



حسین بهاروند

استاد

محل خدمت: پژوهشگاه علوم سلولی (رویان)



سوابق تحصیلی			
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اطلاعات استخدامی				
محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
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سوابق اجرایی

مدیر گروه پژوهشی سلولهای بنیادی پژوهشگاه رویان

عضو هیات علمی پژوهشگاه رویان

مقالات در نشریات

1. Haddadi, M., H., Negahdari, B., Hajizadeh, Saffar, E., (...), Dabiri, H., Baharvand, H., Directed differentiation of regulatory T cells from naive T cells and prevention of their inflammation-mediated instability using small molecules, *Clinical and Experimental Immunology*, 2020 8 1
2. Taleahmad, S., Salari, A., Samadian, A., (...), Baharvand, H., Hosseini Salekdeh, G., BMP4 signaling plays critical roles in self-renewal of R γ i mouse embryonic stem cells. *Biochemical and Biophysical Research Communications*, 2022 8 20
3. Saffar, E., Baharvand, H., Izadi, M., Sadr Hashemi Nejad, A., Moazenchi, M., (...), Hajizadeh H., Mesenchymal stem cell transplantation in newly diagnosed type-1 diabetes patients: a phase I/II randomized placebo-controlled clinical trial. *Stem Cell Research and Therapy*, 2022 12 1
4. Babaahmadi, M., Tayebi, B., Gholipour, N.M., (...), Hajizadeh, Saffar, E., Hassani, S., N., Long-term passages of human clonal mesenchymal stromal cells can alleviate the disease in the rat model of collagen-induced arthritis resembling early passages of different heterogeneous cells. *Journal of Tissue Engineering and Regenerative Medicine*, 2022 12 1
5. Nikasa, P., Tricot, T., Mahdieh, N., (...), Hejazi, M.S., Verfaillie, C.M., Patient-Specific Induced Pluripotent Stem Cell-Derived Hepatocyte-Like Cells as a Model to Study Autosomal Recessive

- .Hypercholesterolemia.Stem Cells and Development.۲۰۲۱ ۷ ۱۵
- Nikasa, P., Tricot, T., Mahdih, N., (...), Hejazi, M.S., Verfaillie, C.M. Patient-Specific Induced ۶
Pluripotent Stem Cell-Derived Hepatocyte-Like Cells as a Model to Study Autosomal Recessive
.Hypercholesterolemia.Stem Cells and Development.۲۰۲۱ ۷ ۱۵
- Yazdi, A., Baharvand, H., Javan, M. Corrigendum to "Enhanced Remyelination Following ۷
Lysolecithin-induced Demyelination in Mice Under Treatment with Fingolimod
(FTY۷۲۰)".Neuroscience.۲۰۲۱ ۷ ۱
- Nobakht Lahrood, F., Saheli, M., Farzaneh, Z., (...), Vosough, M., Piryaee, A. Generation of ۸
transplantable three-dimensional hepatic-patch to improve the functionality of hepatic cells in
Stem, vitro and in vivo Nobakht Lahrood, F., Saheli, M., Farzaneh, Z., (...), Vosough, M., Piryaee, A
.Cells and Development, ۲۰۲۰ ۳ ۱
- Gachi, M., (...), Nourbakhsh, M.S., Baharvand, ۹ Hosseini Salekdeh, S.S., Daemi, H., Zare ۹
H. Assessment of the Efficacy of Tributylammonium Alginate Surface-Modified Polyurethane as
an Antibacterial Elastomeric Wound Dressing for both Noninfected and Infected Full-Thickness
.Wounds.ACS Applied Materials and Interfaces.۲۰۲۰ ۱ ۲۲
- Taleahmad, S., Mirzaei, M., Samadian, A., (...), Salekdeh, G.H., Baharvand, H. Low focal ۱۰
adhesion signaling promotes ground state pluripotency of mouse embryonic stem cells. Journal
.of Proteome Research.۲۰۱۷
- Alikhani, M., Mirzaei, M., Sabbaghian, M., (...), Baharvand, H., Salekdeh, G.H. Quantitative ۱۱
proteomic analysis of human testis reveals system-wide molecular and cellular pathways
associated with non-obstructive azoospermia. Journal of Proteomics.۲۰۱۷
- Talkhabi, M., Zonooz, E.R., Baharvand, H. Boosters and barriers for direct cardiac ۱۲
.reprogramming. Life Sciences.۲۰۱۷
- Ghazizadeh, Z., Rassouli, H., Fonoudi, H., (...), Aghdami, N., Salekdeh, G.H. Transient ۱۳
Activation of Reprogramming Transcription Factors Using Protein Transduction Facilitates
Conversion of Human Fibroblasts Toward Cardiomyocyte-Like Cells. Molecular
.Biotechnology, ۲۰۱۷
- ۱۴
- https://isid.research.ac.ir/Hosseini_Baharvand#:~:text=Fathi%۲C%۲۰A.%۲C%۲۰Eisa%۲DBeygi%۲C%۲۰S.%۲C%۲۰Baharvand%۲C%۲۰H. Signaling molecules governing pluripotency and early lineage ۱۵
commitments in human pluripotent stem cells. Cell Journal.۲۰۱۷
- Dezfouli, M.R.M., Chaleshtori, S.S., Dehghan, M.M., (...), Baharvand, H., Tahamtani, Y. The ۱۵
therapeutic potential of differentiated lung cells from embryonic stem cells in lung
.diseases. Current Stem Cell Research and Therapy.۲۰۱۷
- Pourgholaminejad, A., Aghdami, N., Baharvand, H., Moazzeni, S.M. Is TGFbeta as an anti- ۱۶
inflammatory cytokine required for differentiation of inflammatory TH۱۷ cells?. Journal of
.Immunotoxicology.۲۰۱۶
- Bahrebar, K., Valojerdi, M.R., Esfandiari, F., (...), Hassani, S., & N., Baharvand, H. Human ۱۷
embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure, World
.Journal of Stem Cells
- Rabani, V., Baharvand, H. Matrix metalloproteinase's role in producing and curing of liver ۱۸
.fibrosis, Yakhteh, Yakhteh
- Najar, & Asl, M., Halvaei, M., Abolhasani, R., (...), Kazemi Ashtiani, M., Baharvand, ۱۹
H. Enhanced development of human pluripotent stem cell-derived cerebral organoids via an
.electrical stimulation bioreactor, Chemical Engineering Journal, 2024 5 1
- Aram, E., Sadeghi, & Abandansari, H., Radmanesh, F., (...), Baharvand, H., Sabour, D. Shell- ۲۰
sheddable and charge switchable magnetic nanoparticle as pH-sensitive nanocarrier for targeted
.drug delivery applications, Polymers for Advanced Technologies, 2024 4 1
- Zarkesh, I., Movahedi, F., Sadeghi, & Abandansari, H., (...), Soleimani, M., Baharvand, H., ROS ۲۱
scavenging activity of polydopamine nanoparticle-loaded supramolecular gelatin-based hydrogel

- promoted cardiomyocyte proliferation, *International Journal of Biological Macromolecules*, 2024 2 .1
- Amjad, F., Hajari, M.A., Dalman, A., Baharvand, H., Montazeri, L., *Bioengineering: a promising approach for standardization and automation of assisted reproductive technology*, *F and S Reviews*, 2024 1 1 .22
- Naderi, S., Shiri, Z., Zarei, K., Kheirabadi, M., (...), Hassani, S., N., Baharvand, H., *Cryopreserved clinical-grade human embryonic stem cell-derived dopaminergic progenitors function in Parkinson's disease models*, *Life Sciences*, 2023 9 15 .23
- Kashani, S.A., Navabi, R., Amini, A., (...), Hajizadeh, & Saffar, E., Baharvand, H., *Immunomodulatory potential of human clonal mesenchymal stem cells and their extracellular vesicle subpopulations in an inflammatory-mediated diabetic Rhesus monkey model*, *Life Sciences*, 2023 9 15 .24
- Sharif, S., Mozaffari, & Jovin, S., Alizadeh, F., (...), Nouri, M., Abbaszadegan, M.R., *Isolation of plasma small extracellular vesicles by an optimized size-exclusion chromatography-based method for clinical applications*, *Journal of Drug Delivery Science and Technology*, 2023 9 1 .25
- Amini, A., Shekari, F., Assar Kashani, S., (...), Akbari Javar, H., Baharvand, H., *Clonal mesenchymal stem cell-derived extracellular vesicles improve mouse model of weight drop-induced traumatic brain injury through reducing cistauosis and apoptosis*, *Experimental Neurology*, 2023 9 1 .26
- Noori, A., Dezfouli, M.R.M., Rajabi, S., (...), Chaleshtori, S.S., Tahamtani, Y., *Decellularized Lung Extracellular Matrix Scaffold Promotes Human Embryonic Stem Cell Differentiation towards Alveolar Progenitors*, *Cell Journal*, 2023 6 1 .27
- Nekoueiyard, E., Radmanesh, F., Baharvand, H., (...), Sadeghi, & Abandansari, H., Dinarvand, R., *Reduction-sensitive flower-like magnetomicelles based on PCL-ss-PEG-ss-PCL triblock copolymer as anti-cancer drug delivery system*, *European Polymer Journal*, 2023 5 8 .28
- Eslami, N., Bahrehbar, K., Esfandiari, F., (...), Pakzad, M., Baharvand, H., *Regenerative potential of different extracellular vesicle subpopulations derived from clonal mesenchymal stem cells in a mouse model of chemotherapy-induced premature ovarian failure*, *Life Sciences*, 2023 5 15 .29
- Baei, P., Daemi, H., Aramesh, F., Baharvand, H., Eslaminejad, M.B., *Advances in mechanically robust and biomimetic polysaccharide-based constructs for cartilage tissue engineering*, *Carbohydrate Polymers*, 2023 5 15 .30
- Tayebi, B., Molazem, M., Babaahmadi, M., (...), Hassani, S., N., Hajizadeh, Saffar, E., *Comparison of Ultrasound-Guided Percutaneous and Open Surgery Approaches in The Animal Model of Tumor Necrosis Factor-Alpha-Induced Disc Degeneration*, *Cell Journal*, 2023 5 15 .31
- Ghorbaninejad, M., Asadzadeh, & Aghdaei, H., Baharvand, H., Meyfour, A., *Intestinal organoids: A versatile platform for modeling gastrointestinal diseases and monitoring epigenetic alterations*, *Life Sciences*, 2023 4 15 .32
- Zarrabi, M., Shahrabaf, M.A., Nouri, M., (...), Vosough, M., Baharvand, H., *Allogenic mesenchymal stromal cells and their extracellular vesicles in COVID-19 induced ARDS: a randomized controlled trial*, *Stem Cell Research and Therapy*, 2023 12 1 .33
- Babaahmadi, M., Tayebi, B., Gholipour, N.M., (...), Hajizadeh, Saffar, E., Hassani, S., N., *Rheumatoid arthritis: the old issue, the new therapeutic approach*, *Stem Cell Research and Therapy*, 2023 12 1 .34
- Mansouri, & Kivaj, N., Nazari, A., Esfandiari, F., (...), Pakzad, M., Baharvand, H., *Homogenous subpopulation of human mesenchymal stem cells and their extracellular vesicles restore function of endometrium in an experimental rat model of Asherman syndrome*, *Stem Cell Research and Therapy*, 2023 12 1 .35
- Mokhtarzadeh Khanghahi, A., Rayatpour, A., Baharvand, H., Javan, M., *Neuroglial components of brain lesions may provide new therapeutic strategies for multiple sclerosis*, *Neurological Sciences*, 2023 11 1 .36

Ghorbaninejad, Z., Eghbali, A., Ghorbaninejad, M., (...), Eftekhari, & Yazdi, P., Esfandiari, .37
F., Carob extract induces spermatogenesis in an infertile mouse model via upregulation of Prm1,
.Plzf, Bcl-6b, Dazl, Ngn3, Stra8, and Smc1b, *Journal of Ethnopharmacology*, 2023 1 30

Saadati, M., Akhavan, O., Fazli, H., Nemati, S., Baharvand, H., Controlled Differentiation of .38
Human Neural Progenitor Cells on Molybdenum Disulfide/Graphene Oxide Heterojunction
.Scaffolds by Photostimulation, *ACS Applied Materials and Interfaces*, 2023

Abbasalizadeh, S., Babaei, S., Kowsari, & Esfahan, R., (...), Traverso, G., Baharvand, .39
H., Continuous Production of Highly Functional Vascularized Hepatobiliary Organoids from
Human Pluripotent Stem Cells using a Scalable Microfluidic Platform, *Advanced Functional
.Materials*, 2023

Li, H., Meng, X., Sheng, H., (...), Li, Y., Chen, J., NIR-II live imaging study on the degradation .40
.pattern of collagen in the mouse model, *Regenerative Biomaterials*, 2023

Moradi, S., Guenther, S., Soori, S., (...), Braun, T., Baharvand, H., Time-resolved Small-RNA .41
Sequencing Identifies MicroRNAs Critical for Formation of Embryonic Stem Cells from the Inner
.Cell Mass of Mouse Embryos, *Stem Cell Reviews and Reports*, 2023

Simorgh, S., Mousavi, S.A., To, S.K., (...), Verfaillie, C., Baharvand, H., A FACILE METHOD TO .42
GENERATE CEREBRAL ORGANIDS FROM HUMAN PLURIPOTENT STEM CELLS, *EXCLI
.Journal*, 2023

Alipour, F., Ahmadraji, M., Yektadoust, E., (...), Baharvand, H., Basiri, M., CRISPR/Cas9- .43
Mediated Generation of COL7A1-Deficient Keratinocyte Model of Recessive Dystrophic
.Epidermolysis Bullosa, *Cell Journal*, 2023

Zare, M., Mirhoseini, S.Z., Ghovvati, S., (...), Baharvand, H., Hassani, S., & N., The constitutively .44
active pSMAD2/3 relatively improves the proliferation of chicken primordial germ cells, *Molecular
.Reproduction and Development*, 2023

Sahraneshin, Samani, F., Kazemi, Ashtiani, M., Karimi, H., (...), Baharvand, H., Daemi, .45
H., Regioselective sulfated chitosan produces a biocompatible and antibacterial wound dressing
.with low inflammatory response, *Biomaterials Advances*, 2022 8 1

Heidari, & Khoei, H., Esfandiari, F., Moini, A., (...), Piryaee, A., Baharvand, H., Derivation of .46
hormone-responsive human endometrial organoids and stromal cells from cryopreserved
.biopsies, *Experimental Cell Research*, 2022 8 1

Esfandiari, F., Mansouri, N., Shahhoseini, M., (...), Vankelecom, H., Baharvand, .47
H., Endometriosis organoids: prospects and challenges, *Reproductive BioMedicine Online*, 2022 7
.1

Farhadi, A., Totonchi, M., Nabavi, S.M., (...), Tahamtani, Y., Shahpasand, K., P38 initiates .48
degeneration of midbrain GABAergic and glutamatergic neurons in diabetes models, *European
.Journal of Neuroscience*, 2022 7 1

Azadbakht, M., Sayadmanesh, A., Nazer, N., (...), Aghamaali, M.R., Basiri, M., CRISPRi- .49
mediated knock-down of PRDM1/BLIMP1 programs central memory differentiation in ex vivo-
.expanded human T cells, *BioImpacts*, 2022 7 1

Kay, M., Soltani, B.M., Nemir, M., (...), Baharvand, H., Pedrazzini, T., The conserved long non- .50
coding RNA CARMA regulates cardiomyocyte differentiation, *Cardiovascular Research*, 2022 6 1
.Cardiovascular Research

Hesaraki, M., Bora, U., Pahlavan, S., (...), Ozhan, G., Totonchi, M., A Novel Missense Variant in .51
Actin Binding Domain of MYH7 Is Associated With Left Ventricular Noncompaction, *Frontiers in
.Cardiovascular Medicine*, 2022 4 8

Zarkesh, I., Kazemi Ashtiani, M., Shiri, Z., (...), Braun, T., Baharvand, H., Synthetic .52
developmental biology: Engineering approaches to guide multicellular organization, *Stem Cell
.Reports*, 2022 4 12

Moradi, S., Kamal, A., Es, H.A., (...), Sharifi, & Zarchi, A., Baharvand, H., Pan-cancer analysis of .53
microRNA expression profiles highlights microRNAs enriched in normal body cells as effective

.suppressors of multiple tumor types: A study based on TCGA database, PLoS ONE, 2022 4 1

Samsonchi, Z., Karimi, H., Izadi, Z., (...), Hajizadeh, & Saffar, E., Daemi, H., Transplantation of .54
Islet-Containing microcapsules modified with constitutional isomers of sulfated alginate in
diabetic mice to mitigate fibrosis for Long-term glycemic control, Chemical Engineering
.Journal, 2022 3 15

Topraggaleh, T.R., Rezazadeh Valojerdi, M., Montazeri, L., Baharvand, H., Erratum: A testis- .55
derived macroporous 3D scaffold as a platform for the generation of mouse testicular
organoids, Biomaterials Science, 2022 2 23

Vosough, M., Nikfam, S., Torabi, S., (...), Baharvand, H., Mohamadnejad, M., Original .56
Article, Cell Journal, 2022 2 1

Tayebi, B., Babaahmadi, M., Pakzad, M., (...), Hassani, S., N., Hajizadeh, Saffar, E., Standard .57
toxicity study of clinical-grade allogeneic human bone marrow-derived clonal mesenchymal
stromal cells, Stem Cell Research and Therapy, 2022 12 1

Khani, F., Nafian, S., Mollamohammadi, S., (...), Soleimanpour, & Ichaei, H.R., Salekdeh, .58
G.H., Y Chromosome Genes May Play Roles in the Development of Neural Rosettes from Human
Embryonic Stem Cells, Stem Cell Reviews and Reports, 2022 12 1

