

Abbas Piryaei

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90
papers

1,346
citations

21
h-index

31
g-index

99
ext. papers

1,675
ext. citations

3.5
avg, IF

4.61
L-index

#	Paper	IF	Citations
90	Differentiation of bone marrow-derived mesenchymal stem cells into hepatocyte-like cells on nanofibers and their transplantation into a carbon tetrachloride-induced liver fibrosis model. <i>Stem Cell Reviews and Reports</i> , 2011 , 7, 103-18	6.4	103
89	Mesenchymal stem cell infusion therapy in a carbon tetrachloride-induced liver fibrosis model affects matrix metalloproteinase expression. <i>Cell Biology International</i> , 2010 , 34, 601-5	4.5	84
88	Three-dimensional liver-derived extracellular matrix hydrogel promotes liver organoids function. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 4320-4333	4.7	60
87	Effect of Secreted Molecules of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells on Acute Hepatic Failure Model. <i>Stem Cells and Development</i> , 2016 , 25, 1898-1908	4.4	50
86	Molecular and ultrastructural characterization of endothelial cells differentiated from human bone marrow mesenchymal stem cells. <i>Cell Biology International</i> , 2008 , 32, 1183-92	4.5	41
85	The effect of vitrification on ultrastructure of human in vitro matured germinal vesicle oocytes. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2013 , 167, 69-75	2.4	40
84	A fresh look at the male-specific region of the human Y chromosome. <i>Journal of Proteome Research</i> , 2013 , 12, 6-22	5.6	39
83	Introducing a rat model of prenatal androgen-induced polycystic ovary syndrome in adulthood. <i>Experimental Physiology</i> , 2014 , 99, 792-801	2.4	37
82	Proliferation of small number of human spermatogonial stem cells obtained from azoospermic patients. <i>Journal of Assisted Reproduction and Genetics</i> , 2012 , 29, 957-67	3.4	37
81	Efficient and cost-effective generation of hepatocyte-like cells through microparticle-mediated delivery of growth factors in a 3D culture of human pluripotent stem cells. <i>Biomaterials</i> , 2018 , 159, 174-188	15.6	34
80	Tissue Engineering in Liver Regenerative Medicine: Insights into Novel Translational Technologies. <i>Cells</i> , 2020 , 9,	7.9	31
79	Effect of L-carnitine supplementation on maturation and early embryo development of immature mouse oocytes selected by brilliant cresyle blue staining. <i>Journal of Assisted Reproduction and Genetics</i> , 2015 , 32, 635-43	3.4	30
78	Bioceramic-collagen scaffolds loaded with human adipose-tissue derived stem cells for bone tissue engineering. <i>Molecular Biology Reports</i> , 2014 , 41, 741-9	2.8	28
77	Isoform-Level Gene Expression Profiles of Human Y Chromosome Azoospermia Factor Genes and Their X Chromosome Paralogs in the Testicular Tissue of Non-Obstructive Azoospermia Patients. <i>Journal of Proteome Research</i> , 2015 , 14, 3595-605	5.6	27
76	Ultrastructural comparison of developing mouse embryonic stem cell- and in vivo-derived cardiomyocytes. <i>Cell Biology International</i> , 2006 , 30, 800-7	4.5	27
75	The Effect of Combined Pulsed Wave Low-Level Laser Therapy and Human Bone Marrow Mesenchymal Stem Cell-Conditioned Medium on Open Skin Wound Healing in Diabetic Rats. <i>Photomedicine and Laser Surgery</i> , 2016 , 34, 345-54		25
74	The time of prenatal androgen exposure affects development of polycystic ovary syndrome-like phenotype in adulthood in female rats. <i>International Journal of Endocrinology and Metabolism</i> , 2014 , 12, e16502	1.8	23

