Hossein Baharvand

List of Publications by Citations

370 papers	12,888 citations	52 h-index	102 g-index
404 ext. papers	16,337 ext. citations	5.1 avg, IF	6.48 L-index

#	Paper	IF	Citations
370	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. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
369	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. *Nature Biotechnology*, **2011**, 29, 1132-44	44.5	406
368	Differentiation of human embryonic stem cells into hepatocytes in 2D and 3D culture systems in vitro. *International Journal of Developmental Biology*, **2006**, 50, 645-52	1.9	317
367	Phase 1 trial of autologous bone marrow mesenchymal stem cell transplantation in patients with decompensated liver cirrhosis. *Archives of Iranian Medicine*, **2007**, 10, 459-66	2.4	195
366	Electrically conductive gold nanoparticle-chitosan thermosensitive hydrogels for cardiac tissue engineering. *Materials Science and Engineering C*, **2016**, 63, 131-41	8.3	177
365	Generation of liver disease-specific induced pluripotent stem cells along with efficient differentiation to functional hepatocyte-like cells. *Stem Cell Reviews and Reports*, **2010**, 6, 622-32	6.4	137
364	Phase 1 human trial of autologous bone marrow-hematopoietic stem cell transplantation in patients with decompensated cirrhosis. *World Journal of Gastroenterology*, **2007**, 13, 3359-63	5.6	132
363	Generation of new human embryonic stem cell lines with diploid and triploid karyotypes. *Development Growth and Differentiation*, **2006**, 48, 117-28	3	127
362	The effect of extracellular matrix on embryonic stem cell-derived cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2005**, 38, 495-503	5.8	119
361	Personalized Cancer Medicine: An Organoid Approach. *Trends in Biotechnology*, **2018**, 36, 358-371	15.1	116
360	Bioprocess development for mass production of size-controlled human pluripotent stem cell aggregates in stirred suspension bioreactor. *Tissue Engineering - Part C: Methods*, **2012**, 18, 831-51	2.9	109
359	Transplantation of primed or unprimed mouse embryonic stem cell-derived neural precursor cells improves cognitive function in Alzheimerian rats. *Differentiation*, **2009**, 78, 59-68	3.5	97
358	Engineered Hydrogels in Cancer Therapy and Diagnosis. *Trends in Biotechnology*, **2017**, 35, 1074-1087	15.1	91
357	Generation of functional hepatocyte-like cells from human pluripotent stem cells in a scalable suspension culture. *Stem Cells and Development*, **2013**, 22, 2693-705	4.4	88
356	A Universal and Robust Integrated Platform for the Scalable Production of Human Cardiomyocytes From Pluripotent Stem Cells. *Stem Cells Translational Medicine*, **2015**, 4, 1482-94	6.9	86
355	Human embryonic stem cell-derived neural precursor transplants in collagen scaffolds promote recovery in injured rat spinal cord. *Cytotherapy*, **2009**, 11, 618-30	4.8	85
354	Long-Term Follow-up of Intra-articular Injection of Autologous Mesenchymal Stem Cells in Patients with Knee, Ankle, or Hip Osteoarthritis. *Archives of Iranian Medicine*, **2015**, 18, 336-44	2.4	85

353	Mesenchymal stem cell infusion therapy in a carbon tetrachloride-induced liver fibrosis model affects matrix metalloproteinase expression. *Cell Biology International*, **2010**, 34, 601-5	4.5	84
352	A simple and efficient cryopreservation method for feeder-free dissociated human induced pluripotent stem cells and human embryonic stem cells. *Human Reproduction*, **2009**, 24, 2468-76	5.7	83
351	Proteomic signature of human embryonic stem cells. *Proteomics*, **2006**, 6, 3544-9	4.8	83
350	The behavior of cardiac progenitor cells on macroporous pericardium-derived scaffolds. *Biomaterials*, **2014**, 35, 970-82	15.6	82