Moeinvaziri, F., Zarkesh, I., Pooyan, P., Nunez, D.A., Baharvand, H., Inner ear organoids: .59
progress and outlook, with a focus on the vascularization, FEBS Journal, 2022 12 1

Pakzad, M., Hassani, S.N., Abbasi, F., (...), Dominici, M., Baharvand, H., A Roadmap for the .60
Production of a GMP-Compatible Cell Bank of Allogeneic Bone Marrow-Derived Clonal
Mesenchymal Stromal Cells for Cell Therapy Applications, Stem Cell Reviews and Reports, 2022
.10 1

Najar, Asl, M., Bahadoran, H., Asadi, M., H., (...), Baharvand, H., Piryaeei, .61
A., TRANSPLANTATION OF SDF-1alpha-LOADED LIVER EXTRACELLULAR MATRIX REPOPULATED
WITH AUTOLOGOUS CELLS ATTENUATED LIVER FIBROSIS IN A RAT MODEL, EXCLI Journal, 2022
.1 3

Hezavehei, M., Mirzaei, M., Sharafi, M., (...), Shahverdi, A., Salekdeh, G.H., Proteomics study .62
reveals the molecular mechanisms underlying cryotolerance induced by mild sublethal stress in
human sperm, Cell and Tissue Research, 2022 1 1

Ghezelayagh, Z., Zabihi, M., Zarkesh, I., (...), Aghayan, H.R., Tahamtani, Y., Improved .63
Differentiation of hESC-Derived Pancreatic Progenitors by Using Human Fetal Pancreatic
Mesenchymal Cells in a Micro-scalable Three-Dimensional Co-culture System, Stem Cell Reviews
and Reports, 2022 1 1

Saberi, S., Esmaeili, M., Tashakoripour, M., (...), Baharvand, H., Mohammadi, M., Infection with .64
a hypervirulent strain of Helicobacter pylori primes gastric cells toward intestinal
transdifferentiation, Microbial Pathogenesis, 2022 1 1

Hassani, S., N., Totonchi, M., Sharifi, Zarchi, A., (...), Scholer, H.R., Baharvand, H., Correction .65
to: Inhibition of TGFbeta Signaling Promotes Ground State Pluripotency, Stem Cell Reviews and
Reports, 2022 1 1

Ghazizadeh, Z., Rassouli, H., Fonoudi, H., (...), Aghdami, N., Salekdeh, G.H., Retraction Note to: .66
Transient Activation of Reprogramming Transcription Factors Using Protein Transduction
Facilitates Conversion of Human Fibroblasts Toward Cardiomyocyte-Like Cells, Molecular
Biotechnology, 2022

Rezaei Zonooz, E., Ghezelayagh, Z., Moradmand, A., Baharvand, H., Tahamtani, Y., Protocol- .67
Dependent Morphological Changes in Human Embryonic Stem Cell Aggregates during
Differentiation toward Early Pancreatic Fate, Cells Tissues Organs, 2022

Gholami, S., Mohebi, M., M., Hajizadeh, Saffar, E., (...), Zarkesh, I., Baharvand, .68
H., Corrigendum to "Fabrication of microporous inorganic microneedles by centrifugal casting
method for transdermal extraction and delivery", International Journal of Pharmaceutics, 2021 9 5

Baei, P., Daemi, H., Mostafaei, F., (...), Baharvand, H., Baghaban Eslaminejad, M., A tough .69

polysaccharide-based cell-laden double-network hydrogel promotes articular cartilage tissue .regeneration in rabbits,Chemical Engineering Journal,2021 8 15

Radmanesh, F., Sadeghi Abandansari, H., Ghanian, M.H., (...), Braun, T., Baharvand, .70
H.,Hydrogel-mediated delivery of microRNA-92a inhibitor polyplex nanoparticles induces .localized angiogenesis,Angiogenesis,2021 8 1

Gholami, S., Mazidi, Z., Pahlavan, S., (...), Aghdami, N., Baharvand, H.,A novel insight into .71
endothelial and cardiac cells phenotype in systemic sclerosis using patient-derived induced .pluripotent stem cell,Cell Journal,2021 8 1

Ghodsizadeh, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Correction to: .72
Generation of Liver Disease-Specific Induced Pluripotent Stem Cells along with Efficient .Differentiation to Functional Hepatocyte-like Cells,Stem Cell Reviews and Reports,2021 8 1

Ahmadi, A., Moghadasali, R., Ezzatizadeh, V., (...), Baharvand, H., Aghdami, N.,Retraction .73
Note: Transplantation of Mouse Induced Pluripotent Stem Cell-Derived Podocytes in a Mouse .Model of Membranous Nephropathy Attenuates Proteinuria,Scientific reports,2021 7 5

Esfandiari, F., Heidari Khoei, H., Saber, M., (...), Ghaffari, F., Baharvand, H.,Disturbed .74
progesterone signalling in an advanced preclinical model of endometriosis,Reproductive .BioMedicine Online,2021 7 1

Navabi, R., Negahdari, B., Hajizadeh ,& Saffar, E., (...), Tahamtani, Y., Baharvand, H.,Combined .75
therapy of mesenchymal stem cells with a GLP-1 receptor agonist, liraglutide, on an .inflammatory-mediated diabetic non-human primate model,Life Sciences,2021 7 1

Kamali, A., Oryan, A., Hosseini, S., (...), Eslaminejad, M.B., Baharvand, H.,Corrigendum to .76
"Cannabidiol-loaded microspheres incorporated into osteoconductive scaffold enhance mesenchymal stem cell recruitment and regeneration of critical-sized bone defects",Materials .Science and Engineering C,2021 7 1

Zahmatkesh, E., Ghanian, M.H., Zarkesh, I., (...), Baharvand, H., Vosough, M.,Tissue-specific .77
microparticles improve organoid microenvironment for efficient maturation of pluripotent stem- .cell-derived hepatocytes,Cells,2021 6 1

Montazeri, L., Mohajeri, M., Baharvand, H., (...), Ahmadi, F., Mowla, S.J.,Two leading .78
international congresses in Iran in the era of COVID-19: 21st royan international twin congress, .4th international and 16th Iranian genetics congress,BioEssays,2021 6 1

Ehsani, E., Shekarchian, S., Baharvand, H., Aghdami, N., Moghadasali, R.,Corrigendum to .79
"Improved differentiation of human enriched CD133+CD24+ renal progenitor cells derived from embryonic stem cell with embryonic mouse kidney-derived mesenchymal stem cells co- .culture",Differentiation,2021 5 1

Pakzad, M., Ashtiani, M.K., Mousavi ,& Gargari, S.L., Baharvand, H.,Correction to: .80
Development of a simple, repeatable, and cost-effective extracellular matrix for long-term xeno- free and feeder-free self-renewal of human pluripotent stem cells,Histochemistry and Cell .Biology,2021 5 1

Shekari, F., Nazari, A., Assar Kashani, S., (...), Lim, R., Baharvand, H.,Pre-clinical investigation .81
of mesenchymal stromal cell-derived extracellular vesicles: a systematic .review,Cytotherapy,2021 4 1

Mostafavi, A., Daemi, H., Rajabi, S., Baharvand, H.,Highly tough and ultrafast self-healable .82
dual physically crosslinked sulfated alginate-based polyurethane elastomers for vascular tissue .engineering,Carbohydrate Polymers,2021 4 1

Khoshdel ,& Rad, N., Zahmatkesh, E., Moeinvaziri, F., (...), Aghdami, N., Moghadasali, .83
R.,Promoting Maturation of Human Pluripotent Stem Cell-Derived Renal Microtissue by .Incorporation of Endothelial and Mesenchymal Cells,Stem Cells and Development,2021 4 1

Dehkordi, S.N., Khani, F., Hassani, S.N., (...), Soleimanpour ,& Lichaei, H.R., Salekdeh, G.H.,The .84
contribution of Y chromosome genes to spontaneous differentiation of human embryonic stem .cells into embryoid bodies in vitro,Cell Journal,2021 4 1

- Corrigendum: "In vivo integration of poly(ϵ - caprolactone)/gelatin nanofibrous nerve guide .85
seeded with teeth derived stem cells for peripheral nerve regeneration",*Journal of Biomedical
Materials Research - Part A*,2021 4 1
- Sotoodehnejadnematalahi, F., Moghadasali, R., Hajinasrollah, M., (...), Baharvand, H., .86
Aghdami, N.,*Immunomodulatory activity of human bone marrow and adipose-derived
mesenchymal stem cells prolongs allogenic skin graft survival in nonhuman primates*,*Cell
Journal*,2021 4 1
- Tafti, Z.A., Mahmoodi, M., Hajizadeh, M.R., (...), Vosough, M., Piryaee, A.,*Erratum: Conditioned .87
media derived from human adipose tissue mesenchymal stromal cells improves primary
hepatocyte maintenance*,*Cell Journal*,2021 4 1
- Karbalaie, K., Tanhaei, S., Rabiei, F., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,*Erratum: Stem .88
cells from human exfoliated deciduous tooth exhibit stromal-derived inducing activity and lead to
generation of neural crest cells from human embryonic stem cells*,*Cell Journal*,2021 4 1
- Mokhber Dezfouli, M.R., Chaleshtori, S.S., Moradmand, A., (...), Baharvand, H., Tahamtani, .89
Y.,*Erratum: Hydrocortisone promotes differentiation of mouse embryonic stem cell-derived
definitive endoderm toward lung alveolar epithelial cells*,*Cell Journal*,2021 4 1
- Ghazizadeh, Z., Fattahi, F., Mirzaei, M., (...), Lee, B., Salekdeh, G.H.,*Erratum: Prospective .90
Isolation of ISL1+ Cardiac Progenitors from Human ESCs for Myocardial Infarction Therapy
(Stem Cell Reports*,*Stem Cell Reports*,2021 3 9
- Ranjbarvaziri, S., Kiani, S., Akhlaghi, A., (...), Baharvand, H., Aghdami, N.,*Corrigendum to .91
"Quantum dot labeling using positive charged peptides in human hematopoietic and
mesenchymal stem cells"*,*Biomaterials*,2021 3 1
- Montazeri, L., Kowsari ,& Esfahan, R., Pahlavan, S., (...), Braun, T., Baharvand, H.,*Oxygen-rich .92
Environment Ameliorates Cell Therapy Outcomes of Cardiac Progenitor Cells for Myocardial
Infarction*,*Materials Science and Engineering C*,2021 2 1
- Hashemian, S. ,& M.R., Aliannejad, R., Zarrabi, M., (...), Vasei, M., Baharvand, H.,*Mesenchymal .93
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 1
- Heydari, Z., Moeinvaziri, F., Agarwal, T., (...), Baharvand, H., Vosough, M.,*Organoids: a novel .94
modality in disease modeling*,*Bio-Design and Manufacturing*,2021 12 1
- Barati, M., Akhondi, M., Mousavi, N.S., (...), Ebrahimi, M., Hassani, S. ,& N.,*Pluripotent Stem .95
Cells: Cancer Study, Therapy, and Vaccination*,*Stem Cell Reviews and Reports*,2021 12 1
- Heydari, Z., Zarkesh, I., Ghanian, M. ,& H., (...), Baharvand, H., Vosough, M.,*Biofabrication of .96
size-controlled liver microtissues incorporated with ECM-derived microparticles to prolong
hepatocyte function*,*Bio-Design and Manufacturing*,2021 12 1
- Asadi Zarch, M.E., Afshar, A., Rahmanifar, F., (...), Baharvand, H., Tamadon, A.,*Three- .97
dimensional and two-dimensional relationships of gangliogenesis with folliculogenesis in mature
mouse ovary: a Golgi-Cox staining approach*,*Scientific Reports*,2021 12 1
- Karimi, A., Elmi, M., Shiri, Z., Baharvand, H.,*Therapeutic potential of pluripotent stem cell- .98
derived dopaminergic progenitors in Parkinson's disease: a systematic review
protocol*,*Systematic Reviews*,2021 12 1
- Farzaneh, Z., Pournasr, B., Ebrahimi, M., Aghdami, N., Baharvand, H.,*Correction to: Enhanced .99
functions of human embryonic stem cell-derived hepatocyte-like cells on three-dimensional
nanofibrillar surfaces*,*Stem Cell Reviews and Reports*,2021 12 1
- Zandi, A., Rafizadeh ,& Tafti, S., Shojaeian, F., (...), Baharvand, H., Abdollahad, M.,*Positive .100
electrostatic therapy of metastatic tumors: selective induction of apoptosis in cancer cells by
pure charges*,*Cancer Medicine*,2021 11 1
- Moeinvaziri, F., Shojaei, A., Haghparast, N., (...), Hassani, S. ,& N., Baharvand, H.,*Towards .101
maturation of human otic hair cell-like cells in pluripotent stem cell-derived organoid
transplants*,*Cell and Tissue Research*,2021 11 1

Pahlavanneshan, S., Behmanesh, M., Tahamtani, Y., (...), Basiri, M., Baharvand, H., Induction of ss cell replication by small molecule-mediated menin inhibition and combined PKC activation and TGF-ss inhibition as revealed by a refined primary culture screening, *Cell Journal*, 2021 11 1

Gholami, S., Zarkesh, I., Ghanian, M., H., (...), Mohebi, M., M., Baharvand, H., Dynamically capped hierarchically porous microneedles enable post-fabrication loading and self-regulated transdermal delivery of insulin, *Chemical Engineering Journal*, 2021 10 1

Nikasa, P., Rabbani, B., Hejazi, M.S., (...), Totonchi, M., Mahdih, N., A case of autosomal recessive hypercholesterolemia with a novel mutation in the *ldlr* gene, *Clinical Pediatric Endocrinology*, 2021 10 1

Oryan, A., Eslaminejad, M.B., Kamali, A., (...), Moshiri, A., Baharvand, H., Retraction Note to: 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*, 2021 10 1

Akhlaghpour, A., Taei, A., Ghadami, S.A., (...), Baharvand, H., Hassani, S., & N., Chicken interspecies chimerism unveils human pluripotency, *Stem Cell Reports*, 2021 1 12

Mousavi, A., Vahdat, S., Baheiraei, N., (...), Norahan, M.H., Baharvand, H., Multifunctional conductive biomaterials as promising platforms for cardiac tissue engineering, *ACS Biomaterials Science and Engineering*, 2021 1 11

Esfandiari, F., Favaedi, R., Heidari, & Khoei, H., (...), Baharvand, H., Shahhoseini, M., Insight into epigenetics of human endometriosis organoids: DNA methylation analysis of HOX genes and their cofactors, *Fertility and Sterility*, 2021 1 1

Mohammadi, P., Nilforoushadeh, M.A., Youssef, K.K., (...), Baharvand, H., Aghdami, N., Defining microRNA signatures of hair follicular stem and progenitor cells in healthy and androgenic alopecia patients, *Journal of Dermatological Science*, 2021 1 1

Meyfour, A., Pahlavan, S., Mirzaei, M., (...), Baharvand, H., Salekdeh, G.H., The quest of cell surface markers for stem cell therapy, *Cellular and Molecular Life Sciences*, 2021 1 1

Karimi, P., Gheisari, A., Gasparini, S.J., (...), Satarian, L., Ader, M., Correction: Crocetin prevents RPE cells from oxidative stress through protection of cellular metabolic function and activation of erk1/2, *International Journal of Molecular Sciences*, 2021 1 1

Samani, F.S., Ebrahimi, M., Zandieh, T., (...), Aghdami, N., Baharvand, H., Erratum: In vitro differentiation of human umbilical cord blood CD133+ cells into insulin producing cells in co-culture with rat pancreatic mesenchymal stem cells, *Cell Journal*, 2021

Afshar, L., Aghayan, H., R., Sadighi, J., (...), Soleymani, Goloujeh, M., Baharvand, H., Ethics of research on stem cells and regenerative medicine: Ethical guidelines in the Islamic Republic of Iran, *Stem Cell Research and Therapy*, 2020 9 14

Mehryab, F., Rabbani, S., Shahhosseini, S., (...), Baharvand, H., Haeri, A., Exosomes as a next-generation drug delivery system: An update on drug loading approaches, characterization, and clinical application challenges, *Acta Biomaterialia*, 2020 9 1

Jamalzaei, P., Valojerdi, M.R., Montazeri, L., Baharvand, H., Applicability of hyaluronic acid-alginate hydrogel and ovarian cells for in vitro development of mouse preantral follicles, *Cell Journal*, 2020 9 1

Darakhshan, S., Bidmeshki Pour, A., Kowsari, & Esfahan, R., (...), Baharvand, H., Piryaeei, A., Generation of Scalable Hepatic Micro-Tissues as a Platform for Toxicological Studies, *Tissue Engineering and Regenerative Medicine*, 2020 8 1

Taei, A., Samadian, A., Ghezel, Ayagh, Z., (...), Hassani, S., N., Baharvand, H., Suppression of p38-MAPK endows endoderm propensity to human embryonic stem cells, *Biochemical and Biophysical Research Communications*, 2020 6 30

Heidari, & Khoei, H., Esfandiari, F., Hajari, M.A., (...), Piryaeei, A., Baharvand, H., Organoid technology in female reproductive biomedicine, *Reproductive Biology and Endocrinology*, 2020 6 18

Pahlavanneshan, S., Behmanesh, M., Oropeza, D., (...), Herrera, P.L., Baharvand, 119

H., Combined inhibition of menin-MLL interaction and TGF-beta signaling induces replication of human pancreatic beta cells, *European Journal of Cell Biology*, 2020 6 1

Hosseini, F., Soltani, B.M., Baharvand, H., Hosseinkhani, S., Hsa-miR-3658 down-regulates OCT4 gene expression followed by suppressing SW480 cell proliferation and migration, *Biochemical Journal*, 2020 6 1

Hosseini, F., Soltani, B.M., Baharvand, H., Hosseinkhani, S., Hsa-miR-3658 down-regulates OCT4 gene expression followed by suppressing SW480 cell proliferation and migration, *Biochemical Journal*, 2020 6 1