73	Bone marrow or adipose tissue mesenchymal stem cells: Comparison of the therapeutic potentials in mice model of acute liver failure. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 5834-5842	4.7	22
72	Human mesenchymal stem cells-conditioned medium improves diabetic wound healing mainly through modulating fibroblast behaviors. <i>Archives of Dermatological Research</i> , 2020 , 312, 325-336	3.3	22
71	Intracytoplasmic oxidative stress reverses epigenetic modifications in polycystic ovary syndrome. <i>Reproduction, Fertility and Development</i> , 2017 , 29, 2313-2323	1.8	21
70	Galactosylated collagen matrix enhanced in vitro maturation of human embryonic stem cell-derived hepatocyte-like cells. <i>Biotechnology Letters</i> , 2014 , 36, 1095-106	3	21
69	Effect of low-level laser therapy on skin fibroblasts of streptozotocin-diabetic rats. <i>Photomedicine and Laser Surgery</i> , 2007 , 25, 519-25		21
68	Human Bone Marrow Mesenchymal Stem Cell Conditioned Medium Promotes Wound Healing in Deep Second-Degree Burns in Male Rats. <i>Cells Tissues Organs</i> , 2018 , 206, 317-329	2.1	20
67	The effect of combined pulsed wave low-level laser therapy and mesenchymal stem cell-conditioned medium on the healing of an infected wound with methicillin-resistant <i>Staphylococcal aureus</i> in diabetic rats. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 5788-5797	4.7	19
66	Effect of low-level laser therapy and oxytocin on osteoporotic bone marrow-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 983-997	4.7	19
65	Potential applications of sheep oocytes as affected by vitrification and in vitro aging. <i>Theriogenology</i> , 2012 , 77, 1741-53	2.8	19
64	Combined effects of rat Schwann cells and 17 β -Estradiol in a spinal cord injury model. <i>Metabolic Brain Disease</i> , 2018 , 33, 1229-1242	3.9	18
63	Effects of Photobiomodulation on Degranulation and Number of Mast Cells and Wound Strength in Skin Wound Healing of Streptozotocin-Induced Diabetic Rats. <i>Photomedicine and Laser Surgery</i> , 2018 , 36, 415-423		18
62	Ultrastructural maturation of human bone marrow mesenchymal stem cells-derived cardiomyocytes under alternative induction of 5-azacytidine. <i>Cell Biology International</i> , 2015 , 39, 519-30	4.5	17
61	Transplantation of schwann cells differentiated from adipose stem cells improves functional recovery in rat spinal cord injury. <i>Archives of Iranian Medicine</i> , 2013 , 16, 533-41	2.4	17
60	Organoid technology in female reproductive biomedicine. <i>Reproductive Biology and Endocrinology</i> , 2020 , 18, 64	5	16
59	Combined effects of low-level laser therapy and human bone marrow mesenchymal stem cell conditioned medium on viability of human dermal fibroblasts cultured in a high-glucose medium. <i>Lasers in Medical Science</i> , 2016 , 31, 749-57	3.1	15
58	Effect of long-term nitrite administration on browning of white adipose tissue in type 2 diabetic rats: A stereological study. <i>Life Sciences</i> , 2018 , 207, 219-226	6.8	14
57	Repeated versus single transplantation of mesenchymal stem cells in carbon tetrachloride-induced liver injury in mice. <i>Cell Biology International</i> , 2013 , 37, 340-7	4.5	14
56	Prenatal testosterone exposure worsen the reproductive performance of male rat at adulthood. <i>PLoS ONE</i> , 2013 , 8, e71705	3.7	14

55	Mesenchymal stem cells as an alternative for Schwann cells in rat spinal cord injury. <i>Iranian Biomedical Journal</i> , 2013 , 17, 113-22	2	14
54	Cardiac extracellular matrix hydrogel together with or without inducer cocktail improves human adipose tissue-derived stem cells differentiation into cardiomyocyte-like cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 502, 215-225	3.4	14
53	Targeting axonal degeneration and demyelination using combination administration of 17 β -estradiol and Schwann cells in the rat model of spinal cord injury. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 10195-10203	4.7	13
52	Low-level laser therapy with helium-neon laser improved viability of osteoporotic bone marrow-derived mesenchymal stem cells from ovariectomy-induced osteoporotic rats. <i>Journal of Biomedical Optics</i> , 2016 , 21, 98002	3.5	13
51	The effect of 30-day pretreatment with pentoxifylline on the survival of a random skin flap in the rat: an ultrastructural and biomechanical evaluation. <i>Medical Science Monitor</i> , 2006 , 12, BR201-7	3.2	13
50	Photobiomodulation therapy improves the growth factor and cytokine secretory profile in human type 2 diabetic fibroblasts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 210, 111962	6.7	12
49	Insight into epigenetics of human endometriosis organoids: DNA methylation analysis of HOX genes and their cofactors. <i>Fertility and Sterility</i> , 2021 , 115, 125-137	4.8	11
48	Differentiation of spermatogonial stem cells by soft agar three-dimensional culture system. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019 , 47, 1772-1781	6.1	10
47	Thymoquinone reduces intracytoplasmic oxidative stress and improves epigenetic modification in polycystic ovary syndrome mice oocytes, during in-vitro maturation. <i>Molecular Reproduction and Development</i> , 2019 , 86, 1053-1066	2.6	9
46	Generation of Transplantable Three-Dimensional Hepatic-Patch to Improve the Functionality of Hepatic Cells In Vitro and In Vivo. <i>Stem Cells and Development</i> , 2020 , 29, 301-313	4.4	9
45	Hyperthermia versus busulfan: Finding the effective method in animal model of azoospermia induction. <i>Andrologia</i> , 2019 , 51, e13438	2.4	8
44	The effects of insulin-like growth factor-1 gene therapy and cell transplantation on rat acute wound model. <i>Iranian Red Crescent Medical Journal</i> , 2014 , 16, e16323	1.3	8
43	Engraftment of bioengineered three-dimensional scaffold from human amniotic membrane-derived extracellular matrix accelerates ischemic diabetic wound healing. <i>Archives of Dermatological Research</i> , 2021 , 313, 567-582	3.3	8
42	Evaluation of PAWP and PLC γ Expression in Infertile Men with Previous ICSI Fertilization Failure. <i>Urology Journal</i> , 2018 , 15, 116-121	0.9	8
41	Peripheral axotomy-induced changes of motor function and histological structure of spinal anterior horn. <i>European Journal of Translational Myology</i> , 2019 , 29, 7945	2.1	7
40	Effects of fetal hypothyroidism on uterine smooth muscle contraction and structure of offspring rats. <i>Experimental Physiology</i> , 2018 , 103, 683-692	2.4	7
39	Adipose Derived Stem Cells Conditioned Media in Combination with Bioceramic-Collagen Scaffolds Improved Calvarial Bone Healing in Hypothyroid Rats. <i>Iranian Red Crescent Medical Journal</i> , 2017 , 19,	1.3	7
38	Hemodynamic properties and arterial structure in male rat offspring with fetal hypothyroidism. <i>General Physiology and Biophysics</i> , 2016 , 35, 397-405	2.1	7