349	Induced in vitro differentiation of neural-like cells from human exfoliated deciduous teeth-derived stem cells. *International Journal of Developmental Biology*, **2011**, 55, 189-95	1.9	82
348	Preparation of a porous conductive scaffold from aniline pentamer-modified polyurethane/PCL blend for cardiac tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3179-87	5.4	81
347	Differentiation and transplantation of human induced pluripotent stem cell-derived hepatocyte-like cells. *Stem Cell Reviews and Reports*, **2013**, 9, 493-504	6.4	79
346	PSVII-19 Characterization and Migration of Cultured Quail Primordial Germ Cells from Embryonic Blood and Gonad.. *Journal of Animal Science*, **2018**, 96, 354-354	0.7	78
345	Stem cells and injectable hydrogels: Synergistic therapeutics in myocardial repair. *Biotechnology Advances*, **2016**, 34, 362-379	17.8	76
344	Feeder- and serum-free establishment and expansion of human induced pluripotent stem cells. *International Journal of Developmental Biology*, **2010**, 54, 877-86	1.9	76
343	Presence of a ROCK inhibitor in extracellular matrix supports more undifferentiated growth of feeder-free human embryonic and induced pluripotent stem cells upon passaging. *Stem Cell Reviews and Reports*, **2010**, 6, 96-107	6.4	76
342	Clinical hepatocyte transplantation: practical limits and possible solutions. *European Surgical Research*, **2015**, 54, 162-77	1.1	74
341	Concise review: trends in stem cell proteomics. *Stem Cells*, **2007**, 25, 1888-903	5.8	74
340	Technological progress and challenges towards cGMP manufacturing of human pluripotent stem cells based therapeutic products for allogeneic and autologous cell therapies. *Biotechnology Advances*, **2013**, 31, 1600-23	17.8	73
339	The effect of pro-inflammatory cytokines on immunophenotype, differentiation capacity and immunomodulatory functions of human mesenchymal stem cells. *Cytokine*, **2016**, 85, 51-60	4	71
338	Interaction between mesenchymal stromal cell-derived extracellular vesicles and immune cells by distinct protein content. *Journal of Cellular Physiology*, **2019**, 234, 8249-8258	7	71
337	Induced pluripotent stem cells: a new era for hepatology. *Journal of Hepatology*, **2010**, 53, 738-51	13.4	69
336	Establishment and in vitro differentiation of a new embryonic stem cell line from human blastocyst. *Differentiation*, **2004**, 72, 224-9	3.5	67

335	Hydrogel-Mediated Sustained Systemic Delivery of Mesenchymal Stem Cell-Derived Extracellular Vesicles Improves Hepatic Regeneration in Chronic Liver Failure. *ACS Applied Materials & Interfaces*, **2019**, 11, 37421-37433	9.5	65
334	Culture condition difference for establishment of new embryonic stem cell lines from the C57BL/6 and BALB/c mouse strains. *In Vitro Cellular and Developmental Biology - Animal*, **2004**, 40, 76-81	2.6	64
333	Intra-articular implantation of autologous bone marrow-derived mesenchymal stromal cells to treat knee osteoarthritis: a randomized, triple-blind, placebo-controlled phase 1/2 clinical trial. *Cytotherapy*, **2018**, 20, 1238-1246	4.8	63
332	A robust super-tough biodegradable elastomer engineered by supramolecular ionic interactions. *Biomaterials*, **2016**, 84, 54-63	15.6	61
331	Self-correction of chromosomal abnormalities in human preimplantation embryos and embryonic stem cells. *Stem Cells and Development*, **2013**, 22, 2449-56	4.4	61
330	Mesenchymal stem cells derived from perinatal tissues for treatment of critically ill COVID-19-induced ARDS patients: a case series. *Stem Cell Research and Therapy*, **2021**, 12, 91	8.3	61
