocardial infarction using human amniotic-fluid stem-cell bodies enriched with endogenous ECM. Biomaterials, 2011, 32, 5558-5567.	5.7	81
28	Transcriptome Analysis of Common Gene Expression in Human Mesenchymal Stem Cells Derived from Four Different Origins. Methods in Molecular Biology, 2011, 698, 405-417.	0.4	13
29	A strategy for fabrication of a three-dimensional tissue construct containing uniformly distributed embryoid body-derived cells as a cardiac patch. Biomaterials, 2010, 31, 6218-6227.	5.7	25
30	Cardiac repair with injectable cell sheet fragments of human amniotic fluid stem cells in an immune-suppressed rat model. Biomaterials, 2010, 31, 6444-6453.	5.7	78
31	Cellular Cardiomyoplasty with Human Amniotic Fluid Stem Cells: In Vitro and In Vivo Studies. Tissue Engineering - Part A, 2010, 16, 1925-1936.	1.6	59
32	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. Cytotherapy, 2010, 12, 455-465.	0.3	35
33	Isolation of Mesenchymal Stem Cells with Neurogenic Potential from the Mesoderm of the Amniotic Membrane. Cells Tissues Organs, 2010, 192, 93-105.	1.3	58
34	Xenotransplantation of Human Mesenchymal Stem Cells into Immunocompetent Rats for Calvarial Bone Repair. Tissue Engineering - Part A, 2010, 16, 479-488.	1.6	43
35	Clulture and diferentiation of amniotic stem cells in a microfluidic system. , 2009, , .		1
36	Baculovirus Transduction of Mesenchymal Stem Cells Triggers the Toll-Like Receptor 3 Pathway. Journal of Virology, 2009, 83, 10548-10556.	1.5	60

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37	Combination of G-CSF Administration and Human Amniotic Fluid Mesenchymal Stem Cell Transplantation Promotes Peripheral Nerve Regeneration. Neurochemical Research, 2009, 34, 518-527.	1.6	67
38	Human Amniotic Fluid Mesenchymal Stem Cells in Combination with Hyperbaric Oxygen Augment Peripheral Nerve Regeneration. Neurochemical Research, 2009, 34, 1304-1316.	1.6	57
39	The culture and differentiation of amniotic stem cells using a microfluidic system. Biomedical Microdevices, 2009, 11, 869-881.	1.4	23
40	Escalated regeneration in sciatic nerve crush injury by the combined therapy of human amniotic fluid mesenchymal stem cells and fermented soybean extracts, Natto. Journal of Biomedical Science, 2009, 16, 75.	2.6	40
41	Spherically Symmetric Mesenchymal Stromal Cell Bodies Inherent with Endogenous Extracellular Matrices for Cellular Cardiomyoplasty. Stem Cells, 2009, 27, 724-732.	1.4	79
42	Baculovirus Transduction of Mesenchymal Stem Cells: In Vitro Responses and In Vivo Immune Responses After Cell Transplantation. Molecular Therapy, 2009, 17, 889-896.	3.7	56
43	Development of a Hybrid Baculoviral Vector for Sustained Transgene Expression. Molecular Therapy, 2009, 17, 658-666.	3.7	69
44	Bioengineered cardiac patch constructed from multilayered mesenchymal stem cells for myocardial repair. Biomaterials, 2008, 29, 3547-3556.	5.7	134
45	Trafficking of Multipotent Mesenchymal Stromal Cells from Maternal Circulation Through the Placenta Involves Vascular Endothelial Growth Factor Receptor-1 and Integrins. Stem Cells, 2008, 26, 550-561.	1.4	61
46	Direct intramyocardial injection of mesenchymal stem cell sheet fragments improves cardiac functions after infarction. Cardiovascular Research, 2008, 77, 515-524.	1.8	91
47	Porous tissue grafts sandwiched with multilayered mesenchymal stromal cell sheets induce tissue regeneration for cardiac repair. Cardiovascular Research, 2008, 80, 88-95.	1.8	54
48	Generation of Natural Killer Cells from Serum-Free, Expanded Human Umbilical Cord Blood CD34⁺Cells. Stem Cells and Development, 2007, 16, 1043-1052.	1.1	43
49	Optimization of serum free medium for cord blood mesenchymal stem cells. Biochemical Engineering Journal, 2007, 33, 1-9.	1.8	46
50	Construction and characterization of fragmented mesenchymal-stem-cell sheets for intramuscular injection. Biomaterials, 2007, 28, 4643-4651.	5.7	49
51	Functional Network Analysis of the Transcriptomes of Mesenchymal Stem Cells Derived from Amniotic Fluid, Amniotic Membrane, Cord Blood, and Bone Marrow. Stem Cells, 2007, 25, 2511-2523.	1.4	209
52	Ex Vivo Expansion of Hematopoietic Stem Cells from Human Cord Blood in Serum-Free Conditions. Methods in Molecular Biology, 2007, 407, 165-175.	0.4	6
53	Porous acellular bovine pericardia seeded with mesenchymal stem cells as a patch to repair a myocardial defect in a syngeneic rat model. Biomaterials, 2006, 27, 5409-5419.	5.7	52
54	Characterization of two populations of mesenchymal progenitor cells in umbilical cord blood. Cell Biology International, 2006, 30, 495-499.	1.4	66

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55	Disparate Mesenchyme-Lineage Tendencies in Mesenchymal Stem Cells from Human Bone Marrow and Umbilical Cord Blood. Stem Cells, 2006, 24, 679-685.	1.4	177
56	Clonal Amniotic Fluid-Derived Stem Cells Express Characteristics of Both Mesenchymal and Neural Stem Cells1. Biology of Reproduction, 2006, 74, 545-551.	1.2	232
57	In reply to Michaud et al.: Systematic strategy approach in medium design. Experimental Hematology, 2005, 33, 1273-1274.	0.2	0
58	Cytokine interactions in mesenchymal stem cells from cord blood. Cytokine, 2005, 32, 270-279.	1.4	201
59	A systematic strategy to optimize ex vivo expansion medium for human hematopoietic stem cells derived from umbilical cord blood mononuclear cells. Experimental Hematology, 2004, 32, 720-727.	0.2	75
60	Isolation of human multipotent mesenchymal stem cells from second-trimester amniotic fluid using a novel two-stage culture protocol. Human Reproduction, 2004, 19, 1450-1456.	0.4	566
61	Factorial designs combined with the steepest ascent method to optimize serum-free media for ex vivo expansion of human hematopoietic progenitor cells. Enzyme and Microbial Technology, 2003, 33, 343-352.	1.6	40
62	Factorial designs combined with the steepest ascent method to optimize serum-free media for CHO cells. Enzyme and Microbial Technology, 2001, 28, 314-321.	1.6	41
63	Osteopontin-Induced Modifications of Cellular Functions. Annals of the New York Academy of Sciences, 1995, 760, 127-142.	1.8	106
64	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. Journal of Cellular Physiology, 1994, 160, 61-68.	2.0	63