37	Photobiomodulation therapy compensate the impairments of diabetic bone marrow mesenchymal stem cells. <i>Lasers in Medical Science</i> , 2020 , 35, 547-556	3.1	7
36	Improvement of oocyte in vitro maturation from mice with polycystic ovary syndrome by human mesenchymal stromal cell-conditioned media. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 10365-10375	4.7	7
35	Phospholipase C zeta parameters in sperm from polymorphic teratozoospermic men. <i>Annals of Anatomy</i> , 2018 , 215, 63-70	2.9	6
34	Effects of pentoxifylline administration on histomorphological parameters of streptozotocin-induced diabetic rat testes. <i>Laboratory Animal Research</i> , 2015 , 31, 111-6	1.9	6
33	Focal Injection of Ethidium Bromide as a Simple Model to Study Cognitive Deficit and Its Improvement. <i>Basic and Clinical Neuroscience</i> , 2016 , 7, 63-72	1.4	6
32	Oligoasthenoteratozoospermic (OAT) men display altered phospholipase C (PLC) localization and a lower percentage of sperm cells expressing PLC and post-acrosomal sheath WW domain-binding protein (PAWP). <i>Bosnian Journal of Basic Medical Sciences</i> , 2018 , 18, 178-184	3.3	5
31	Effect of Artificial Oocyte Activation on Intra-Cytoplasmic Sperm Injection Outcomes in Patients with Lower Percentage of Sperm Containing Phospholipase C A Randomized Clinical Trial. <i>Journal of Reproduction and Infertility</i> , 2019 , 20, 3-9	1.5	5
30	Neural differentiation of choroid plexus epithelial cells: role of human traumatic cerebrospinal fluid. <i>Neural Regeneration Research</i> , 2017 , 12, 84-89	4.5	5
29	Improved healing of critical-size femoral defect in osteoporosis rat models using 3D elastin/polycaprolactone/nHA scaffold in combination with mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 27	4.5	5
28	Tissue-Specific Microparticles Improve Organoid Microenvironment for Efficient Maturation of Pluripotent Stem-Cell-Derived Hepatocytes. <i>Cells</i> , 2021 , 10,	7.9	5
27	COVID-19 disrupts spermatogenesis through the oxidative stress pathway following induction of apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2021 , 26, 415-430	5.4	5
26	Bone Marrow Mesenchymal Stem Cell Condition Medium Loaded on PCL Nanofibrous Scaffold Promoted Nerve Regeneration After Sciatic Nerve Transection in Male Rats. <i>Neurotoxicity Research</i> , 2021 , 39, 1470-1486	4.3	5
25	Functional dopaminergic neurons derived from human chorionic mesenchymal stem cells ameliorate striatal atrophy and improve behavioral deficits in Parkinsonian rat model. <i>Anatomical Record</i> , 2020 , 303, 2274-2289	2.1	5
24	Effect of low-frequency stimulation on kindling induced changes in rat dentate gyrus: an ultrastructural study. <i>Acta Neurologica Belgica</i> , 2014 , 114, 47-53	1.5	4
23	Conditioned Media Derived from Human Adipose Tissue Mesenchymal Stromal Cells Improves Primary Hepatocyte Maintenance. <i>Cell Journal</i> , 2018 , 20, 377-387	2.4	4
22	Generation of Scalable Hepatic Micro-Tissues as a Platform for Toxicological Studies. <i>Tissue Engineering and Regenerative Medicine</i> , 2020 , 17, 459-475	4.5	4
21	Transplantation of human dental pulp stem cells compensates for striatal atrophy and modulates neuro-inflammation in 3-nitropropionic acid rat model of Huntington's disease. <i>Neuroscience Research</i> , 2021 , 170, 133-144	2.9	4
20	Prenatal liver stromal cells: Favorable feeder cells for long-term culture of hepatic progenitor cells. <i>Journal of Cellular Biochemistry</i> , 2019 , 120, 16624-16633	4.7	3