329	Three-dimensional liver-derived extracellular matrix hydrogel promotes liver organoids function. *Journal of Cellular Biochemistry*, **2018**, 119, 4320-4333	4.7	60
328	Human induced pluripotent stem cells differentiation into oligodendrocyte progenitors and transplantation in a rat model of optic chiasm demyelination. *PLoS ONE*, **2011**, 6, e27925	3.7	60
327	Extracellular vesicles derived from human embryonic stem cell-MSCs ameliorate cirrhosis in thioacetamide-induced chronic liver injury. *Journal of Cellular Physiology*, **2018**, 233, 9330-9344	7	59
326	Differentiation of human embryonic stem cells into functional hepatocyte-like cells in a serum-free adherent culture condition. *Differentiation*, **2008**, 76, 465-77	3.5	58
325	Transplantation of undifferentiated and induced human exfoliated deciduous teeth-derived stem cells promote functional recovery of rat spinal cord contusion injury model. *Stem Cells and Development*, **2012**, 21, 1794-802	4.4	57
324	A new efficient protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal disease induced pluripotent stem cells. *Stem Cells and Development*, **2012**, 21, 2262-72	4.4	57
323	Improvement of islet engrafts by enhanced angiogenesis and microparticle-mediated oxygenation. *Biomaterials*, **2016**, 89, 157-65	15.6	56
322	An efficient and easy-to-use cryopreservation protocol for human ES and iPS cells. *Nature Protocols*, **2010**, 5, 588-94	18.8	56
321	Generation of insulin-secreting cells from human embryonic stem cells. *Development Growth and Differentiation*, **2006**, 48, 323-32	3	56
320	Progress and promise towards safe induced pluripotent stem cells for therapy. *Stem Cell Reviews and Reports*, **2010**, 6, 297-306	6.4	55
319	In Situ Forming, Cytocompatible, and Self-Recoverable Tough Hydrogels Based on Dual Ionic and Click Cross-Linked Alginate. *Biomacromolecules*, **2018**, 19, 1646-1662	6.9	52
318	Long-term maintenance of undifferentiated human embryonic and induced pluripotent stem cells in suspension. *Stem Cells and Development*, **2011**, 20, 1911-23	4.4	52

317	Human cardiomyocyte generation from pluripotent stem cells: A state-of-art. *Life Sciences*, **2016**, 145, 98-113	6.8	51
316	Inhibition of TGF signaling promotes ground state pluripotency. *Stem Cell Reviews and Reports*, **2014**, 10, 16-30	6.4	51
315	Comprehensive gene expression analysis of human embryonic stem cells during differentiation into neural cells. *PLoS ONE*, **2011**, 6, e22856	3.7	51
314	Comparative proteome and transcriptome analyses of embryonic stem cells during embryoid body-based differentiation. *Proteomics*, **2009**, 9, 4859-70	4.8	50
313	Effect of Secreted Molecules of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells on Acute Hepatic Failure Model. *Stem Cells and Development*, **2016**, 25, 1898-1908	4.4	50
312	Exosomes secreted by hypoxic cardiosphere-derived cells enhance tube formation and increase pro-angiogenic miRNA. *Journal of Cellular Biochemistry*, **2018**, 119, 4150-4160	4.7	47
311	DNA methylation regulates discrimination of enhancers from promoters through a H3K4me1-H3K4me3 seesaw mechanism. *BMC Genomics*, **2017**, 18, 964	4.5	46
310	Glycogen synthase kinase-3 inhibition promotes proliferation and neuronal differentiation of human-induced pluripotent stem cell-derived neural progenitors. *Stem Cells and Development*, **2012**, 21, 3233-43	4.4	46
309	Induction of active demethylation and 5hmC formation by 5-azacytidine is TET2 dependent and suggests new treatment strategies against hepatocellular carcinoma. *Clinical Epigenetics*, **2015**, 7, 98	7.7	45
308	Mesenchymal stem cell-conditioned medium accelerates regeneration of human renal proximal tubule epithelial cells after gentamicin toxicity. *Experimental and Toxicologic Pathology*, **2013**, 65, 595-600		43