Medlej, A., Mohammad Soltani, B., Javad Mowla, S., Hosseini, S., Baharvand, H., A novel miRNA located in the GATA4 gene regulates the expression of IGF-1R and AKT1/2 genes and controls cell proliferation, *Journal of Cellular Biochemistry*, 2020 6 1

Seyedrazizadeh, S., & Z., Poosti, S., Nazari, A., (...), Satarian, L., Baharvand, H., Extracellular vesicles derived from human ES-MSCs protect retinal ganglion cells and preserve retinal function in a rodent model of optic nerve injury, *Stem Cell Research and Therapy*, 2020 5 27

Nazemi, Z., Nourbakhsh, M.S., Kiani, S., (...), Daemi, H., Baharvand, H., Co-delivery of minocycline and paclitaxel from injectable hydrogel for treatment of spinal cord injury, *Journal of Controlled Release*, 2020 5 10

Baei, P., Hosseini, M., Baharvand, H., Pahlavan, S., Electrically conductive materials for in vitro cardiac microtissue engineering, *Journal of Biomedical Materials Research - Part A*, 2020 5 1

Haddadi, M., H., Hajizadeh, Saffar, E., Khosravi, Maharlooei, M., (...), Negahdari, B., Baharvand, H., Autoimmunity as a target for chimeric immune receptor therapy: A new vision to therapeutic potential, *Blood Reviews*, 2020 5 1

Dokanehiifard, S., Soltani, B.M., Ghiasi, P., (...), Reza Ganjali, M., Hosseinkhani, S., hsa-miR-766-5p as a new regulator of mitochondrial apoptosis pathway for discriminating of cell death from cardiac differentiation, *Gene*, 2020 4 30

Pouya, A., Rassouli, H., Rezaei, & Larijani, M., Salekdeh, G.H., Baharvand, H., SOX2 protein transduction directly converts human fibroblasts into oligodendrocyte-like cells, *Biochemical and Biophysical Research Communications*, 2020 4 23

Karimi, P., Gheisari, A., Gasparini, S.J., (...), Satarian, L., Ader, M., Crocetin prevents rpe cells from oxidative stress through protection of cellular metabolic function and activation of ERK1/2, *International Journal of Molecular Sciences*, 2020 4 2

Firoozi, S., Pahlavan, S., Ghanian, M., & H., (...), Soleimani, M., Baharvand, H., Mesenchymal stem cell-derived extracellular vesicles alone or in conjunction with a SDKP-conjugated self-assembling peptide improve a rat model of myocardial infarction, *Biochemical and Biophysical Research Communications*, 2020 4 16

Taei, A., Rasooli, P., Braun, T., Hassani, S., & N., Baharvand, H., Signal regulators of human naive pluripotency, *Experimental Cell Research*, 2020 4 15

Parchehbafe, & Kashani, M., Sepantafar, M., Talkhabi, M., (...), Pahlavan, S., Rajabi, S., Design and characterization of an electroconductive scaffold for cardiomyocytes based biomedical assays, *Materials Science and Engineering C*, 2020 4 1

Kazemi Ashtiani, M., Zandi, M., Shokrollahi, P., Ehsani, M., Baharvand, H., Chitosan surface modified hydrogel as a therapeutic contact lens, *Polymers for Advanced Technologies*, 2020 4 1

Poursaeid, S., Kalbassi, M., R., Hassani, S., N., Baharvand, H., Isolation, characterization, in vitro expansion and transplantation of Caspian trout (*Salmo caspius*) type a spermatogonia, *General and Comparative Endocrinology*, 2020 4 1

Nazemi, Z., Nourbakhsh, M.S., Kiani, S., (...), Ashtiani, M.K., Baharvand, H., Effect of chemical composition and sulfated modification of alginate in the development of delivery systems based on electrostatic interactions for small molecule drugs, *Materials Letters*, 2020 3 15

Jamalzaei, P., Valojerdi, M.R., Montazeri, L., Baharvand, H., Effects of alginate concentration 136

and ovarian cells on in vitro development of mouse preantral follicles: A factorial .study,International Journal of Fertility and Sterility,,2020 3 1

Zarei , Kheirabadi, M., Vaccaro, A.R., Rahimi , Movaghar, V., Kiani, S., Baharvand, H.,An .137
overview of extrinsic and intrinsic mechanisms involved in astrocyte development in the central
.nervous system,Stem Cells and Development,2020 3 1

Heydari, Z., Najimi, M., Mirzaei, H., (...), Baharvand, H., Vosough, M.,Tissue engineering in .138
.liver regenerative medicine: Insights into novel translational technologies,Cells,2020 2 1

Zare , Gachi, M., Daemi, H., Mohammadi, J., (...), Hosseini , Salekdeh, S., Baharvand, .139
H.,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 2 1

Firoozi, S., Pahlavan, S., Ghanian, M. ,& H., (...), Soleymani, M., Baharvand, H.,A cell-free .140
SDKP-conjugated self-assembling peptide hydrogel sufficient for improvement of myocardial
.infarction,Biomolecules,2020 2 1

Alikhani, M., Karamzadeh, R., Rahimi, P., (...), Baharvand, H., Salekdeh, G.H.,Human .141
Proteome Project and Human Pluripotent Stem Cells: Odd Bedfellows or a Perfect
.Match?,Journal of Proteome Research,2020 12 4

Ramezankhani, R., Torabi, S., Minaei, N., (...), Baharvand, H., Hajizadeh ,& Saffar, E.,Two .142
Decades of Global Progress in Authorized Advanced Therapy Medicinal Products: An Emerging
.Revolution in Therapeutic Strategies,Frontiers in Cell and Developmental Biology,2020 12 17

Farzaneh, Z., Abbasalizadeh, S., Asghari , Vostikolaee, M. , H., (...), Cabral, J.M.S., .143
Baharvand, H.,Dissolved oxygen concentration regulates human hepatic organoid formation from
pluripotent stem cells in a fully controlled bioreactor,Biotechnology and Bioengineering,2020 12
.1

Montazeri, L., Sobat, M., Kowsari ,& Esfahan, R., (...), Baharvand, H., Pahlavan, S.,Vascular .144
endothelial growth factor sustained delivery augmented cell therapy outcomes of cardiac
progenitor cells for myocardial infarction,Journal of Tissue Engineering and Regenerative
.Medicine,2020 12 1

Alikhani, M., Amjadi, F., Mirzaei, M., (...), Aflatoonian, R., Salekdeh, G.H.,Proteome analysis .145
of endometrial tissue from patients with PCOS reveals proteins predicted to impact the
.disease,Molecular Biology Reports,2020 11 1

Pooyan, P., Karamzadeh, R., Mirzaei, M., (...), Javan, M., Salekdeh, G.H.,The dynamic .146
proteome of oligodendrocyte lineage differentiation features planar cell polarity and
.macroautophagy pathways,GigaScience,2020 11 1

Taei, A., Kiani, T., Taghizadeh, Z., (...), Hassani, S. ,& N., Baharvand, H.,Temporal activation .147
of LRH-1 and RAR-gamma in human pluripotent stem cells induces a functional na⁺-like state
Temporal activation of LRH-1 and RAR-gamma in human pluripotent stem cells induces a
.functional na⁺-like state,EMBO Reports,2020 10 5

Mehrdardi, N.Z., Molcanyi, M., Hatay, F.F., (...), Baharvand, H., Ari, T.,Acquisition of .148
chromosome 1q duplication in parental and genome-edited human-induced pluripotent stem cell-
derived neural stem cells results in their higher proliferation rate in vitro and in vivo,Cell
.Proliferation,2020 10 1

Shahriari, F., Satarian, L., Moradi, S., (...), Braun, T., Baharvand, H.,MicroRNA profiling reveals .149
important functions of miR-125b and let-7a during human retinal pigment epithelial cell
.differentiation,Experimental Eye Research,,2020 1 1

Shahriari, F., Satarian, L., Moradi, S., (...), Braun, T., Baharvand, H.,MicroRNA profiling reveals .150
important functions of miR-125b and let-7a during human retinal pigment epithelial cell
.differentiation,Experimental Eye Research,2020 1 1

Zarkesh, I., Halvaei, M., Ghanian, M.H., (...), Baharvand, H., Baghaban Eslaminejad, .151
M.,Scalable and cost-effective generation of osteogenic micro-tissues through the incorporation

.of inorganic microparticles within mesenchymal stem cell spheroids,Biofabrication,2020
Zarkesh, I., Halvaei, M., Ghanian, M.H., (...), Baharvand, H., Baghaban Eslaminejad, .152
M.,Scalable and cost-effective generation of osteogenic micro-tissues through the incorporation
.of inorganic microparticles within mesenchymal stem cell spheroids,Biofabrication,2020
Zarkesh, I., Halvaei, M., Ghanian, M.H., (...), Baharvand, H., Baghaban Eslaminejad, .153
M.,Scalable and cost-effective generation of osteogenic micro-tissues through the incorporation
.of inorganic microparticles within mesenchymal stem cell spheroids,Biofabrication,2020
Bajouri, A., Orouji, Z., Taghiabadi, E., (...), Shafieyan, S., Aghdami, N.,Long-term follow-up of .154
autologous fibroblast transplantation for facial contour deformities, a non-randomized phase IIa
.clinical trial,Cell Journal,2020
Felordi, M.S., Torabi, S., Shokoohian, B., (...), Baharvand, H., Vosough, M.,Novel cell-based .155
.therapies in hepatic disorders,Journal of Mazandaran University of Medical Sciences,2020
Sharifiaghdas, F., Zohrabi, F., Moghadasali, R., (...), Baharvand, H., Aghdami, N.,Autologous .156
Muscle-Derived Cell Injection For Treatment Of Female Stress Urinary Incontinence: A Single-Arm
.Clinical Trial With 24-Months Follow-Up,Urology Journal,2019 9 1
Khoshchehreh, R., Totonchi, M., Carlos Ramirez, J., (...), Ebrahimi, M., Heeschen, .157
C.,Epigenetic reprogramming of primary pancreatic cancer cells counteracts their in vivo
.tumorigenicity,Oncogene,2019 8 22
Kamali, A., Oryan, A., Hosseini, S., (...), Baghaban Eslaminejad, M., Baharvand, .158
H.,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 8 1
Radmanesh, F., Abandansari, H.S., Pahlavan, S., (...), Kazemi, B., Baharvand, H,Optimization .159
of miRNA delivery by using a polymeric conjugate based on deoxycholic acid-modified
.polyethylenimine,International Journal of Pharmaceutics,2019 6 30
Kay, M., Soltani, B.M., Aghdaei, F.H., Ansari, H., Baharvand, H.,Hsa-miR-335 regulates .160
.cardiac mesoderm and progenitor cell differentiation,Stem Cell Research and Therapy,2019 6 27
Mansoori, & Moghadam, Z., Totonchi, M., Hesarakhi, M., (...), Baharvand, H., Moghadasali, .161
R.,Programming of ES cells and reprogramming of fibroblasts into renal lineage-like
.cells,Experimental Cell Research,2019 6 15
Mardpour, S., Hamidieh, A.A., Taleahmad, S., (...), Taghikhani, A., Baharvand, H.,Interaction .162
between mesenchymal stromal cell-derived extracellular vesicles and immune cells by distinct
.protein content,Journal of Cellular Physiology,2019 6 1
Soltanian, A., Ghezelayagh, Z., Mazidi, Z., (...), Tahamtani, Y., Baharvand, H.,Generation of .163
functional human pancreatic organoids by transplants of embryonic stem cell derivatives in a
.3D-printed tissue trapper,Journal of Cellular Physiology,2019 6 1
Shabani, P., Ghazizadeh, Z., Gorgani, & Firuzjaee, S., (...), Aghdami, N., Baharvand, .164
H.,Cardioprotective effects of omega-3 fatty acids and ascorbic acid improve regenerative
.capacity of embryonic stem cell-derived cardiac lineage cells,BioFactors,,2019 6 1
Saber, S., Karamzadeh, R., Moghadam, P., (...), Aminpour, F., Vosough, M.,Research .165
performance in stem cell science and regenerative medicine in Iran: A national comprehensive
.observation,Archives of Iranian Medicine,2019 6 1
Rezaei Topraggaleh, T., Rezazadeh Valojerdi, M., Montazeri, L., Baharvand, H.,A testis- .166
derived macroporous 3D scaffold as a platform for the generation of mouse testicular
.organoids,Biomaterials Science,2019 4 1
Karamali, F., Esfahani, M. ,& H.N., Hajian, M., (...), Satarian, L., Baharvand, H.,Title: .167
Hepatocyte growth factor promotes the proliferation of human embryonic stem cell derived
.retinal pigment epithelial cells,Journal of Cellular Physiology,2019 4 1
Naserkhaki, R., Zamanzadeh, S., Baharvand, H., (...), Hajipour, M.J., Shahpasand, K.,cis .168
.pT231-Tau Drives Neurodegeneration in Bipolar Disorder,ACS Chemical Neuroscience,2019 3 20

Hassani, S. ,& N., Moradi, S., Taleahmad, S., Braun, T., Baharvand, H.,Transition of inner cell .169
mass to embryonic stem cells: mechanisms, facts, and hypotheses,Cellular and Molecular Life
.(Sciences,2019 3 15

Gholami, S., Mohebi, M. , M., Hajizadeh , Saffar, E., (...), Zarkesh, I., Baharvand, .170
H.,Fabrication of microporous inorganic microneedles by centrifugal casting method for
.transdermal extraction and delivery,International Journal of Pharmaceutics,2019 3 10

Saberi, S., Piryaee, A., Mirabzadeh, E., (...), Baharvand, H., Mohammadi, .171
M.,Immunohistochemical analysis of LGR5 and TROY expression in gastric carcinogenesis
.demonstrates an inverse trend,Iranian Biomedical Journal,2019 3 1

Varzideh, F., Pahlavan, S., Ansari, H., (...), Braun, T., Baharvand, H.,Human cardiomyocytes .172
undergo enhanced maturation in embryonic stem cell-derived organoid
.transplants,Biomaterials,2019 2 1

Meyfour, A., Pahlavan, S., Ansari, H., Baharvand, H., Salekdeh, G.H.,Down-Regulation of a .173
Male-Specific H3K4 Demethylase, KDM5D, Impairs Cardiomyocyte Differentiation,Journal of
.Proteome Research,2019 12 6

Taleahmad, S., Alikhani, M., Mollamohammadi, S., (...), Baharvand, H., Salekdeh, .174
G.H.,Inhibition of Human y Chromosome Gene, SRY, Promotes Naïve State of Human Pluripotent
.Stem Cells,Journal of Proteome Research,2019 12 6

Zarei ,& Kheirabadi, M., Hesaraki, M., Kiani, S., Baharvand, H.,In vivo conversion of rat .175
astrocytes into neuronal cells through neural stem cells in injured spinal cord with a single zinc-
.finger transcription factor,Stem Cell Research and Therapy,2019 12 16

Shiri, Z., Simorgh, S., Naderi, S., Baharvand, H.,Optogenetics in the Era of Cerebral .176
.Organoids,Trends in Biotechnology,2019 12 1

Vahdat, S., Pahlavan, S., Mahmoudi, E., (...), Aghdami, N., Baharvand, H.,Expansion of .177
Human Pluripotent Stem Cell-derived Early Cardiovascular Progenitor Cells by a Cocktail of
.Signaling Factors,Scientific Reports,2019 12 1

Moraveji, S. ,& F., Esfandiari, F., Taleahmad, S., (...), Shahverdi, A., Baharvand, .178
H.,Suppression of transforming growth factor-beta signaling enhances spermatogonial
proliferation and spermatogenesis recovery following chemotherapy,Human Reproduction,2019
.12 1

Ahmadi, A., Moghadasali, R., Ezzatizadeh, V., (...), Baharvand, H., Aghdami, .179
N.,Transplantation of Mouse Induced Pluripotent Stem Cell-Derived Podocytes in a Mouse Model
.of Membranous Nephropathy Attenuates Proteinuria,Scientific Reports,2019 12 1

Zare, L., Baharvand, H., Javan, M.,Trichostatin a promotes the conversion of astrocytes to .180
oligodendrocyte progenitors in a defined culture medium,Iranian Journal of Pharmaceutical
.Research,2019 12 1

Rassouli, H., Khalaj, M., Hassani, S. ,& N., (...), Salekdeh, G.H., Baharvand, H.,Gene .181
expression patterns of Royan human embryonic stem cells correlate with their propensity and
.culture systems,Cell Journal,2019 12 1

Mohammadshirazi, A., Sadrosadat, H., Jaber, R., (...), Baharvand, H., Kiani, S.,Combinational .182
therapy of lithium and human neural stem cells in rat spinal cord contusion model,Journal of
.Cellular Physiology,2019 11 1

Mardpour, S., Ghanian, M.H., Sadeghi ,& Abandansari, H., (...), Shekari, F., Baharvand, .183
H.,Hydrogel-Mediated Sustained Systemic Delivery of Mesenchymal Stem Cell-Derived
Extracellular Vesicles Improves Hepatic Regeneration in Chronic Liver Failure,ACS Applied
.Materials and Interfaces,2019 10 16

Zarei ,& Kheirabadi, M., Hesaraki, M., Shojaei, A., Kiani, S., Baharvand, H.,Generation of .184
neural stem cells from adult astrocytes by using a single reprogramming factor,Journal of
.Cellular Physiology,2019 10 1

Feizi, Z., Zahmatkesh, E., Farzaneh, Z., (...), Baharvand, H., Vosough, M.,Prenatal liver .185

stromal cells: Favorable feeder cells for long-term culture of hepatic progenitor cells, *Journal of Cellular Biochemistry*, 2019 10 1

Ehsani, E., Shekarchian, S., Baharvand, H., Aghdami, N., Moghadasali, R., Improved differentiation of human enriched CD133+CD24+ renal progenitor cells derived from embryonic stem cell with embryonic mouse kidney-derived mesenchymal stem cells co-culture, *Differentiation*, 2019 10 1