19	Quercetin improves developmental competence of mouse oocytes by reducing oxidative stress during in vitro maturation. <i>Annals of Animal Science</i> , 2018 , 18, 87-98	2	3
18	Induced premature ovarian insufficiency by using D galactose and its effects on reproductive profiles in small laboratory animals: a systematic review. <i>Journal of Ovarian Research</i> , 2019 , 12, 96	5.5	3
17	Different approaches to establish infertile rooster. <i>Animal Reproduction Science</i> , 2017 , 186, 31-36	2.1	3
16	The ability of mouse nuclear transfer embryonic stem cells to differentiate into primordial germ cells. <i>Genetics and Molecular Biology</i> , 2015 , 38, 220-6	2	3
15	Rhenium Perrhenate (ReO) Induced Apoptosis and Reduced Cancerous Phenotype in Liver Cancer Cells.. <i>Cells</i> , 2022 , 11,	7.9	3
14	Nigral injection of 6-hydroxydopamine induces changes in spatial arrangement of striatal neuron and glial cells. <i>Frontiers in Bioscience - Scholar</i> , 2019 , 11, 1-8	2.4	3
13	Disturbed progesterone signalling in an advanced preclinical model of endometriosis. <i>Reproductive BioMedicine Online</i> , 2021 , 43, 139-147	4	3
12	Chronic scrotal hyperthermia induces azoospermia and severe damage to testicular tissue in mice. <i>Acta Histochemica</i> , 2021 , 123, 151712	2	3
11	Association between increased expression of endothelial isoform of nitric oxide synthase in the human fallopian tube and tubal ectopic pregnancy. <i>Iranian Journal of Reproductive Medicine</i> , 2014 , 12, 19-28		2
10	Improvement of in situ Follicular Activation and Early Development in Cryopreserved Human Ovarian Cortical Tissue by Co-Culturing with Mesenchymal Stem Cells. <i>Cells Tissues Organs</i> , 2019 , 208, 48-58	2.1	2
9	A simple method for generating small calcium-alginate beads by syringe. <i>Journal of Histotechnology</i> , 2014 , 37, 132-137	1.3	1
8	An effective method for establishing animal models of azoospermia and oligospermia. <i>Andrologia</i> , 2021 , 53, e14095	2.4	1
7	Biofabrication of size-controlled liver microtissues incorporated with ECM-derived microparticles to prolong hepatocyte function. <i>Bio-Design and Manufacturing</i> , 2021 , 4, 790-805	4.7	1
6	In vitro modeling of liver fibrosis in 3D microtissues using scalable micropatterning system.. <i>Archives of Toxicology</i> , 2022 , 1	5.8	1
5	Hepatic stellate cell activation by TGF β induces hedgehog signaling and endoplasmic reticulum stress simultaneously.. <i>Toxicology in Vitro</i> , 2022 , 80, 105315	3.6	0
4	Protective Effects of Fisetin in the Mice Induced by Long-Term Scrotal Hyperthermia. <i>Reproductive Sciences</i> , 2021 , 28, 3123-3136	3	0
3	Derivation of hormone-responsive human endometrial organoids and stromal cells from cryopreserved biopsies.. <i>Experimental Cell Research</i> , 2022 , 113205	4.2	0
2	Immunohistochemical Analysis of LGR5 and TROY Expression in Gastric Carcinogenesis Demonstrates an Inverse Trend. <i>Iranian Biomedical Journal</i> , 2019 , 23, 107-20	2	

- 1 Culture strategy as a modulator of target assessments: Functionality of suspension versus hanging drop-derived choriocarcinoma spheroids as in vitro model of embryo implantation. *Journal of Cellular Biochemistry*, **2021**, 122, 1192 4.7