307	Intravitreal Injection of Bone Marrow Mesenchymal Stem Cells in Patients with Advanced Retinitis Pigmentosa; a Safety Study. *Journal of Ophthalmic and Vision Research*, **2017**, 12, 58-64	1.2	43
306	Safety and tolerability of autologous bone marrow mesenchymal stromal cells in ADPKD patients. *Stem Cell Research and Therapy*, **2017**, 8, 116	8.3	42
305	Conversion of Human Fibroblasts to Stably Self-Renewing Neural Stem Cells with a Single Zinc-Finger Transcription Factor. *Stem Cell Reports*, **2016**, 6, 539-551	8	42
304	Intra-articular knee implantation of autologous bone marrow-derived mesenchymal stromal cells in rheumatoid arthritis patients with knee involvement: Results of a randomized, triple-blind, placebo-controlled phase 1/2 clinical trial. *Cytotherapy*, **2018**, 20, 499-506	4.8	41
303	Intra-renal arterial injection of autologous bone marrow mesenchymal stromal cells ameliorates cisplatin-induced acute kidney injury in a rhesus Macaque mulatta monkey model. *Cytotherapy*, **2014**, 16, 734-49	4.8	41
302	Electrospun nanofibrillar surfaces promote neuronal differentiation and function from human embryonic stem cells. *Tissue Engineering - Part A*, **2011**, 17, 3021-31	3.9	40
301	Co-delivery of minocycline and paclitaxel from injectable hydrogel for treatment of spinal cord injury. *Journal of Controlled Release*, **2020**, 321, 145-158	11.7	39
300	Concise review: harmonies played by microRNAs in cell fate reprogramming. *Stem Cells*, **2014**, 32, 3-15	5.8	39

299	A fresh look at the male-specific region of the human Y chromosome. *Journal of Proteome Research*, **2013**, 12, 6-22	5.6	39
298	Fndc5 overexpression facilitated neural differentiation of mouse embryonic stem cells. *Cell Biology International*, **2015**, 39, 629-37	4.5	39
297	MicroRNA-Mediated In Vitro and In Vivo Direct Conversion of Astrocytes to Neuroblasts. *PLoS ONE*, **2015**, 10, e0127878	3.7	39
296	Engineering folate-targeting diselenide-containing triblock copolymer as a redox-responsive shell-sheddable micelle for antitumor therapy in vivo. *Acta Biomaterialia*, **2018**, 76, 239-256	10.8	39
295	Enhanced remyelination following lysolecithin-induced demyelination in mice under treatment with fingolimod (FTY720). *Neuroscience*, **2015**, 311, 34-44	3.9	38
294	In situ formation of interpenetrating polymer network using sequential thermal and click crosslinking for enhanced retention of transplanted cells. *Biomaterials*, **2018**, 170, 12-25	15.6	38
293	Cotransplantation of human embryonic stem cell-derived neural progenitors and schwann cells in a rat spinal cord contusion injury model elicits a distinct neurogenesis and functional recovery. *Cell Transplantation*, **2012**, 21, 827-43	4	38
292	Human cardiomyocytes undergo enhanced maturation in embryonic stem cell-derived organoid transplants. *Biomaterials*, **2019**, 192, 537-550	15.6	38
291	Signaling roadmap modulating naive and primed pluripotency. *Stem Cells and Development*, **2014**, 23, 193-208	4.4	37
290	Differentiation of human embryonic stem cell-derived retinal progenitors into retinal cells by Sonic hedgehog and/or retinal pigmented epithelium and transplantation into the subretinal space of sodium iodate-injected rabbits. *Stem Cells and Development*, **2012**, 21, 42-53	4.4	37
289	Concise review: alchemy of biology: generating desired cell types from abundant and accessible cells. *Stem Cells*, **2011**, 29, 1933-41	5.8	37
288	A testis-derived macroporous 3D scaffold as a platform for the generation of mouse testicular organoids. *Biomaterials Science*, **2019**, 7, 1422-1436	7.4	36