Fathi, A., Rasouli, H., Yeganeh, M., Salekdeh, G.H., Baharvand, H., Correction to: Efficient Differentiation of Human Embryonic Stem Cells Toward Dopaminergic Neurons Using Recombinant LMX1A Factor (*Molecular Biotechnology*, (2015), 57, 2, (184-194), .10.1007/s12033-014-9814-5), *Molecular Biotechnology*, 2019 1 15

Oryan, A., Baghaban Eslaminejad, M., Kamali, A., (...), Sayahpour, F.A., Baharvand, H., 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 1 1

Moraveji, S. ,& F., Esfandiari, F., Sharbatoghli, M., (...), Shahverdi, A., Baharvand, H., Optimizing methods for human testicular tissue cryopreservation and spermatogonial stem cell isolation, *Journal of Cellular Biochemistry*, 2019 1 1

EMADEDIN, M., KARIMI, S., KARIMI, A., (...), BAHARVAND, H., AGHDAMI, N., Autologous bone marrow-derived CD133 cells with core decompression as a novel treatment method for femoral head osteonecrosis: a pilot study, *Cytotherapy*, 2019 1 1

Golgooni, Z., Mirsadeghi, S., Baghshah, M.S., (...), Pahlavan, S., Rabiee, H.R., Deep learning-based proarrhythmia analysis using field potentials recorded from human pluripotent stem cells derived cardiomyocyte, *IEEE Journal of Translational Engineering in Health and Medicine*, 2019

Vahdat, S., Pahlavan, S., Aghdami, N., Bakhshandeh, B., Baharvand, H., Establishment of a protocol for in vitro culture of cardiogenic mesodermal cells derived from human embryonic stem cells, *Cell Journal*, 2019

Pourghadamyari, H., Rezaei, M., Ipakchi ,& Azimi, A., (...), Tahamtani, Y., Baharvand, H., Establishing a new animal model for muscle regeneration studies, *Molecular Biology Research Communications* 2019, 2019

Dezfouli, M.R.M., Chaleshtori, S.S., Moradmand, A., (...), Baharvand, H., Tahamtani, Y., Hydrocortisone promotes differentiation of mouse embryonic stem cell-derived definitive endoderm toward lung alveolar epithelial cells, *Cell Journal*, 2019

Behroozi, F., Abdkhodaie, M. ,& J., Abandansari, H.S., (...), Jaafari, M.R., Baharvand, H., Smart liposomal drug delivery for treatment of oxidative stress model in human embryonic stem cell-derived retinal pigment epithelial cells, *International Journal of Pharmaceutics*, 2018 9 5

Khanghahi, A.M., Satarian, L., Deng, W., Baharvand, H., Javan, M., In vivo conversion of astrocytes into oligodendrocyte lineage cells with transcription factor Sox10; Promise for myelin repair in multiple sclerosis, *PLoS ONE*, 2018 9 1

Fathi, A., Mirzaei, M., Dolatyar, B., (...), Baharvand, H., Salekdeh, G.H., Discovery of novel cell surface markers for purification of embryonic dopamine progenitors for transplantation in Parkinson's disease animal models, *Molecular and Cellular Proteomics*, 2018 9 1

Yekani, F., Azarnia, M., Esfandiari, F., Hassani, S. ,& N., Baharvand, H., Enhanced development of mouse single blastomeres into blastocysts via the simultaneous inhibition of TGF-beta and ERK pathways in microdroplet culture, *Journal of Cellular Biochemistry*, 2018 9 1

An, Y., Kawaguchi, A., Zhao, C., (...), Baharvand, H., Agata, K., Draft genome of *Dugesia japonica* provides insights into conserved regulatory elements of the brain restriction gene *nou-darake* in planarians, *Zoological Letter*, 2018 8 29

Behroozi, F., Abdkhodaie, M. , J., Abandansari, H.S., (...), Al , Jamal, K.T., Baharvand, H., Engineering folate-targeting diselenide-containing triblock copolymer as a redox-responsive

.shell-sheddable micelle for antitumor therapy in vivo,Acta Biomaterialia,,2018 8 1

Nami, F., Basiri, M., Satarian, L., (...), Baharvand, H., Verfaillie, C.,Strategies for In Vivo .201
.Genome Editing in Nondividing Cells,Trends in Biotechnology,,2018 8 1

Abbasi, F., Ghanian, M.H., Baharvand, H., Vahidi, B., Eslaminejad, M.B,Engineering .202
mesenchymal stem cell spheroids by incorporation of mechanoregulator microparticles,Journal
.of the Mechanical Behavior of Biomedical Materials,,2018 8 1

Farzaneh, M., Zare, M., Hassani, S. ,& N., Baharvand, H.,Effects of various culture conditions .203
on pluripotent stem cell derivation from chick embryos,Journal of Cellular Biochemistry,2018 8 1

Saberi, S., Pournasr, B., Farzaneh, Z., (...), Baharvand, H., Mohammadi, M,A simple and cost- .204
efficient adherent culture platform for human gastric primary cells, as an in vitro model for
.Helicobacter pylori infection,Helicobacter,2018 8 1

Abandansari, H.S., Ghanian, M.H., Varzideh, F., (...), Nabid, M.R., Baharvand, H.,In situ .205
formation of interpenetrating polymer network using sequential thermal and click crosslinking
.for enhanced retention of transplanted cells,Biomaterials,2018 7 1

Sepantafar, M., Mohammadi, H., Maheronnaghsh, R., Tayebi, L., Baharvand, H.,Single phased .206
silicate-containing calcium phosphate bioceramics: Promising biomaterials for periodontal
.repair,Ceramics International,2018 7 1

Khalilifar, M.A., Eslaminejad, M.B., Ghasemzadeh, M., Hosseini, S., Baharvand, H.,In vitro and .207
in vivo comparison of different types of rabbit mesenchymal stem cells for cartilage repair,Cell
.Journal,2018 7 1

Saheli, M., Sepantafar, M., Pournasr, B., (...), Piryaei, A., Baharvand, H.,Three-dimensional .208
liver-derived extracellular matrix hydrogel promotes liver organoids function,Journal of Cellular
.Biochemistry,2018 6 1

Saheli, M., Sepantafar, M., Pournasr, B., (...), Piryaei, A., Baharvand, H.,Three-dimensional .209
liver-derived extracellular matrix hydrogel promotes liver organoids function,Journal of Cellular
.Biochemistry,2018 6 1

Karamali, F., Esfahani, M. ,& H.N., Taleahmad, S., Satarian, L., Baharvand, H.,Stem cells from .210
apical papilla promote differentiation of human pluripotent stem cells towards retinal
.cells,Differentiation,2018 6 1

Yakhkeshi, S., Rahimi, S., Sharafi, M., (...), Shahverdi, A., Baharvand, H.,In vitro improvement .211
of quail primordial germ cell expansion through activation of TGF-beta signaling pathway,Journal
.of Cellular Biochemistry,2018 6 1

Yazdi, A., Khangahi, A.M., Baharvand, H., Javan, M.,Fingolimod enhances oligodendrocyte .212
differentiation of transplanted human induced pluripotent stem cell-derived neural
.progenitors,Yazdi, A., Khangahi, A.M., Baharvand, H., Javan, M.,2018 6 1

Ghanian, M.H., Mirzadeh, H., Baharvand, H.,In Situ Forming, Cytocompatible, and Self- .213
Recoverable Tough Hydrogels Based on Dual Ionic and Click Cross-Linked
.Alginate,Biomacromolecules,2018 5 14

Namazi, H., Mohit, E., Namazi, I., (...), Aghdami, N., Baharvand, H.,Exosomes secreted by .214
hypoxic cardiosphere-derived cells enhance tube formation and increase pro-angiogenic
.miRNA,Journal of Cellular Biochemistry,2018 5 1

Makhlough, A., Shekarchian, S., Moghadasali, R., (...), Baharvand, H., Aghdami, N.,Bone .215
marrow-mesenchymal stromal cell infusion in patients with chronic kidney disease: A safety
.study with 18 months of follow-up,Cytotherapy,2018 5 1

Aboulkheyr Es, H., Montazeri, L., Aref, A.R., Vosough, M., Baharvand, H.,Personalized Cancer .216
.Medicine: An Organoid Approach,Trends in Biotechnology,2018 4 1

Shadmanfar, S., Labibzadeh, N., Emadedin, M., (...), Gharibdoost, F., Aghdami, N.,Intra- .217
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 4 1

Kazemi Ashtiani, M., Zandi, M., Shokrollahi, P., Ehsani, M., Baharvand, H., Surface modification of poly(2-hydroxyethyl methacrylate) hydrogel for contact lens application, *Polymers for Advanced Technologies*, 2018 4 1

Namiri, M., Kazemi Ashtiani, M., Abbasalizadeh, S., (...), Aghdami, N., Baharvand, H., Improving the biological function of decellularized heart valves through integration of protein tethering and three-dimensional cell seeding in a bioreactor, *Journal of Tissue Engineering and Regenerative Medicine*, 2018 4 1

Ghazizadeh, Z., Fattahi, F., Mirzaei, M., (...), Lee, B., Salekdeh, G.H., Prospective Isolation of ISL1+ Cardiac Progenitors from Human ESCs for Myocardial Infarction Therapy, *Stem Cell Reports*, 2018 3 13

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, *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 3 1

Pahlavan, S., Tousi, M.S., Ayyari, M., (...), Saric, T., Baharvand, H., Effects of hawthorn (*Crataegus pentagyna*) leaf extract on electrophysiologic properties of cardiomyocytes derived from human cardiac arrhythmia-specific induced pluripotent stem cells, *FASEB Journal*, 2018 3 1

Karimzadeh, S., Hosseinkhani, S., Fathi, A., Ataei, F., Baharvand, H., 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 3 1

Mardpour, S., Hassani, S., & N., Mardpour, S., (...), Hamidieh, A.A., Baharvand, H., Extracellular vesicles derived from human embryonic stem cell-MSCs ameliorate cirrhosis in thioacetamide-induced chronic liver injury, *Journal of Cellular Physiology*, 2018 12 1

Yekani, F., Fazel, Tabar, M., Kowsari, Esfahan, R., (...), Montazeri, L., Baharvand, H., Enhancing developmental rate and quality of mouse single blastomeres into blastocysts using a microplatform, *Journal of Cellular Physiology*, 2018 12 1

Jafari, N., Giehr, P., Hesarakhi, M., (...), Baharvand, H., Totonchi, M., Genomic integrity of ground-state pluripotency, *Journal of Cellular Biochemistry*, 2018 12 1

Shekari, F., Han, C., L., Lee, J., (...), Chen, Y., J., Hosseini Salekdeh, G., Surface markers of human embryonic stem cells: a meta analysis of membrane proteomics reports, *Expert Review of Proteomic*, 2018 11 2

Izadi, Z., Hajizadeh, Saffar, E., Hadjati, J., (...), Akbari, Javar, H., Baharvand, H., Tolerance induction by surface immobilization of Jagged-1 for immunoprotection of pancreatic islets, *Biomaterials* 2018-11-1, 2018 11 1

EMADEDIN, M., LABIBZADEH, N., LIASTANI, M.G., (...), BAHARVAND, H., AGHDAMI, N., Title: 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 10 1

Oryan, A., Baghaban Eslaminejad, M., Kamali, A., (...), Moshiri, A., Baharvand, H., 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 10 1

Zare, L., Baharvand, H., Javan, M., In vivo conversion of astrocytes to oligodendrocyte lineage cells using chemicals: Targeting gliosis for myelin repair, *Regenerative Medicine*, 2018 10 1

Ghasemi, & Kasman, M., Shojaei, A., Gol, M., (...), Baharvand, H., Javan, M., miR-302/367-induced neurons reduce behavioral impairment in an experimental model of Alzheimer's disease, *Molecular and Cellular Neuroscience*, 2018 1 1

Ghasemi, & Kasman, M., Zare, L., Baharvand, H., Javan, M., 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

- Rajabi, S., Jalili, & Firoozinezhad, S., Ashtiani, M.K., (...), Tajbakhsh, S., Baharvand, H., Effect .234 of chemical immobilization of SDF-1 α into muscle-derived scaffolds on angiogenesis and muscle progenitor recruitment, *Journal of Tissue Engineering and Regenerative Medicine*, 2018
- Ireland, H., Gay, M.H.P., Baldomero, H., (...), Passweg, J., Martin, I., The survey on cellular .235 and tissue-engineered therapies in Europe and neighboring Eurasian countries in 2014 and .2015, *Cytotherapy*, 2018
- Ghiasi, P., Hosseinkhani, S., Ansari, H., (...), Pahlavan, S., Baharvand, H., Reversible .236 permeabilization of the mitochondrial membrane promotes human cardiomyocyte differentiation from embryonic stem cells, *Journal of Cellular Physiology*, 2018
- Ghiasi, P., Hosseinkhani, S., Ansari, H., (...), Pahlavan, S., Baharvand, H., Reversible .237 permeabilization of the mitochondrial membrane promotes human cardiomyocyte differentiation from embryonic stem cells, *Journal of Cellular Physiology*, 2018
- Habibzadeh, M., Jannesari, M., Rezaei, Z., Baharvand, H., Totonchi, M., Automatic white .238 blood cell classification using pre-trained deep learning models: ResNet and Inception, *Proceedings of SPIE - The International Society for Optical Engineering*, 2018
- Saberzadeh, & Ardestani, B., Karamzadeh, R., Basiri, M., (...), Tahamtani, Y., Baharvand, .239 H., Type 1 diabetes mellitus: Cellular and molecular pathophysiology at a glance, *Cell Journal*, 2018
- Naseri, M.H., Madani, H., Tafti, S.H.A., (...), Baharvand, H., Aghdami, N., COMPARE CPM-RMI .240 Trial: Intramyocardial transplantation of autologous bone marrow-derived CD133+ Cells and MNCs during CABG in patients with recent MI: A Phase II/III, multicenter, placebo-controlled, randomized, double-blind clinical trial, *Cell Journal*, 2018
- Moradi, S., Braun, T., Baharvand, H., miR-302b-3p Promotes Self-Renewal Properties in .241 Leukemia Inhibitory Factor-Withdrawn Embryonic Stem Cells, *Cell Journal*, 2018
- Moradi, S., Braun, T., Baharvand, H., miR-302b-3p Promotes Self-Renewal Properties in .242 Leukemia Inhibitory Factor-Withdrawn Embryonic Stem Cells, *Cell Journal*, 2018
- Tafti, Z.A., Mahmoodi, M., Hajizadeh, M.R., (...), Vosough, M., Piryaee, A., Conditioned media .243 derived from human adipose tissue mesenchymal stromal cells improves primary hepatocyte maintenance, *Cell Journal*, 2018
- Taleahmad, S., Hassani, S.N., Salekdeh, G.H., Baharvand, H., Metabolic signature of .244 pluripotent stem cells, *Cell Journal*, 2018
- Abbasi, J., Mokhber Dezfouli, M.R., Sadeghian Chaleshtori, S., (...), Ghanei, M., Jabari Fakhr, .245 M., Improvement of clinical signs in experimental model of Acute Respiratory Distress Syndrome (ARDS) in sheep following autograft of bone marrow-derived mesenchymal stem cells (BM-MSCs), *Journal of Veterinary Research*, 2018
- Sharifi, Zarchi, A., Gerovska, D., Adachi, K., (...), Baharvand, H., Arauzo, Bravo, M.J., DNA .246 methylation regulates discrimination of enhancers from promoters through a H3K4me1-H3K4me3 seesaw mechanism, *BMC Genomics*, 2018
- Moradi, S., Sharifi, & Zarchi, A., Ahmadi, A., (...), Braun, T., Baharvand, H., Small RNA .247 Sequencing Reveals Dlk1-Dio3 Locus-Embedded MicroRNAs as Major Drivers of Ground-State Pluripotency, *Stem Cell Reports*, 2018
- Abbasi, J., Mokhber Dezfouli, M.R., Sadeghian Chaleshtori, S., (...), Ghanei, M., Jabari Fakhr, .248 M., Improvement of clinical signs in experimental model of Acute Respiratory Distress Syndrome (ARDS) in sheep following autograft of bone marrow-derived mesenchymal stem cells (BM-MSCs), *Journal of Veterinary Research*, 2018
- Meyfour, A., Ansari, H., Pahlavan, S., (...), Baharvand, H., Salekdeh, G.H., Y Chromosome .249 Missing Protein, TBL1Y, May Play an Important Role in Cardiac Differentiation, *Journal of Proteome Research*, 2017
- Sharifi, Zarchi, A., Gerovska, D., Adachi, K., (...), Baharvand, H., Arauzo, Bravo, M.J., DNA .250 methylation regulates discrimination of enhancers from promoters through a H3K4me1-

.H3K4me3 seesaw mechanism,BMC Genomics,2017

Moradi, S., Sharifi ,& Zarchi, A., Ahmadi, A., (...), Braun, T., Baharvand, H.,Small RNA .251
Sequencing Reveals Dlk1-Dio3 Locus-Embedded MicroRNAs as Major Drivers of Ground-State
.Pluripotency,Stem Cell Reports,2017

Meyfour, A., Ansari, H., Pahlavan, S., (...), Baharvand, H., Salekdeh, G.H.,Y Chromosome .252
Missing Protein, TBL1Y, May Play an Important Role in Cardiac Differentiation,Journal of
.Proteome Research,2017

Kashfi, S., Ghaedi, K., Baharvand, H., Nasr ,& Esfahani, M.H., Javan, M.,A1 Adenosine .253
Receptor Activation Modulates Central Nervous System Development and Repair,Molecular
.Neurobiology,2017