287	DDX3Y, a Male-Specific Region of Y Chromosome Gene, May Modulate Neuronal Differentiation. *Journal of Proteome Research*, **2015**, 14, 3474-83	5.6	36
286	Strategies for In Vivo Genome Editing in Nondividing Cells. *Trends in Biotechnology*, **2018**, 36, 770-786	15.1	36
285	Simultaneous suppression of TGF-□and ERK signaling contributes to the highly efficient and reproducible generation of mouse embryonic stem cells from previously considered refractory and non-permissive strains. *Stem Cell Reviews and Reports*, **2012**, 8, 472-81	6.4	36
284	Vitamin C enhances epigenetic modifications induced by 5-azacytidine and cell cycle arrest in the hepatocellular carcinoma cell lines HLE and Huh7. *Clinical Epigenetics*, **2016**, 8, 46	7.7	36
283	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. *Biomaterials*, **2018**, 159, 174-188	15.6	34
282	Disease-corrected hepatocyte-like cells from familial hypercholesterolemia-induced pluripotent stem cells. *Molecular Biotechnology*, **2013**, 54, 863-73	3	34

281	Inducible VEGF expression by human embryonic stem cell-derived mesenchymal stromal cells reduces the minimal islet mass required to reverse diabetes. *Scientific Reports*, **2015**, 5, 9322	4.9	32
280	Exosomes as a next-generation drug delivery system: An update on drug loading approaches, characterization, and clinical application challenges. *Acta Biomaterialia*, **2020**, 113, 42-62	10.8	32
279	Delay in apoptosome formation attenuates apoptosis in mouse embryonic stem cell differentiation. *Journal of Biological Chemistry*, **2014**, 289, 16905-13	5.4	31
278	Cell-based therapeutics for liver disorders. *British Medical Bulletin*, **2011**, 100, 157-72	5.4	31
277	Tissue Engineering in Liver Regenerative Medicine: Insights into Novel Translational Technologies. *Cells*, **2020**, 9,	7.9	31
276	miR-302/367-induced neurons reduce behavioral impairment in an experimental model of Alzheimer's disease. *Molecular and Cellular Neurosciences*, **2018**, 86, 50-57	4.8	31
275	THERAPY OF ENDOCRINE DISEASE: Islet transplantation for type 1 diabetes: so close and yet so far away. *European Journal of Endocrinology*, **2015**, 173, R165-83	6.5	29
274	In vivo conversion of astrocytes to myelinating cells by miR-302/367 and valproate to enhance myelin repair. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e462-e472	4.4	29
273	Treatment of human embryonic stem cells with different combinations of priming and inducing factors toward definitive endoderm. *Stem Cells and Development*, **2013**, 22, 1419-32	4.4	29
272	ISL1 protein transduction promotes cardiomyocyte differentiation from human embryonic stem cells. *PLoS ONE*, **2013**, 8, e55577	3.7	29
271	Fabrication of microporous inorganic microneedles by centrifugal casting method for transdermal extraction and delivery. *International Journal of Pharmaceutics*, **2019**, 558, 299-310	6.5	28
270	Facile fabrication of egg white macroporous sponges for tissue regeneration. *Advanced Healthcare Materials*, **2015**, 4, 2281-90	10.1	28
269	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. *Journal of Proteome Research*, **2015**, 14, 3595-605	5.6	27
268	Novel therapeutic approaches for treatment of COVID-19. *Journal of Molecular Medicine*, **2020**, 98, 789-803	5.5	27
267	Y Chromosome Missing Protein, TBL1Y, May Play an Important Role in Cardiac Differentiation. *Journal of Proteome Research*, **2017**, 16, 4391-4402	5.6	27
266	Generation of human induced pluripotent stem cells from a Bombay individual: moving towards "universal-donor" red blood cells. *Biochemical and Biophysical Research Communications*, **2010**, 391, 329-34	3.4	27
265	Engineering a Model to Study Viral Infections: Bioprinting, Microfluidics, and Organoids to Defeat Coronavirus Disease 2019 (COVID-19). *International Journal of Bioprinting*, **2020**, 6, 302	6.2	27
264	Synergistic effect of strontium, bioactive glass and nano-hydroxyapatite promotes bone regeneration of critical-sized radial bone defects. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 50-64	3.5	27

263	Mesenchymal stem cells seeded onto tissue-engineered osteoinductive scaffolds enhance the healing process of critical-sized radial bone defects in rat. *Cell and Tissue Research*, **2018**, 374, 63-81	4.2	26
262	Induced expression of Fndc5 significantly increased cardiomyocyte differentiation rate of mouse embryonic stem cells. *Gene*, **2014**, 551, 127-37	3.8	26
261	Small RNA Sequencing Reveals Dlk1-Dio3 Locus-Embedded MicroRNAs as Major Drivers of Ground-State Pluripotency. *Stem Cell Reports*, **2017**, 9, 2081-2096	8	26
260	Therapeutic potential of human induced pluripotent stem cell-derived mesenchymal stem cells in mice with lethal fulminant hepatic failure. *Cell Transplantation*, **2013**, 22, 1785-99	4	25
259	Dehydroepiandrosterone stimulates neurogenesis in mouse embryonal carcinoma cell- and human embryonic stem cell-derived neural progenitors and induces dopaminergic neurons. *Stem Cells and Development*, **2010**, 19, 809-18	4.4	25
258	Embryonic stem cell-derived cardiomyocytes as a model system to study cardioprotective effects of dexamethasone in doxorubicin cardiotoxicity. *Toxicology in Vitro*, **2009**, 23, 1422-8	3.6	25
257	Intraportal Infusion of Bone Marrow Mononuclear or CD133+ Cells in Patients With Decompensated Cirrhosis: A Double-Blind Randomized Controlled Trial. *Stem Cells Translational Medicine*, **2016**, 5, 87-94	6.9	25
256	Improving anti-hemolytic, antibacterial and wound healing properties of alginate fibrous wound dressings by exchanging counter-cation for infected full-thickness skin wounds. *Materials Science and Engineering C*, **2020**, 107, 110321	8.3	25
255	Electrically conductive materials for in vitro cardiac microtissue engineering. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 1203-1213	5.4	24
254	Nanotopographical control of human embryonic stem cell differentiation into definitive endoderm. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3539-53	5.4	24
253	Ascorbic acid promotes the direct conversion of mouse fibroblasts into beating cardiomyocytes. *Biochemical and Biophysical Research Communications*, **2015**, 463, 699-705	3.4	24
252	Comparative proteomic analysis of mouse embryonic stem cells and neonatal-derived cardiomyocytes. *Biochemical and Biophysical Research Communications*, **2006**, 349, 1041-9	3.4	24
251	Two Splice Variants of Y Chromosome-Located Lysine-Specific Demethylase 5D Have Distinct Function in Prostate Cancer Cell Line (DU-145). *Journal of Proteome Research*, **2015**, 14, 3492-502	5.6	23
250	ERK1/2 is a key regulator of Fndc5 and PGC1 expression during neural differentiation of mESCs. *Neuroscience*, **2015**, 297, 252-61	3.9	23
249	Surface modification of poly(2-hydroxyethyl methacrylate) hydrogel for contact lens application. *Polymers for Advanced Technologies*, **2018**, 29, 1227-1233	3.2	23
248	Human embryonic stem cell-derived cardiovascular progenitor cells efficiently colonize in bFGF-tethered natural matrix to construct contracting humanized rat hearts. *Biomaterials*, **2018**, 154, 99-112	15.6	23
247	Avian embryos and related cell lines: A convenient platform for recombinant proteins and vaccine production. *Biotechnology Journal*, **2017**, 12, 1600598	5.6	22