Meyfour, A., Pooyan, P., Pahlavan, S., (...), Baharvand, H., Salekdeh, G.H.,Chromosome- .254
Centric Human Proteome Project Allies with Developmental Biology: A Case Study of the Role of
.y Chromosome Genes in Organ Development,Journal of Proteome Research,2017

Ghasemi ,& Kasman, M., Baharvand, H., Javan, M.,Enhanced neurogenesis in degenerated .255
hippocampi following pretreatment with miR-302/367 expressing lentiviral vector in
.mice,Biomedicine and Pharmacotherapy,2017

Ghafari, A.M., Rajabi ,& Zeleti, S., Naji, M., Ghanian, M.H., Baharvand, H.,Mechanical .256
reinforcement of urinary bladder matrix by electrospun polycaprolactone nanofibers,Scientia
.Iranica,2017

Sepantafar, M., Maheronnaghsh, R., Mohammadi, H., (...), Ebrahimi, M., Baharvand, .257
.H.,Engineered Hydrogels in Cancer Therapy and Diagnosis,Trends in Biotechnology,2017

Totonchi, M., Hassani, S. , N., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H.,Blockage .258
of the Epithelial-to-Mesenchymal Transition Is Required for Embryonic Stem Cell Derivation,Stem
.Cell Reports,2017

Abbasalizadeh, S., Pakzad, M., Cabral, J.M.S., Baharvand, H.,Allogeneic cell therapy .259
manufacturing: process development technologies and facility design options,Expert Opinion on
.Biological Therapy,2017

Safaeinejad, Z., Nabiuni, M., Peymani, M., (...), Nasr ,& Esfahani, M.H., Baharvand, .260
H,Resveratrol promotes human embryonic stem cells self-renewal by targeting SIRT1-ERK
.signaling pathway,European Journal of Cell Biology,2017

Mirsadeghi, S., Shahbazi, E., Hemmesi, K., (...), Mirnajafi ,& Zadeh, J., Kiani, S.,Development .261
of membrane ion channels during neural differentiation from human embryonic stem
.cells,Biochemical and Biophysical Research Communications,2017

Zarkesh, I., Ghanian, M.H., Azami, M., (...), Mohammadi, J., Eslaminejad, M.B.,Facile .262
synthesis of biphasic calcium phosphate microspheres with engineered surface topography for
.controlled delivery of drugs and proteins,Colloids and Surfaces B: Biointerfaces,2017

Shekari, F., Nezari, H., Chen, Y. ,& J., Baharvand, H., Hosseini Salekdeh, G.,Data for whole .263
.and mitochondrial proteome of human embryonic stem cells,Data in Brief,2017

Shekari, F., Nezari, H., Larijani, M.R., (...), Chen, Y. & J., Salekdeh, G.H.,Proteome analysis of .264
.human embryonic stem cells organelles,Journal of Proteomics,2017

Malakootian, M., Mirzadeh Azad, F., Naeli, P., (...), Baharvand, H., Mowla, S.J.,Novel spliced .265
variants of OCT4, OCT4C and OCT4C1, with distinct expression patterns and functions in
.pluripotent and tumor cell lines,European Journal of Cell Biology,2017

Makhlough, A., Shekarchian, S., Moghadasali, R., (...), Baharvand, H., Aghdami, N.,Safety and .266
tolerability of autologous bone marrow mesenchymal stromal cells in ADPKD patients,Stem Cell
.Research and Therapy,2017

Farzaneh, M., Hassani, S. ,& N., Mozdziak, P., Baharvand, H.,Avian embryos and related cell .267
lines: A convenient platform for recombinant proteins and vaccine production,Biotechnology
.Journal,2017

Namiri, M., Ashtiani, M.K., Mashinchian, O., (...), Aghdami, N., Baharvand, H.,Engineering .268

natural heart valves: possibilities and challenges, *Journal of Tissue Engineering and Regenerative Medicine*, 11(5):1675-1683,2017

Satarian, L., Nourinia, R., Safi, S., (...), Ahmadi, H., Baharvand, H., Intravitreal injection of .269
bone marrow mesenchymal stem cells in patients with advanced retinitis pigmentosa; A safety
.study, *Journal of Ophthalmic and Vision Research*, 2017

Esfandiari, F., Ashtiani, M.K., Sharifi, & Tabar, M., (...), Shahverdi, A., Baharvand, .270
H., Microparticle-Mediated Delivery of BMP4 for Generation of Meiosis-Competent Germ Cells
.from Embryonic Stem Cells, *Macromolecular Bioscience*, 2017

Jalili, & Firoozinezhad, S., Mohamadzadeh Moghadam, M.H., Ghanian, M.H., (...), Martin, I., .271
Scherberich,., Polycaprolactone-templated reduced-graphene oxide liquid crystal nanofibers
.towards biomedical applications, *RSC Advances*, 2017

Kashfi, S., Peymani, M., Ghaedi, K., (...), Esfahani, M.H.N., Javan, M., Purinergic receptor .272
expression and potential association with human embryonic stem cell-derived oligodendrocyte
.progenitor cell development, *Cell Journal*, 2017

Lotfinia, M., Kadivar, M., Piryaee, A., (...), Sayahpour, F., & A., Baharvand, H., Effect of .273
Secreted Molecules of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells on Acute
.Hepatic Failure Model, *Stem Cells and Development*, 2016

KalantarMotamedi, Y., Peymani, M., Baharvand, H., Nasr, & Esfahani, M.H., Bender, .274
A., Systematic selection of small molecules to promote differentiation of embryonic stem cells
.and experimental validation for generating cardiomyocytes, *Cell Death Discovery*, 2016

Mohammadi, P., Youssef, K.K., Abbasalizadeh, S., Baharvand, H., Aghdami, N., Human Hair .275
.Reconstruction: Close, But Yet So Far, *Stem Cells and Development*, 2016

Ashtiani, M.K., Zandi, M., Barzin, J., (...), Larijani, M.R., Baharvand, H., Substrate-mediated .276
commitment of human embryonic stem cells for hepatic differentiation, *Journal of Biomedical
.Materials Research - Part A*, 2016

Jodeiri Farshbaf, M., Forouzanfar, M., Ghaedi, K., (...), Baharvand, H., Nasr, & Esfahani, .277
M.H., Title: Nurr1 and PPARgamma protect PC12 cells against MPP+ toxicity: involvement of
selective genes, anti-inflammatory, ROS generation, and antimitochondrial impairment, *Molecular
.and Cellular Biochemistry*, 2016

Fonoudi, H., Ansari, H., Abbasalizadeh, S., (...), Bosman, A., Baharvand, H., Large-scale .278
production of cardiomyocytes from human pluripotent stem cells using a highly reproducible
.small molecule-based differentiation protocol, *Journal of Visualized Experiments*, 2016

Sepantafar, M., Maheronnaghsh, R., Mohammadi, H., (...), Aghdami, N., Baharvand, H., Stem .279
cells and injectable hydrogels: Synergistic therapeutics in myocardial repair, *Biotechnology
.Advances*, 2016

Azizi, H., Conrad, S., Hinz, U., (...), Baharvand, H., Skutella, T., Derivation of Pluripotent Cells .280
.from Mouse SSCs Seems to Be Age Dependent, *Stem Cells International*, 2016

Sharifiaghdas, F., Tajalli, F., Taheri, M., (...), Azimian, V., Jaroughi, N., Effect of autologous .281
muscle-derived cells in the treatment of urinary incontinence in female patients with intrinsic
.sphincter deficiency and epispadias: A prospective study, *International Journal of Urology*, 2016

Baei, P., Jalili, Firoozinezhad, S., Rajabi, Zeleti, S., (...), Baharvand, H., Aghdami, .282
N., Electrically conductive gold nanoparticle-chitosan thermosensitive hydrogels for cardiac tissue
.engineering, *Materials Science and Engineering C*, 2016

Molavi, B., Zafarghandi, M.R., Aminizadeh, E., (...), Baharvand, H., Aghdami, N., Safety and .283
efficacy of repeated bone marrow mononuclear cell therapy in patients with critical limb
.ischemia in a pilot randomized controlled trial, *Archives of Iranian Medicine*, 2016

Yahoo, N., Pournasr, B., Rostamzadeh, J., (...), Fathi, F., Baharvand, H., Forced expression of .284
Hnf1b/Foxa3 promotes hepatic fate of embryonic stem cells, *Biochemical and Biophysical
.Research Communications*, 2016

Zakikhan, K., Pournasr, B., Nassiri, & Asl, M., Baharvand, H., Enhanced direct conversion of .285

fibroblasts into hepatocyte-like cells by Kdm2b, *Biochemical and Biophysical Research Communications*, 2016

Shahbazi, E., Moradi, S., Nemati, S., (...), Saric, T., Baharvand, H., Conversion of Human .286
Fibroblasts to Stably Self-Renewing Neural Stem Cells with a Single Zinc-Finger Transcription
Factor, *Stem Cell Reports*, 2016

Jalili, Firoozinezhad, S., Rajabi, Zeleti, S., Marsano, A., Aghdami, N., Baharvand, H., Influence .287
of decellularized pericardium matrix on the behavior of cardiac progenitors, *Journal of Applied
Polymer Science*, 2016

Daemi, H., Rajabi, & Zeleti, S., Sardon, H., (...), Khademhosseini, A., Baharvand, H., A robust .288
super-tough biodegradable elastomer engineered by supramolecular ionic
interactions, *Biomaterials*, 2016

Hashemi, M., S., Esfahani, A.K., Peymani, M., (...), Nasr, Esfahani, M.H., Baharvand, H., Zinc .289
finger protein 521 overexpression increased transcript levels of Fndc5 in mouse embryonic stem
cells, *Journal of Biosciences*, 2016

Mirzaei, H., Sahebkar, A., Avan, A., (...), Pawelek, J.M., Mirzaei, H.R., Application of .290
mesenchymal stem cells in melanoma: A potential therapeutic strategy for delivery of targeted
agents, *Current Medicinal Chemistry*, 2016

Vosough, M., Moossavi, S., Mardpour, S., (...), Mohamadnejad, M., Baharvand, H., Repeated .291
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

Talkhabi, M., Aghdami, N., Baharvand, H., Human cardiomyocyte generation from pluripotent .292
stem cells: A state-of-art, *Life Sciences*, 2016

Pourgholaminejad, A., Aghdami, N., Baharvand, H., Moazzeni, S.M., The effect of pro- .293
inflammatory cytokines on immunophenotype, differentiation capacity and immunomodulatory
functions of human mesenchymal stem cells, *Cytokine*, 2016

Montazeri, L., Hojjati, & Emami, S., Bonakdar, S., (...), Ashtiani, M.K., Baharvand, .294
H., Improvement of islet engrafts by enhanced angiogenesis and microparticle-mediated
oxygenation, *Biomaterials*, 2016

Sajadian, S.O., Tripura, C., Samani, F.S., (...), Baharvand, H., Nussler, A.K., Vitamin C .295
enhances epigenetic modifications induced by 5-azacytidine and cell cycle arrest in the
hepatocellular carcinoma cell lines HLE and Huh7, *Clinical Epigenetics*, 2016

Mohamadnejad, M., Vosough, M., Moossavi, S., (...), Malekzadeh, R., Baharvand, .296
H., 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

Montazeri, L., Bonakdar, S., Taghipour, M., Renaud, P., Baharvand, H., Modification of PDMS .297
to fabricate PLGA microparticles by a double emulsion method in a single microfluidic
device, *Lab on a Chip*, 2016

Basiri, M., Behmanesh, M., Tahamtani, Y., (...), Moradmand, A., Baharvand, H., The .298
convenience of single homology arm donor DNA and CRISPR/Cas9-nickase for targeted insertion
of long DNA fragment, *Cell Journal*, 2016

Nemati, S., Abbasalizadeh, S., Baharvand, H., Scalable expansion of human pluripotent stem .299
cell-derived neural progenitors in stirred suspension bioreactor under xeno-free
condition, *Methods in Molecular Biology*, 2016

Favaedi, R., Shahhoseini, M., Pakzad, M., Mollamohammadi, S., Baharvand, H., Comparative .300
epigenetic evaluation of human embryonic stem and induced pluripotent cells, *International
Journal of Developmental Biology*, 2016

Karbalaie, K., Vallian, S., Lachinani, L., (...), Baharvand, H., Nasr, & Esfahani, M.H., Analysis of .301
promyelocytic leukemia in human embryonic carcinoma stem cells during retinoic acid-induced
neural differentiation, *Iranian Journal of Biotechnology*, 2016

Dormiani, K., Sadeghi, H.M.M., Sadeghi, Aliabadi, H., (...), Ghaedi, K., Nasr, Esfahani, M.H., Rational development of a polycistronic plasmid with a CpG-free bacterial backbone as a potential tool for direct reprogramming, *Cell Journal*, 2016 .302

Ghanian, M.H., Farzaneh, Z., Barzin, J., (...), Ehsani, M., Baharvand, H., Nanotopographical control of human embryonic stem cell differentiation into definitive endoderm, *Journal of Biomedical Materials Research - Part A*, 2015 11 1 .303

Taleahmad, S., Mirzaei, M., Parker, L.M., (...), Baharvand, H., Salekdeh, G.H., Proteome Analysis of Ground State Pluripotency, *Scientific Reports*, 2015 .304

Taheri, M., Salamian, A., Ghaedi, K., (...), Baharvand, H., Nasr, & Esfahani, M.H., A ground state of PPAR γ activity and expression is required for appropriate neural differentiation of hESCs, *Pharmacological Reports*, 2015 .305

Fonoudi, H., Ansari, H., Abbasalizadeh, S., (...), Aghdami, N., Baharvand, H., A universal and robust integrated platform for the scalable production of human cardiomyocytes from pluripotent stem cells, *Stem Cells Translational Medicine*, 2015 .306

Moghadasali, R., Hajinasrollah, M., Argani, H., (...), Baharvand, H., Aghdami, N., Autologous transplantation of mesenchymal stromal cells tends to prevent progress of interstitial fibrosis in a rhesus *Macaca mulatta* monkey model of chronic kidney disease, *Cytotherapy*, 2015 .307

Kajabadi, N., S., Ghoochani, A., Peymani, M., (...), Nasr, Esfahani, M.H., Baharvand, H., The synergistic enhancement of cloning efficiency in individualized human pluripotent stem cells by peroxisome proliferative-activated receptor-gamma (PPAR γ) activation and Rho-associated kinase (ROCK) inhibition, *Journal of Biological Chemistry*, 2015 .308

Baheiraei, N., Yeganeh, H., Ai, J., (...), Vahdat, S., Baharvand, H., 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 .309

Sajadian, S.O., Ehnert, S., Vakilian, H., (...), Sipos, B., Nussler, A.K., Induction of active demethylation and 5hmC formation by 5-azacytidine is TET2 dependent and suggests new treatment strategies against hepatocellular carcinoma, *Clinical Epigenetics*, 2015 .310

Vakilian, H., Mirzaei, M., Sharifi Tabar, M., (...), Baharvand, H., Salekdeh, G.H., DDX3Y, a male-specific region of y chromosome gene, may modulate neuronal differentiation, *Journal of Proteome Research*, 2015 .311

Jangravi, Z., Tabar, M.S., Mirzaei, M., (...), Baharvand, H., Salekdeh, G.H., 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 .312

Rastegar, D.A., Tabar, M.S., Alikhani, M., (...), Baharvand, H., Salekdeh, G.H., 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 .313

Tabar, M.S., Hesaraki, M., Esfandiari, F., (...), Vakilian, H., Baharvand, H., Evaluating electroporation and lipofectamine approaches for transient and stable transgene expressions in human fibroblasts and embryonic stem cells, *Cell Journal*, 2015 .314

Karbalaie, K., Vallian, S., Salamian, A., Baharvand, H., Nasr, & Esfahani, M.H., Promyelocytic leukemia (PML) involves cellular pluripotency and neural development, *Genetics in the Third Millennium*, 2015 .315

Mirakhori, F., Zeynali, B., Rassouli, H., (...), Salekdeh, G.H., Baharvand, H., Induction of neural progenitor-like cells from human fibroblasts via a genetic material-free approach, *PLoS ONE*, 2015 .316

Dormiani, K., Mir Mohammad Sadeghi, H., Sadeghi, Aliabadi, H., (...), Baharvand, H., Nasr, Esfahani, M.H., Long-term and efficient expression of human beta-globin gene in a hematopoietic cell line using a new site-specific integrating non-viral system, *Gene Therapy*, 2015 .317

Talkhabi, M., Pahlavan, S., Aghdami, N., Baharvand, H., Ascorbic acid promotes the direct .318

conversion of mouse fibroblasts into beating cardiomyocytes, *Biochemical and Biophysical Research Communications*, 2015

Khezri, S., Javan, M., Goudarzvand, M., Semnani, S., Baharvand, H., Dibutyryl cyclic AMP .319 inhibits the progression of experimental autoimmune encephalomyelitis and potentiates recruitment of endogenous neural stem cells, *Journal of Molecular Neuroscience*, 2015

Vahdat, S., Mousavi, S.A., Omrani, G., (...), Salekdeh, G.H., Aghdami, N., Cellular and .320 molecular characterization of human cardiac stem cells reveals key features essential for their function and safety, *Stem Cells and Development*, 2015

Ghasemi, & Kasman, M., Hajikaram, M., Baharvand, H., Javan, M., MicroRNA-mediated in .321 vitro and in vivo direct conversion of astrocytes to neuroblasts, *PLoS ONE*, 2015

Ghazvini Zadegan, F., Ghaedi, K., Kalantar, S.M., (...), Baharvand, H., Nasr, & Esfahani, .322 M.H., Cardiac differentiation of mouse embryonic stem cells is influenced by a PPAR gamma/PGC-1alpha-FNDC5 pathway during the stage of cardiac precursor cell formation, *European Journal of Cell Biology*, 2015