246	Quantitative proteomics analysis highlights the role of redox hemostasis and energy metabolism in human embryonic stem cell differentiation to neural cells. *Journal of Proteomics*, **2014**, 101, 1-16	3.9	22

245	In vivo conversion of astrocytes into oligodendrocyte lineage cells with transcription factor Sox10; Promise for myelin repair in multiple sclerosis. *PLoS ONE*, **2018**, 13, e0203785	3.7	22
244	Draft genome of provides insights into conserved regulatory elements of the brain restriction gene in planarians. *Zoological Letters*, **2018**, 4, 24	3	22
243	Galactosylated collagen matrix enhanced in vitro maturation of human embryonic stem cell-derived hepatocyte-like cells. *Biotechnology Letters*, **2014**, 36, 1095-106	3	21
242	In vivo integration of poly(□caprolactone)/gelatin nanofibrous nerve guide seeded with teeth derived stem cells for peripheral nerve regeneration. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4554-67	5.4	21
241	Derivation of new human embryonic stem cell lines from preimplantation genetic screening and diagnosis-analyzed embryos. *In Vitro Cellular and Developmental Biology - Animal*, **2010**, 46, 395-402	2.6	21
240	Brief azacytidine step allows the conversion of suspension human fibroblasts into neural progenitor-like cells. *Cell Journal*, **2015**, 17, 153-8	2.4	21
239	Generation of functional human pancreatic organoids by transplants of embryonic stem cell derivatives in a 3D-printed tissue trapper. *Journal of Cellular Physiology*, **2019**, 234, 9564-9576	7	21
238	Modification of PDMS to fabricate PLGA microparticles by a double emulsion method in a single microfluidic device. *Lab on A Chip*, **2016**, 16, 2596-600	7.2	20
237	Quantitative proteomic analysis of human embryonic stem cell differentiation by 8-plex iTRAQ labelling. *PLoS ONE*, **2012**, 7, e38532	3.7	20
236	Transition of inner cell mass to embryonic stem cells: mechanisms, facts, and hypotheses. *Cellular and Molecular Life Sciences*, **2019**, 76, 873-892	10.3	20
235	Cannabidiol-loaded microspheres incorporated into osteoconductive scaffold enhance mesenchymal stem cell recruitment and regeneration of critical-sized bone defects. *Materials Science and Engineering C*, **2019**, 101, 64-75	8.3	19
234	Transcription factor-mediated reprograming of fibroblasts to hepatocyte-like cells. *European Journal of Cell Biology*, **2015**, 94, 603-10	6.1	19
233	Suppression of transforming growth factor □signaling promotes ground state pluripotency from single blastomeres. *Human Reproduction*, **2014**, 29, 1739-48	5.7	19
232	Resveratrol promotes human embryonic stem cells self-renewal by targeting SIRT1-ERK signaling pathway. *European Journal of Cell Biology*, **2017**, 96, 665-672	6.1	19
231	Allogeneic cell therapy manufacturing: process development technologies and facility design options. *Expert Opinion on Biological Therapy*, **2017**, 17, 1201-1219	5.4	19
230	Microparticle-Mediated Delivery of BMP4 for Generation of Meiosis-Competent Germ Cells from Embryonic Stem Cells. *Macromolecular Bioscience*, **2017**, 17, 1600284	5.5	19
229	Transplantation of adult monkey neural stem cells into a contusion spinal cord injury model in rhesus macaque monkeys. *Cell Journal*, **2014**, 16, 117-130	2.4	19
228	Type 1 Diabetes Mellitus: Cellular and Molecular Pathophysiology at A Glance. *Cell Journal*, **2018**, 20, 294-301	2.4	19

227	Human Hair Reconstruction: Close, But Yet So Far. *Stem Cells and Development*, **2016**, 25, 1767-1779	4.4	19
226	Cellular and molecular characterization of human cardiac stem cells reveals key features essential for their function and safety. *Stem Cells and Development*, **2015**, 24, 1390-404	4.4	18