Samani, F.S., Ebrahimi, M., Zandieh, T., (...), Aghdami, N., Baharvand, H., In vitro .323 differentiation of human umbilical cord blood CD133+ cells into insulin producing cells in co-culture with rat pancreatic mesenchymal stem cells, *Cell Journal*, 2015

Samani, F.S., Ebrahimi, M., Zandieh, T., (...), Aghdami, N., Baharvand, H., In vitro .324 differentiation of human umbilical cord blood CD133+ cells into insulin producing cells in co-culture with rat pancreatic mesenchymal stem cells, *Cell Journal*, 2015

Mohammadi, A., Attari, F., Babapour, V., (...), Shahverdi, A., Baharvand, H., Generation of rat .325 embryonic germ cells via inhibition of TGFbeta and MEK pathways, *Cell Journal*, 2015

Shabani, P., Ghazizadeh, Z., Pahlavan, S., (...), Aghdami, N., Doosti, M., Exogenous treatment .326 with eicosapentaenoic acid supports maturation of cardiomyocytes derived from embryonic stem cells, *Biochemical and Biophysical Research Communications*, 2015

Forouzanfar, M., Rabiee, F., Ghaedi, K., (...), Baharvand, H., Nasr, & Esfahani, M.H., Fndc5 .327 overexpression facilitated neural differentiation of mouse embryonic stem cells, *Cell Biology International*, 2015

Mirakhori, F., Zeynali, B., Rassouli, H., Hosseini Salekdeh, G., Baharvand, H., Direct .328 conversion of human fibroblasts into dopaminergic neural progenitor-like cells using TAT-mediated protein transduction of recombinant factors, *Biochemical and Biophysical Research Communications*, 2015

Hajizadeh, & Saffar, E., Tahamtani, Y., Aghdami, N., (...), Shokrgozar, M.A., Baharvand, .329 H., Inducible VEGF Expression by Human Embryonic Stem Cell-Derived Mesenchymal Stromal Cells Reduces the Minimal Islet Mass Required to Reverse Diabetes, *Scientific Reports*, 2015

Mirakhori, F., Zeynali, B., Kiani, S., Baharvand, H., Brief azacytidine step allows the .330 conversion of suspension human fibroblasts into neural progenitor-like cells, *Cell Journal*, 2015

Karbalaie, K., Tanhaei, S., Rabiei, F., (...), Nasr, & Esfahani, M.H., Baharvand, H., Stem cells .331 from human exfoliated deciduous tooth exhibit stromal-derived inducing activity and lead to generation of neural crest cells from human embryonic stem cells, *Cell Journal*, 2015

Ahmadi Ghahrizjani, F., Ghaedi, K., Salamian, A., (...), Baharvand, H., Nasr, & Esfahani, .332 M.H., Enhanced expression of FNDC5 in human embryonic stem cell-derived neural cells along with relevant embryonic neural tissues, *Gene*, 2015

.Baharvand, H., Aghdami, N., Stem Cell Nanoengineering, *Stem Cell Nanoengineering*, 2015 .333

Jalili, & Firoozinezhad, S., Mirakhori, F., Baharvand, H., Nanotissue Engineering of Neural .334 Cells, *Stem Cell Nanoengineering*, 2015

.Baharvand, H., Aghdami, N., Preface, *Stem Cell Nanoengineering*, 2015 .335

Fathi, A., Rasouli, H., Yeganeh, M., Salekdeh, G.H., Baharvand, H., Efficient Differentiation of .336 Human Embryonic Stem Cells Toward Dopaminergic Neurons Using Recombinant LMX1A Factor, *Molecular Biotechnology*, 2015

- Yazdi, A., Baharvand, H., Javan, M., Enhanced remyelination following lysolecithin-induced .337
 .demyelination in mice under treatment with fingolimod (FTY720), *Neuroscience*, 2015
- Jalili , Firoozinezhad, S., Rajabi , Zeleti, S., Mohammadi, P., (...), Baharvand, H., Martin, .338
 I., Facile Fabrication of Egg White Macroporous Sponges for Tissue Regeneration, *Advanced
 .Healthcare Materials*, 2015
- Hosseini Farahabadi, S.S., Ghaedi, K., Ghazvini Zadegan, F., (...), Baharvand, H., Nasr , .339
 Esfahani, M. , H...., ERK1/2 is a key regulator of Fndc5 and PGC1alpha expression during neural
 .differentiation of mESCs, *Neuroscience*, 2015
- Zali, A., Arab, L., Ashrafi, F., (...), Baharvand, H., Aghdami, N., Intrathecal injection of CD133- .340
 positive enriched bone marrow progenitor cells in children with cerebral palsy: Feasibility and
 .safety, *Cytotherapy*, 2015
- Ziaei, A., Ardakani, M.R.P., Hashemi, M. , S., (...), Baharvand, H., Nasr , Esfahani, M.H., Acute .341
 course of deferroxamine promoted neuronal differentiation of neural progenitor cells through
 suppression of Wnt/beta-catenin pathway: A novel efficient protocol for neuronal
 .differentiation, *Neuroscience Letters*, 2015
- Sharifi ,& Zarchi, A., Totonchi, M., Khaloughi, K., (...), Chitsaz, H., Sadeghi, M., Increased .342
 robustness of early embryogenesis through collective decision-making by key transcription
 .factors, *BMC Systems Biology*, 2015
- In vivo integration of poly(e-caprolactone)/gelatin nanofibrous nerve guide seeded with .343
 teeth derived stem cells for peripheral nerve regeneration, *Journal of Biomedical Materials
 .Research - Part A*, 2014
- Rabiee, F., Forouzanfar, M., Ghazvini Zadegan, F., (...), Baharvand, H., Nasr , & Esfahani, .344
 M.H., Induced expression of Fndc5 significantly increased cardiomyocyte differentiation rate of
 .mouse embryonic stem cells, *Gene*, 2014
- Moradi, S., Baharvand, H., Induced pluripotent stem cells, from generation to application: .345
 .Review article, *Tehran University Medical Journal*, 2014
- Parvini, M., Satarian, L., Parivar, K., (...), Ahmad, S., Baharvand, H., Human Pluripotent Stem .346
 Cell-Derived Retinal Pigmented Epithelium in Retinal Treatment: from Bench to Bedside
 .۱۲, *Molecular Neurobiology*, 2014
- Hassani, S. ,& N., Pakzad, M., Asgari, B., Taei, A., Baharvand, H., Suppression of transforming .347
 growth factor beta signaling promotes ground state pluripotency from single
 .blastomeres, *Human Reproduction*, 2014
- Farzaneh, Z., Pakzad, M., Vosough, M., Pournasr, B., Baharvand, H., Differentiation of human .348
 embryonic stem cells to hepatocyte-like cells on a new developed xeno-free extracellular
 .matrix, *Histochemistry and Cell Biology*, 2014
- Seifi, T., Ghaedi, K., Tanhaei, S., (...), Baharvand, H., Nasr , Esfahani, M. , H., Identification, .349
 cloning, and functional analysis of the TATA-less mouse FNDC5 promoter during neural
 .differentiation, *Cellular and Molecular Neurobiology*, 2014
- Seifi, T., Ghaedi, K., Tanhaei, S., (...), Baharvand, H., Nasr , Esfahani, M. , H., Identification, .350
 cloning, and functional analysis of the TATA-less mouse FNDC5 promoter during neural
 .differentiation, *Cellular and Molecular Neurobiology*, 2014
- Akbari ,& Birgani, S., Hosseinkhani, S., Mollamohamadi, S., Baharvand, H., Delay in .351
 apoptosome formation attenuates apoptosis in mouse embryonic stem cell
 .differentiation, *Journal of Biological Chemistry*, 2014
- Moghadasali, R., Azarnia, M., Hajinasrollah, M., (...), Baharvand, H., Aghdami, N., Intra-renal .352
 arterial injection of autologous bone marrow mesenchymal stromal cells ameliorates cisplatin-
 .induced acute kidney injury in a rhesus Macaque mulatta monkey model, *Cytotherapy*, 2014
- Mirakhori, F., Zeynali, B., Salekdeh, G.H., Baharvand, H., Induced neural lineage cells as repair .353
 .kits: So close, yet so far away, *Journal of Cellular Physiology*, 2014
- Attari, F., Sepehri, H., Ansari, H., (...), Shahverdi, A., Baharvand, H., Efficient induction of .354

pluripotency in primordial germ cells by dual inhibition of TGF-beta and ERK signaling .pathways,Stem Cells and Development,2014

Ghodsizadeh, A., Hosseinkhani, H., Piryaee, A., (...), Hiraoka, Y., Baharvand, H.,Galactosylated .355 collagen matrix enhanced in vitro maturation of human embryonic stem cell-derived hepatocyte-like cells,Biotechnology Letters,2014

Fathi, A., Hatami, M., Vakilian, H., (...), Baharvand, H., Salekdeh, G.H.,Quantitative .356 proteomics analysis highlights the role of redox hemostasis and energy metabolism in human embryonic stem cell differentiation to neural cells,Journal of Proteomics,2014

Ejeian, F., Baharvand, H., Nasr ,& Esfahani, M.H.,Hedgehog signalling is dispensable in the .357 proliferation of stem cells from human exfoliated deciduous teeth,Cell Biology International,2014

Gharechahi, J., Pakzad, M., Mirshavaladi, S., (...), Baharvand, H., Salekdeh, G.H.,The effect of .358 Rho-associated kinase inhibition on the proteome pattern of dissociated human embryonic stem cells,Molecular BioSystems,2014

Hassani, S. , N., Totonchi, M., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H.,Inhibition .359 .of TGFbeta Signaling Promotes Ground State Pluripotency,Stem Cell Reviews and Reports,2014

Hassani, S. ,& N., Totonchi, M., Gourabi, H., Scholer, H.R., Baharvand, H.,Signaling roadmap .360 .modulating naive and primed pluripotency,Stem Cells and Development,2014

Kalantari, H., Motamed, N., Mohseni Meybodi, A., (...), Baharvand, H., Gourabi, H.,The .361 response of mouse embryonic stem cells to low doses of gamma-radiation: Evidence for an adaptive response,Mutation Research - Genetic Toxicology and Environmental Mutagenesis,2014

Rajabi , Zeleti, S., Jalili , Firoozinezhad, S., Azarnia, M., (...), Baharvand, H., Aghdami, N.,The .362 behavior of cardiac progenitor cells on macroporous pericardium-derived scaffolds,Biomaterials,2014

Moradi, S., Asgari, S., Baharvand, H.,Concise review: Harmonies played by MicroRNAs in cell .363 .fate reprogramming,Stem Cells,2014

Nemati, S., Jabbari, R., Hajinasrollah, M., (...), Rezaee, O., Kiani, S.,Transplantation of adult .364 monkey neural stem cells into a contusion spinal cord injury model in rhesus macaque monkeys,Cell Journal,2014

Khayyatan, F., Nemati, S., Kiani, S., Emami, S.H., Baharvand, H.,Behaviour of human induced .365 pluripotent stem cell-derived neural progenitors on collagen scaffolds varied in freezing temperature and laminin concentration,Cell Journal,2014

Shekari, F., Baharvand, H., Salekdeh, G.H.,Organellar proteomics of embryonic stem .366 .cells,Advances in Protein Chemistry and Structural Biology,2014

Tahamtani, Y., Azarnia, M., Farrokhi, A., (...), Aghdami, N., Baharvand, H.,Stauprimide .367 .priming of human embryonic stem cells toward definitive endoderm,Cell Journal,2014

Moghadasali, R., Mutsaers, H.A.M., Azarnia, M., (...), Wilmer, M.J.G., Masereeuw, .368 R.,Mesenchymal stem cell-conditioned medium accelerates regeneration of human renal proximal tubule epithelial cells after gentamicin toxicity,Experimental and Toxicologic Pathology,2013 7 1

Fattahi, F., Asgari, S., Pournasr, B., (...), Salekdeh, G.H., Baharvand, H.,Disease-corrected .369 hepatocyte-like cells from familial hypercholesterolemia- induced pluripotent stem cells,Molecular Biotechnology,2013 7 1

Rassouli, H., Nemati, S., Rezaeiani, S., (...), Baharvand, H., Gourabi, H.,Cloning, expression, .370 and functional characterization of in-house prepared human leukemia inhibitory factor,Cell Journal,2013 6 1

Tahamtani, Y., Azarnia, M., Farrokhi, A., (...), Aghdami, N., Baharvand, H.,Treatment of .371 human embryonic stem cells with different combinations of priming and inducing factors toward definitive endoderm,Stem Cells and Development,2013 5 1

Azhdari, M., Baghaban ,& Eslaminejad, M., Baharvand, H., Aghdami, N.,Therapeutic potential .372
of human-induced pluripotent stem cell-derived endothelial cells in a bleomycin-induced
.scleroderma mouse model,Stem Cell Research,2013 5 1

Mohamadynejad, P., Ghaedi, K., Shafeghati, Y., (...), Baharvand, H., Nasr ,& Esfahani, .373
M.H.,Identification of a novel missense mutation of PEX7 gene in an Iranian patient with
.rhizomelic chondrodysplasia punctata type 1,Gene,2013 4 15

Miryounesi, M., Piryaei, A., Pournasr, B., Aghdami, N., Baharvand, H.,Repeated versus single .374
transplantation of mesenchymal stem cells in carbon tetrachloride-induced liver injury in
.mice,Cell Biology International,2013 4 1

Shahhoseini, M., Taghizadeh, Z., Hatami, M., Baharvand, H.,Retinoic acid dependent histone .375
3 demethylation of the clustered HOX genes during neural differentiation of human embryonic
.stem cells,Biochemistry and Cell Biology,2013 4 1

Sojoodi, M., Farrokhi, A., Moradmand, A., Baharvand, H.,Enhanced maintenance of rat islets .376
of langerhans on laminin-coated electrospun nanofibrillar matrix in vitro,Cell Biology
.International,2013 4 1

Peymani, M., Ghoochani, A., Ghaedi, K., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,Dual .377
effects of peroxisome proliferator-activated receptor gamma on embryonic stem cell self-
renewal in presence and absence of leukemia inhibitory factor,European Journal of Cell
.Biology,2013 4 1

Dehghani, L., Farokhpour, M., Karbalaie, K., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,The .378
influence of dexamethasone administration on the protection against doxorubicin-induced
.cardiotoxicity in purified embryonic stem cell-derived cardiomyocytes,Tissue and Cell,2013 4 1

Shakeri, M., Kohram, H., Shahverdi, A., (...), Koruji, M., Baharvand, H.,Behavior of mouse .379
spermatogonial stem-like cells on an electrospun nanofibrillar matrix,Journal of Assisted
.Reproduction and Genetics,2013 3 1

Hashemi, M. , S., Ghaedi, K., Salamian, A., (...), Nasr , Esfahani, M.H., Baharvand, H.,Fndc5 .380
knockdown significantly decreased neural differentiation rate of mouse embryonic stem
.cells,Neuroscience,2013 2 2

Jangravi, Z., Alikhani, M., Arefnezhad, B., (...), Gourabi, H., Salekdeh, G.H.,A fresh look at the .381
.male-specific region of the human y chromosome,Journal of Proteome Research,2013 1 4

Fonoudi, H., Yeganeh, M., Fattahi, F., (...), Salekdeh, G.H., Aghdami, N.,ISL1 Protein .382
Transduction Promotes Cardiomyocyte Differentiation from Human Embryonic Stem Cells,PLoS
.ONE,2013 1 30

Miremadi, T., Salekdeh, G.H., Aghdami, N., (...), Kouhkan, A., Baharvand, H.,Stem cell .383
research and therapy in the Islamic Republic of Iran: Pioneering in the Islamic world,Stem Cells
.and Development,2013 1 1

.Baharvand, H., Aghdami, N.,Preface,Regenerative Medicine and Cell Therapy,2013 1 1 .384

Baharvand, H., Aghdami, N.,Regenerative medicine and cell therapy,Regenerative Medicine .385
.and Cell Therapy,2013 1 1

Satarian, L., Javan, M., Kiani, S., (...), Mirnajafi ,& Zadeh, J., Baharvand, H.,Engrafted human .386
induced pluripotent stem cell-derived anterior specified neural progenitors protect the rat
.crushed optic nerve,PloS one,2013

Moslem, M., Valojerdi, M.R., Pournasr, B., Muhammadnejad, A., Baharvand, H.,Therapeutic .387
potential of human induced pluripotent stem cell-derived mesenchymal stem cells in mice with
.lethal fulminant hepatic failure,Cell Transplantation,2013

Rassouli, H., Bordbar, M.S.T., Larijani, M.R., (...), Baharvand, H., Salekdeh, G.H.,Cloning, .388
expression and functional characterization of in-house prepared human basic fibroblast growth
.factor,Cell Journal,2013

Baharvand, H., Hassani, S. ,& N.,A new chemical approach to the efficient generation of .389
.mouse embryonic stem cells,Methods in Molecular Biology,2013

Salamian, A., Mohamadynejad, P., Ghaedi, K., (...), Baharvand, H., Nasr ,& Esfahani, .390
M.H.,C86Y: As a destructive homozygous mutation deteriorating Pex7p function causing
.rhizomelic chondrodysplasia punctata type I,Annals of Clinical and Laboratory Science,2013

Fazeli, A.S., Nasrabadi, D., Pouya, A., (...), Baharvand, H., Salekdeh, G.H.,Proteome analysis .391
of post-transplantation recovery mechanisms of an EAE model of multiple sclerosis treated with
.embryonic stem cell-derived neural precursors,Journal of Proteomics,2013

Abbasalizadeh, S., Baharvand, H.,Technological progress and challenges towards cGMP .392
manufacturing of human pluripotent stem cells based therapeutic products for allogeneic and
.autologous cell therapies,Biotechnology Advances,2013

Pakzad, M., Ashtiani, M.K., Mousavi ,& Gargari, S.L., Baharvand, H.,Development of a simple, .393
repeatable, and cost-effective extracellular matrix for long-term xeno-free and feeder-free self-
.renewal of human pluripotent stem cells,Histochemistry and Cell Biology,2013