225	Direct conversion of human fibroblasts into dopaminergic neural progenitor-like cells using TAT-mediated protein transduction of recombinant factors. *Biochemical and Biophysical Research Communications*, **2015**, 459, 655-61	3.4	18
224	Prospective Isolation of ISL1 Cardiac Progenitors from Human ESCs for Myocardial Infarction Therapy. *Stem Cell Reports*, **2018**, 10, 848-859	8	18
223	Tolerance induction by surface immobilization of Jagged-1 for immunoprotection of pancreatic islets. *Biomaterials*, **2018**, 182, 191-201	15.6	18
222	Therapeutic potential of human-induced pluripotent stem cell-derived endothelial cells in a bleomycin-induced scleroderma mouse model. *Stem Cell Research*, **2013**, 10, 288-300	1.6	18
221	Enhanced expression of FNDC5 in human embryonic stem cell-derived neural cells along with relevant embryonic neural tissues. *Gene*, **2015**, 557, 123-9	3.8	18
220	Toxicity of ecstasy (MDMA) towards embryonic stem cell-derived cardiac and neural cells. *Toxicology in Vitro*, **2010**, 24, 1133-8	3.6	18
219	Proteomic analysis of monkey embryonic stem cell during differentiation. *Journal of Proteome Research*, **2009**, 8, 1527-39	5.6	18
218	Induction of Neural Progenitor-Like Cells from Human Fibroblasts via a Genetic Material-Free Approach. *PLoS ONE*, **2015**, 10, e0135479	3.7	18
217	Design and characterization of an electroconductive scaffold for cardiomyocytes based biomedical assays. *Materials Science and Engineering C*, **2020**, 109, 110603	8.3	18
216	Quantitative proteomic analysis of human testis reveals system-wide molecular and cellular pathways associated with non-obstructive azoospermia. *Journal of Proteomics*, **2017**, 162, 141-154	3.9	17
215	Nurr1 and PPAR protect PC12 cells against MPP(+) toxicity: involvement of selective genes, anti-inflammatory, ROS generation, and antimitochondrial impairment. *Molecular and Cellular Biochemistry*, **2016**, 420, 29-42	4.2	17
214	Differentiation of human embryonic stem cells to hepatocyte-like cells on a new developed xeno-free extracellular matrix. *Histochemistry and Cell Biology*, **2014**, 142, 217-26	2.4	17
213	Polycaprolactone-templated reduced-graphene oxide liquid crystal nanofibers towards biomedical applications. *RSC Advances*, **2017**, 7, 39628-39634	3.7	17
212	Stem cell and tissue engineering research in the Islamic republic of Iran. *Stem Cell Reviews and Reports*, **2012**, 8, 629-39	6.4	17
211	Derivation of Pluripotent Cells from Mouse SSCs Seems to Be Age Dependent. *Stem Cells International*, **2016**, 2016, 8216312	5	17
210	Optimizing methods for human testicular tissue cryopreservation and spermatogonial stem cell isolation. *Journal of Cellular Biochemistry*, **2019**, 120, 613-621	4.7	17

209	Repeated Intraportal Injection of Mesenchymal Stem Cells in Combination with Pioglitazone in Patients with Compensated Cirrhosis: A Clinical Report of Two Cases. *Archives of Iranian Medicine*, **2016**, 19, 131-6	2.4	17
208	Engineering natural heart valves: possibilities and challenges. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1675-1683	4.4	16
207	Organoid technology in female reproductive biomedicine. *Reproductive Biology and Endocrinology*, **2020**, 18, 64	5	16
206	Human embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure. *World Journal of Stem Cells*, **2020**, 12, 857-878	5.6	16
205	Optogenetics in the Era of Cerebral Organoids. *Trends in Biotechnology*, **2019**, 37, 1282-1294	15.1	15
204	Insufficient Apaf-1 expression in early stages of neural differentiation of human embryonic stem cells might protect them from apoptosis. *European Journal of Cell Biology*, **2018**, 97, 126-135	6.1	15
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