Vosough, M., Omidinia, E., Kadivar, M., (...), Aghdami, N., Baharvand, H.,Generation of .394
functional hepatocyte-like cells from human pluripotent stem cells in a scalable suspension
.culture,Stem Cells and Development,2013

Taei, A., Hassani, S. , N., Eftekhari , Yazdi, P., (...), Gourabi, H., Baharvand, H.,Enhanced .395
generation of human embryonic stem cells from single blastomeres of fair and poor-quality
cleavage embryos via inhibition of glycogen synthase kinase beta and Rho-associated kinase
.signaling,Human Reproduction,2013

Bazrgar, M., Gourabi, H., Valojerdi, M.R., Yazdi, P.E., Baharvand, H.,Self-correction of .396
chromosomal abnormalities in human preimplantation embryos and embryonic stem cells,Stem
.Cells and Development,2013

Dehghan, S., Javan, M., Pourabdolhossein, F., Mirnajafi ,& Zadeh, J., Baharvand, H.,Basic .397
fibroblast growth factor potentiates myelin repair following induction of experimental
demyelination in adult mouse optic chiasm and nerves,Journal of Molecular Neuroscience,2012
.9 1

Gheisari, Y., Baharvand, H., Nayernia, K., Vasei, M.,Stem Cell and Tissue Engineering .398
.Research in the Islamic Republic of Iran,Stem Cell Reviews and Reports,2012 9 1

Zahabi, A., Shahbazi, E., Ahmadi, H., (...), Salekdeh, G.H., Baharvand, H.,A new efficient .399
protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal
.disease induced pluripotent stem cells,Stem Cells and Development,2012 8 10

Moraveji, S. ,& F., Attari, F., Shahverdi, A., (...), Aghdami, N., Baharvand, H.,Inhibition of .400
glycogen synthase kinase-3 promotes efficient derivation of pluripotent stem cells from neonatal
.mouse testis,Human Reproduction,2012 8 1

Taghipour, Z., Karbalaie, K., Kiani, A., (...), Nasr ,& Esfahani, M.H., Baharvand, .401
H.,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 7 1

Masaeli, E., Morshed, M., Rasekhian, P., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,Does the .402
tissue engineering architecture of poly(3-hydroxybutyrate) scaffold affects cell-material
.interactions?,Journal of Biomedical Materials Research - Part A,2012 7 1

Jadaliha, M., Lee, H. , J., Pakzad, M., (...), Paik, Y. , K., Salekdeh, G.H.,Quantitative proteomic .403
analysis of human embryonic stem cell differentiation by 8-Plex iTRAQ labelling,PLoS ONE,2012
.6 18

Hassani, S. ,& N., Totonchi, M., Farrokhi, A., (...), Gourabi, H., Baharvand, H.,Simultaneous .404
Suppression of TGF-beta 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 6 1

Faradonbeh, M.Z., Gharechahi, J., Mollamohammadi, S., (...), Baharvand, H., Salekdeh, .405
G.H.,An orthogonal comparison of the proteome of human embryonic stem cells with that of

human induced pluripotent stem cells of different genetic background, *Molecular BioSystems*, 2012 6 1

- Ganji, F., Abruon, S., Baharvand, H., Ebrahimi, M., Aghdami, N., In-vitro differentiation of human embryonic stem cells into hemangioblasts, *Tehran University Medical Journal*, 2012 6 1 .406
- Nasiri, Z., Hosseini, S.M., Hajian, M., (...), Baharvand, H., Nasr, & Esfahani, M.H., Effects of different feeder layers on short-term culture of prepubertal bovine testicular germ cells In-vitro, *Theriogenology*, 2012 5 1 .407
- Ebrahimi, B., Valojerdi, M.R., Eftekhari, & Yazdi, P., Baharvand, H., Ultrastructural changes of sheep cumulus-oocyte complexes following different methods of vitrification, *Zygote*, 2012 5 1 .408
- Hosseini, S.M., Hajian, M., Forouzanfar, M., (...), Baharvand, H., Nasr, & Esfahani, M.H., Enucleated ovine oocyte supports human somatic cells reprogramming back to the embryonic stage, *Cellular Reprogramming*, 2012 4 1 .409
- Hosseini, S.M., Hajian, M., Forouzanfar, M., (...), Baharvand, H., Nasr, & Esfahani, M.H., Enucleated ovine oocyte supports human somatic cells reprogramming back to the embryonic stage, *Cellular Reprogramming*, 2012 4 1 .410
- Tavakolifar, F., Shahverdi, A., Pirouz, M., (...), Koruji, M., Baharvand, H., Comparison of neonatal and adult mice-derived Sertoli cells in support of expansion of mouse spermatogonial stem cells in vitro, *International Journal of Fertility and Sterility*, 2012 3 1 .411
- Yousefi, M., Hajihoseini, V., Jung, W., (...), Lee, K.Y., Salekdeh, G.H., Embryonic Stem Cell Interactomics: The Beginning of a Long Road to Biological Function, *Stem Cell Reviews and Report*, 2012 12 1 .412
- Esfandiari, F., Fathi, A., Gourabi, H., (...), Nemati, S., Baharvand, H., Glycogen synthase kinase-3 inhibition promotes proliferation and neuronal differentiation of human-induced pluripotent stem cell-derived neural progenitors, *Stem Cells and Development*, 2012 11 20 .413
- Abbasalizadeh, S., Larijani, M.R., Samadian, A., Baharvand, H., Bioprocess development for mass production of size-controlled human pluripotent stem cell aggregates in stirred suspension bioreactor, *Tissue Engineering - Part C: Methods*, 2012 11 1 .414
- Seifi, T., Ghaedi, K., Salamian, A., (...), Baharvand, H., Esfahani, M., & H.N., Amplification of GC-rich putative mouse PeP promoter using betaine and DMSO in ammonium sulfate polymerase chain reaction buffer, *Avicenna Journal of Medical Biotechnology*, 2012 10 1 .415
- Lachinani, L., Ghaedi, K., Tanhaei, S., (...), Baharvand, H., Nasr, & Esfahani, M.H., Characterization and functional assessment of mouse PPARgamma1 promoter, *Avicenna Journal of Medical Biotechnology*, 2012 10 1 .416
- Amirpour, N., Karamali, F., Rabiee, F., (...), Nasr, & Esfahani, M.H., Baharvand, H., 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 1 1 .417
- Bahadorani, M., Hosseini, S.M., Abedi, P., (...), Baharvand, H., Nasr, & Esfahani, M.H., Short-term in-vitro culture of goat enriched spermatogonial stem cells using different serum concentrations, *Journal of Assisted Reproduction and Genetics*, 2012 1 1 .418
- Ghoochani, A., Shabani, K., Peymani, M., (...), Nasr, & Esfahani, M.H., Baharvand, H., The influence of peroxisome proliferator-activated receptor gamma 1 during differentiation of mouse embryonic stem cells to neural cells, *Differentiation*, 2012 1 1 .419
- Ahmadi, H., Farahani, M.M., Kouhkan, A., (...), Baharvand, H., Aghdami, N., Five-Year follow-up of the local autologous transplantation of CD133+ enriched bone marrow cells in patients with myocardial infarction, *Archives of Iranian Medicine*, 2012 1 1 .420
- Salehi, H., Karbalaie, K., Salamian, A., (...), Nasr, & Esfahani, M.H., Baharvand, H., Differentiation of human ES cell-derived neural progenitors to neuronal cells with regional specific identity by co-culturing of notochord and somite, *Stem Cell Research*, 2012 1 1 .421
- Baharvand, H., Aghdami, N., Advances in stem cell research, *Advances in Stem Cell* .422

- .Research,2012 1 1
- Niapour, A., Karamali, F., Nemati, S., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,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
- Baharvand, H., Larijani, M.R., Yousefi, M.,Protocol for expansion of undifferentiated human .424
.embryonic and pluripotent stem cells in suspension,Methods in Molecular Biology,2012
- Meamar, R., Karamali, F., Mousavi, S.A., Baharvand, H., Nasr ,& Esfahani, M.H.,Could MDMA .425
promote stemness characteristics in mouse embryonic stem cells via mglu5 metabotropic
.glutamate receptors?,Cell Journal,2012
- Shekari, F., Taei, A., Pan, T. ,& L., (...), Baharvand, H., Salekdeh, G.H.,Identification of .426
cytoplasmic and membrane-associated complexes in human embryonic stem cells using blue
.native PAGE,Molecular BioSystems,2011 9 1
- Ranjbarvaziri, S., Kiani, S., Akhlaghi, A., (...), Baharvand, H., Aghdami, N.,Quantum dot .427
labeling using positive charged peptides in human hematopoietic and mesenchymal stem
.cells,Biomaterials,2011 8 1
- Amps, K., Andrews, P.W., Anyfantis, G., (...), Young, L., Zhou, Q.,Screening ethnically diverse .428
human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth
.advantage,Nature Biotechnology,2011 12 1
- Shahbazi, E., Kiani, S., Gourabi, H., Baharvand, H.,Electrospun nanofibrillar surfaces promote .429
neuronal differentiation and function from human embryonic stem cells,Tissue Engineering - Part
.A,2011 12 1
- Vosough, M., Moslem, M., Pournasr, B., Baharvand, H.,Cell-based therapeutics for liver .430
.disorders,British Medical Bulletin,2011 12 1
- Pournasr, B., Khaloughi, K., Salekdeh, G.H., (...), Shahbazi, E., Baharvand, H,Concise review: .431
Alchemy of biology: Generating desired cell types from abundant and accessible cells,Stem
.Cells,2011 12 1
- Namiri, M., Baharvand, H., Aghdami, N.,Methods for isolation of bone marrow stem cells: .432
.Comparative analysis,Yakhteh,2011 12 1
- Rezaei, M., Karbalaie, K., Tanhaie, S., (...), Nasr Esfahani, M.H., Baharvand, H.,Bone .433
morphogenetic protein-4 influences neural differentiation of induced mouse mesenchymal stem
.cells,Yakhteh,2011 12 1
- Kiani, S., Mirnajafi ,& Zadeh, J., Shahbazi, E., Baharvand, H.,Existence of a delayed rectifier .434
K⁺ current in the membrane of human embryonic stem cel,Physiology and Pharmacology,2011
.12 1
- Pouya, A., Satarian, L., Kiani, S., Javan, M., Baharvand, H.,Human induced pluripotent stem .435
cells differentiation into oligodendrocyte progenitors and transplantation in a rat model of optic
.chiasm demyelination,PLoS ONE,2011 11 18
- Larijani, M.R., Seifinejad, A., Pournasr, B., (...), Salekdeh, G.H., Baharvand, H.,Long-term .436
maintenance of undifferentiated human embryonic and induced pluripotent stem cells in
.suspension,Stem cells and development,2011 11 1
- Zare ,& Mehrjardi, N., Khorasani, M.T., Hemmesi, K., (...), Barzin, J., Baharvand, .437
H.,Differentiation of embryonic stem cells into neural cells on 3D poly (D, L-lactic acid) scaffolds
.versus 2D cultures,International Journal of Artificial Organs,2011 10 1
- Afzal, E., Ebrahimi, M., Najafi, S.M.A., Daryadel, A., Baharvand, H.,Potential role of heat .438
shock proteins in neural differentiation of murine embryonal carcinoma stem cells (P19),Cell
.Biology International,2011
- Rahjouei, A., Kiani, S., Zahabi, A., (...), Hashemi, M., Baharvand, H.,Interactions of human .439
embryonic stem cell-derived neural progenitors with an electrospun nanofibrillar surface in
.vitro,International Journal of Artificial Organs,2011

Baharvand, H., Malekzadeh, R., Application of stem cells in Gastroenterology and Hepatology, 6th January 2011; In Memory of Dr. Saeid Kazemi Ashtiani, A Great Scientist Who Passed Away Too Soon But Left A Legacy, Archives of Iranian medicine, 2011 .440

Ghasemi, Mobarakeh, L., Prabhakaran, M.P., Morshed, M., (...), Al, Deyab, S.S., Ramakrishna, S., Application of conductive polymers, scaffolds and electrical stimulation for nerve tissue engineering, Journal of Tissue Engineering and Regenerative Medicine, 2011 .441

Piryaei, A., Valojerdi, M.R., Shahsavani, M., Baharvand, H., 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, Stem Cell Reviews and Reports, 2011 .442

Nemati, S., Hatami, M., Kiani, S., (...), Alaei, S., Baharvand, H., Long-term self-renewable feeder-free human induced pluripotent stem cell-derived neural progenitors, Stem Cells and Development, 2011 .443

Ostadsharif, M., Ghaedi, K., Hossein Nasr, & Esfahani, M., (...), Karbalaie, K., Baharvand, H., The expression of peroxisomal protein transcripts increased by retinoic acid during neural differentiation, Differentiation, 2011 .444

Nikeghbalian, S., Pournasr, B., Aghdami, N., (...), Malek, & Hosseini, S.A., Baharvand, H., Autologous transplantation of bone marrow-derived mononuclear and CD133+ cells in patients with decompensated cirrhosis, Archives of Iranian Medicine, 2011 .445

Ghasemi, & Mobarakeh, L., Prabhakaran, M.P., Morshed, M., (...), Baharvand, H., Ramakrishna, S., Polycaprolactone nanofibrous scaffolds with particular application in nerve tissue engineering, Nanofibers and Nanotechnology Research Advances, 2011 .446

Nourbakhsh, N., Soleimani, M., Taghipour, Z., (...), Nasr, Esfahani, M., H., Baharvand, H., Induced in vitro differentiation of neural-like cells from human exfoliated deciduous teeth-derived stem cells, International Journal of Developmental Biology, 2011 .447

Fathi, A., Hatami, M., Hajihosseini, V., (...), Baharvand, H., Salekdeh, G.H., Comprehensive gene expression analysis of human embryonic stem cells during differentiation into neural cells, PLoS ONE, 2011 .448

In vitro differentiation of human bone marrow mesenchymal stem cells into hepatocyte-like cells, In vitro differentiation of human bone marrow mesenchymal stem cells into hepatocyte-like cells, Archives of Iranian Medicine, 2011 .449

Salehi, H., Karbalaie, K., Razavi, S., (...), Nasr, Esfahani, M., H., Baharvand, H., Neuronal induction and regional identity by co-culture of adherent human embryonic stem cells with chicken notochords and somites, International Journal of Developmental Biology, 2011 .450

Mehdikhani Karimabad, H., Shabestari, M., Baharvand, H., (...), Mahmoodi, M., Aghdami, N., Lack of beneficial effects of granulocyte colony-stimulating factor in patients with subacute myocardial infarction undergoing late revascularization: A double-blind, randomized, placebo-controlled clinical trial, Acta Cardiologica, 2011 .451

Khezri, S., Javan, M., Baharvand, H., Semnani, S., Reaction of subventricular zone stem cells to the induction of experimental autoimmune encephalomyelitis in mouse, Physiology and Pharmacology, 2011 .452

Khoshchereh, R., Ebrahimi, M., Baghban Eslaminejad, M., Aghdami, N., Baharvand, H., In vitro potential of human bone marrow and umbilical cord vein mesenchymal stem cells to differentiate into insulin producing cells, Iranian Journal of Endocrinology and Metabolism, 2011 .453

Ghasemi, & Mobarakeh, L., Prabhakaran, M.P., Morshed, M., (...), Baharvand, H., Ramakrishna, S., Modification of PCL nanofibrous scaffolds for nerve tissue engineering, Recent Progress in Chemistry and Chemical Engineering Research, 2011 .454

Pournasr, B., Farzaneh, Z., Shahsanvani, M., Baharvand, H., Liver development and in vitro differentiation of embryonic stem cells to hepatocytes, Yakhteh, 2010 .455

Shahhoseini, M., Favaedi, R., Baharvand, H., Sharma, V., Stunnenberg, .456

H.G.,https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Title%3A-Evidence%20for%20a%20dynamic%20role%20of%20the%20linker%20histone%20variant%20H1x%20during%20retinoic%20acid%20induced%20differentiation%20of%20NT2%20cells,-%DB%B1%DB%B3,FEBS Letters,2010 .457

Seifinejad, A., Baharvand, H., Human cardiomyocytes with long-qt syndrome in dish, *Archives of Iranian Medicine*, 2010 .458

Asgari, S., Pournasr, B., Salekdeh, G.H., (...), Ott, M., Baharvand, H., Induced pluripotent stem cells: A new era for hepatology, *Journal of Hepatology*, 2010 .459

Nojehdehian, H., Moztarzadeh, F., Baharvand, H., (...), Nazarian, H., Tahriri, M., Effect of poly-L-lysine coating on retinoic acid-loaded PLGA microspheres in the differentiation of carcinoma stem cells into neural cells, *International Journal of Artificial Organs*, 2010 .460

Khodadadi, L., Shafieyan, S., Sotoudeh, M., (...), Aghdami, N., Baharvand, H., Intraepidermal injection of dissociated epidermal cell suspension improves vitiligo, *Archives of Dermatological Research*, 2010 .461

Zafarghandi, M.R., Ravari, H., Aghdami, N., (...), Moini, M., Baharvand, H., Safety and efficacy of granulocyte colony-stimulating factor administration following autologous intramuscular implantation of bone marrow mononuclear cells: A randomized controlled trial in patients with advanced lower limb ischemia, *Cytotherapy*, 2010 .462

Mojbafan, M., Ghaedi, K., Razavi, S., (...), Esfahani, M.H.N., Baharvand, H., Creation of a stable P19 cell line producing PTS2-EGFP, *Journal of Isfahan Medical School*, 2010 .463

Fazeli, A.S., Nasrabadi, D., Sanati, M.H., (...), Baharvand, H., Salekdeh, G.H., Proteome analysis of brain in murine experimental autoimmune encephalomyelitis, *Proteomics*, 2010 .464

Mohamadnejad, M., Pournasr, B., Bagheri, M., (...), Malekzadeh, R., Baharvand, H., Transplantation of allogeneic bone marrow mesenchymal stromal cell-derived hepatocyte-like cells in homozygous familial hypercholesterolemia, *Cytotherapy*, 2010 .465

[https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Rabani%2C%20V.%2C%20Shahsavani%2C%20M.%2C%20Gharavi%2C%20M.%2C%20\(...\)%2C%20Azhdari%2C%20Z.%2C%20Baharvand%2C%20H.](https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Rabani%2C%20V.%2C%20Shahsavani%2C%20M.%2C%20Gharavi%2C%20M.%2C%20(...)%2C%20Azhdari%2C%20Z.%2C%20Baharvand%2C%20H.) Mesenchymal stem cell infusion therapy in a carbon tetrachloride-induced liver fibrosis model affects matrix metalloproteinase expression, [https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Journal%3A-Cell%20Biology%20International,-%2C%2034\(6,2010](https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Journal%3A-Cell%20Biology%20International,-%2C%2034(6,2010) .466

Seifinejad, A., Tabebordbar, M., Baharvand, H., Boyer, L.A., Salekdeh, G.H., Title: Progress and promise towards safe induced pluripotent stem cells for therapy, *Stem Cell Reviews and Reports*, 2010 .467

Azizi, H., Mehrjardi, N., & Z., Shahbazi, E., (...), Bahmani, M.K., Baharvand, H., 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 .468

Shahhoseini, M., Taei, A., Mehrjardi, N.Z., Salekdeh, G.H., Baharvand, H., Epigenetic analysis of human embryonic carcinoma cells during retinoic acid-induced neural differentiation, *Biochemistry and Cell Biology*, 2010 .469

Meamar, R., Karamali, F., Sadeghi, H.M., (...), Nasr, & Esfahani, M.H., Baharvand, H., Toxicity of ecstasy (MDMA) towards embryonic stem cell-derived cardiac and neural cells, *Toxicology in Vitro*, 2010 .470

Piryaee, A., Valojerdi, M.R., Shahsavani, M., Baharvand, H., The role of ultraweb nano-fibrillar substrates in the differentiation of in vitro mouse bone marrow mesenchymal stem cell-derived hepatocyte-like cells, *Yakhteh*, 2010 .471

https://isid.research.ac.ir/Hossein_Baharvand#:~:text=Koruji%2C%20M.%2C%20Azizi%2C%20H.%2C%20Shahverdi%2C%20A.%2C%20Baharvand%2C%20H. Mouse and human spermatogonial

- .stem cells,Yakhteh,2010
- Mohammadi, P., Ebrahimi, M., Baharvand, H.,Corneal differentiation following HSC70 and .472
HSP72 expression in air-exposed limbal stem cells cultured on denuded amniotic
.membrane,Yakhteh,2010
- Nasrabadi, D., Larijani, M.R., Fathi, A., (...), Baharvand, H., Salekdeh, G.H.,Erratum to: Nuclear .473
Proteome Analysis of Monkey Embryonic Stem Cells During Differentiation (Stem Cell Rev and
.Rep, 10.1007/s12015-009-9109-6),Stem Cell Reviews and Reports,2010
- Baradaran , Rafii, A., Ebrahimi, M., Kanavi, M.R., (...), Baharvand, H., Javadi, M. , A.,Midterm .474
outcomes of autologous cultivated limbal stem cell transplantation with or without penetrating
.keratoplasty,Cornea,2010
- Ebrahimi, B., Valojerdi, M.R., Eftekhari ,& Yazdi, P., Baharvand, H.,In vitro maturation, .475
apoptotic gene expression and incidence of numerical chromosomal abnormalities following
cryotop vitrification of sheep cumulus-oocyte complexes,Journal of Assisted Reproduction and
.Genetics,2010
- Taei, A., Gourabi, H., Seifinejad, A., (...), Karimian, L., Baharvand, H.,Derivation of new human .476
embryonic stem cell lines from preimplantation genetic screening and diagnosis-analyzed
.embryos,In Vitro Cellular and Developmental Biology - Animal,2010
- Pakzad, M., Totonchi, M., Taei, A., (...), Hassani, S.N., Baharvand, H.,Presence of a ROCK .477
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
- Pakzad, M., Totonchi, M., Taei, A., (...), Hassani, S.N., Baharvand, H.,Presence of a ROCK .478
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
- Baharvand, H., Salekdeh, G.H., Taei, A., Mollamohammadi, S.,An efficient and easy-to-use .479
.cryopreservation protocol for human ES and iPS cells,Nature Protocols,2010
- Nasrabadi, D., Larijani, M.R., Fathi, A., (...), Baharvand, H., Salekdeh, G.H.,Nuclear proteome .480
analysis of monkey embryonic stem cells during differentiation,Stem Cell Reviews and
.Reports,2010
- Ghasemi, S., Ghaedi, K., Esfahani, M.H.N., (...), Baharvand, H., Esmaeili, A.,Intranuclear .481
.localization of EGFP-mouse PPARgamma1 in bovine fibroblast cells,Yakhteh,2010
- Shahverdi, A., Movahedin, M., Valojerdi, M.R., Baharvand, H.,Evaluation of embryos derived .482
from in vitro fertilized oocytes reconstructed by meiosis-II chromosome transplantation from
.aged mice to ooplasm of young mice,International Journal of Fertility and Sterility,2010
- Ebrahimi, B., Valojerdi, M.R., Eftekhari ,& Yazdi, P., Baharvand, H., Farrokhi, A.,IVM and gene .483
expression of sheep cumulus - oocyte complexes following different methods of
.vitrification,Reproductive BioMedicine Online,2010
- Seifinejad, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Generation of human .484
induced pluripotent stem cells from a Bombay individual: Moving towards universal-donor red
.blood cells,Biochemical and Biophysical Research Communications,2010
- Ghodsizadeh, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Generation of .485
Liver Disease-Specific Induced Pluripotent Stem Cells Along with Efficient Differentiation to
.Functional Hepatocyte-Like Cells,Stem Cell Reviews and Reports,2010
- Totonchi, M., Taei, A., Seifinejad, A., (...), Hosseini ,& Salekdeh, G., Baharvand, H.,Feeder- .486
and serum-free establishment and expansion of human induced pluripotent stem
.cells,International Journal of Developmental Biology,2010
- Farzaneh, Z., Pournasr, B., Ebrahimi, M., Aghdami, N., Baharvand, H.,Enhanced Functions of .487
Human Embryonic Stem Cell-derived Hepatocyte-like Cells on Three-dimensional Nanofibrillar
.Surfaces,Stem Cell Reviews and Reports,2010

Niapour, A., Karamali, F., Karbalaie, K., (...), Nasr, & Esfahani, M.H., Baharvand, H., Novel .488
method to obtain highly enriched cultures of adult rat Schwann cells, *Biotechnology Letters*, 2010

Ebrahimi, M., Mohammadi, P., Daryadel, A., Baharvand, H., Assessment of heat shock protein .489
(HSP60, HSP72, HSP90, and HSC70) expression in cultured limbal stem cells following air
lifting, *Molecular Vision*, 2010

Ostadsharif, M., Ghaedi, K., Nasr, & Esfahani, M.H., (...), Karbalaie, K., Baharvand, H., Sorting .490
analysis of mouse peroxisomal protein by in vitro studies, *Iranian Journal of Biotechnology*, 2010

Moghadam, F.H., Alaie, H., Karbalaie, K., (...), Nasr Esfahani, M.H., Baharvand, .491
H., Transplantation of primed or unprimed mouse embryonic stem cell-derived neural precursor
cells improves cognitive function in Alzheimerian rats, *Differentiation*, 2009 9 1

Ahmadiankia, N., Ebrahimi, M., Hosseini, A., Baharvand, H., Effects of different extracellular .492
matrices and co-cultures on human limbal stem cell expansion in vitro, *Cell Biology*
International, 2009 9 1

Najafi, F., Mehrjardi, N. ,& Z., Hatami, M., Baharvand, H., Differentiation of mouse embryonic .493
stem cells into dorsal Interneurons of the spinal cord using BMP4 and activin A, *Yakhteh*, 2009 9
.1

Fazeli, A.S., Sanati, M.H., Nasrabadi, D., (...), Baharvand, H., Salekdeh, G.H., Central nervous .494
system proteomics in animal model of multiple sclerosis revealed down-regulation of
mitochondrial proteins, *Yakhteh*, 2009 6 1

Tanhaie, S., Ghaedi, K., Karbalaii, K., (...), Baharvand, H., Esfahani, M.H.N., Mouse .495
peroxisomal protein cDNA cloning and characterization of its Intracellular
localization, *Yakhteh*, 2009 6 1

Ostadsharif, M., Ghaedi, K., Esfahani, M.H.N., (...), Parivar, K., Baharvand, H., Cytosolic .496
localization of mouse peroxisomal protein/□SKI fused with enhanced green fluorescent protein
into Chinese hamster ovary-K1 and P19 cells, *Yakhteh*, 2009 6 1

Rabani, V., Baharvand, H., Matrix metalloproteinase's role in producing and curing of liver .497
fibrosis, *Yakhteh*, 2009 6 1

Azizi, H., Mehrjerdi, N.Z., Bahmani, M.K., Baharvand, H., Dehydroepiandrosteron .498
accompanied retinoic acid enhances differentiation of p19 embryonal stem cells into neural
cells, *Yakhteh*, 2009 6 1

Jahantigh, M.N., Ghaedi, K., Isfahani, M.H.N., (...), Razavi, S.H., Miroliaei, M., Construction of .499
expression vectors carrying mouse peroxisomal protein gene (PeP) with GST and Flag
labels, *African Journal of Biotechnology*, 2009 11 16

Fathi, A., Pakzad, M., Taei, A., (...), Baharvand, H., Salekdeh, G.H., Comparative proteome and .500
transcriptome analyses of embryonic stem cells during embryoid body-based
differentiation, *Proteomics*, 2009 11 1

Sagha, M., Karbalaie, K., Tanhaee, S., (...), Nasr, & Esfahani, M.H., Baharvand, H., Neural .501
induction in mouse embryonic stem cells by co-culturing with chicken somites, *Stem Cells and*
Development, 2009 11 1

Nemati, Sh., Zare Mehrjerdi, N., Baharvand, H., Differentiation of human bone marrow .502
mesenchymal stem cells to neural- like cells in vitro, *Tehran University Medical Journal*, 2009 11
.1

Mollamohammadi, S., Taei, A., Pakzad, M., (...), Masoudi, N., Baharvand, H., A simple and .503
efficient cryopreservation method for feeder-free dissociated human induced pluripotent stem
cells and human embryonic stem cells, *Human Reproduction*, 2009 10 1

Nojehdehian, H., Moztarzadeh, F., Baharvand, H., Nazarian, H., Tahriri, M., Preparation and .504
surface characterization of poly-l-lysine-coated PLGA microsphere scaffolds containing retinoic
acid for nerve tissue engineering: In vitro study, *Colloids and Surfaces B: Biointerfaces*, 2009 10 1

Farokhpour, M., Karbalaie, K., Tanhaei, S., (...), Nasr, & Esfahani, M.H., Baharvand, .505
H., Embryonic stem cell-derived cardiomyocytes as a model system to study cardioprotective

.effects of dexamethasone in doxorubicin cardiotoxicity, *Toxicology in Vitro*, 2009 10 1

Sadraei, H., Abtahi, S.R., Nematollahi, M., (...), Baharvand, H., Nasr, & Esfahani, M.H., Assessment of potassium current in Royan B1 stem cell derived cardiomyocytes by patch-clamp technique, *Research in Pharmaceutical Sciences*, 2009 10 1

Farrokhi, A., Elahi, E., Pirouz, M., Jafary, H., Baharvand, H., Effect of extracellular matrix on differentiation of mouse embryonic stem cells into insulin-producing cells, *Yakhteh*, 2009

Tanhaie, S., Ghaedi, K., Karbalaii, K., (...), Baharvand, H., Esfahani, M.H.N., Mouse peroxisomal protein cDNA cloning and characterization of its Intracellular localization, *Yakhteh*, 2009

Ostadsharif, M., Ghaedi, K., Esfahani, M.H.N., (...), Parivar, K., Baharvand, H., Cytosolic localization of mouse peroxisomal protein/□SKI fused with enhanced green fluorescent protein into Chinese hamster ovary-K1 and P19 cells, *Yakhteh*, 2009

Azizi, H., Mehrjerdi, N.Z., Bahmani, M.K., Baharvand, H., Dehydroepiandrosteron accompanied retinoic acid enhances differentiation of p19 embryonal stem cells into neural cells, *Yakhteh*, 2009

Chitsazan, H., Gourabi, H., Arfae, A.J., Baharvand, H., A simple method for isolation of neoblasts from planaria, *Yakhteh*, 2009

Eslaminejad, M.B., Rouhi, L., Arabnajafi, M., Baharvand, H., Rat marrow-derived mesenchymal stem cells developed in a medium supplemented with the autologous versus bovine serum, *Cell Biology International*, 2009

Gourabi, H., Aleahmad, F., Zeinali, B., Ashtiani, S.K., Baharvand, H., Separation of X- and Y-bearing human spermatozoa by sperm isolation medium gradients evaluated by FISH, *Reproductive BioMedicine Online*, 2009

Nasrabadi, D., Larijani, M.R., Pirhaji, L., (...), Baharvand, H., Salekdeh, G.H., Proteomic analysis of monkey embryonic stem cell During differentiation, *Journal of Proteome Research*, 2009

The thickness of electrospun poly (□) & caprolactone nanofibrous scaffolds influences cell proliferation, The thickness of electrospun poly (□)-caprolactone nanofibrous scaffolds influences cell proliferation, *International Journal of Artificial Organs*, 2009

Anjomshoa, M., Karbalaie, K., Mardani, M., (...), Nasr, & Esfahani, M.H., Baharvand, H., Generation of motor neurons by coculture of retinoic acid-pretreated embryonic stem cells with chicken notochords, *Stem Cells and Development*, 2009

Hatami, M., Mehrjardi, N.Z., Kiani, S., (...), Shahverdi, A., Baharvand, H., Human embryonic stem cell-derived neural precursor transplants in collagen scaffolds promote recovery in injured rat spinal cord, *Cytotherapy*, 2009

Shiri, E.H., Mehrjardi, N., & Z., Tavallaei, M., Ashtiani, S.K., Baharvand, H., Neurogenic and mitotic effects of dehydroepiandrosterone on neuronal-competent marrow mesenchymal stem cells, *International Journal of Developmental Biology*, 2009

Ghasemi, Mobarakeh, L., Morshed, M., Karbalaie, K., (...), Nasr, Esfahani, M.H., Baharvand, H., Electrospun poly (□)-caprolactone) nanofiber mat as extracellular matrix, *Yakhteh*, 2008

Ashtiani, S.K., Nasr, & Esfahani, M.H., Hosseini, S.M., (...), Radpour, R., Salahshouri, I., Royana: Successful experience in cloning the sheep, *Yakhteh*, 2008

Khodadadi, L., Shafieyan, S., Aghdami, N., Baharvand, H., Cell therapy in burn repair, *Yakhteh*, 2008

Jahantigh, M.N., Ghaedi, K., Isfahani, M.H.N., (...), Razavi, S., Miroliaei, M., Intracellular localization of FLAG-peroxisomal protein in Chinese Hamster Ovary (CHO) cells, *Iranian Journal of Biotechnology*, 2008

Baharvand, H., Hashemi, S.M., Shahsavani, M., Differentiation of human embryonic stem cells into functional hepatocyte-like cells in a serum-free adherent culture condition, *Differentiation*, 2008

Kermani, S., Karbalaie, K., Madani, S.H., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,Effect of lead on proliferation and neural differentiation of mouse bone marrow-mesenchymal stem cells,Toxicology in Vitro,2008 .524

Nourbakhsh, N., Talebi, A., Mousavi, B., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,Isolation of mesenchymal stem cells from dental pulp of exfoliated human deciduous teeth,Yakhteh,2008 .525

Rohani, L., Karbalaie, K., Vahdati, A., (...), Nasr ,& Esfahani, M.H., Baharvand, H.,Embryonic stem cell sphere: A controlled method for production of mouse embryonic stem cell aggregates for differentiation,Rohani, L., Karbalaie, K., Vahdati, A., (...), Nasr-Esfahani, M.H., Baharvand, H.,2008 .526

Faghihi, F., Mehranjani, M.S., Mehrjerdi, N.Z., Baharvand, H.,Effect of staurosporine on neural differentiation of CD133+ umbilical cord blood cells,Yakhteh,2008 .527

Ahmadiankia, N., Ebrahimi, M., Hosseini, A., Baharvand, H.,The effects of extracellular matrices and co-culture systems on cultured limbal stem cells,Yakhteh,2008 .528

Jafary, H., Larijani, B., Farrokhi, A., (...), Mollamohammadi, S., Baharvand, H.,Differential effect of activin on mouse embryonic stem cell differentiation in insulin-secreting cells under nestin-positive selection and spontaneous differentiation protocols,Cell Biology International,2008 .529

Baharvand, H., Fathi, A., Gourabi, H., Mollamohammadi, S., Salekdeh, G.H.,Identification of mouse embryonic stem cell-associated proteins,Journal of Proteome Research,2008 .530

Baharvand, H., Mehrjardi, N.Z.,Nanotechnology in stem cell biology and technology,Bionanotechnology: Global Prospects,2008 .531

Mohamadnejad, M., Alimoghaddam, K., Mohyeddin ,& Bonab, M., (...), Ghavamzadeh, A., Malekzadeh, R.,Erratum: Phase 1 trial of autologous bone marrow mesenchymal stem cell transplantation in patients with decompensated liver cirrhosis (Archives of Iranian Medicine (2007) vol. 10 (4) (552-555)),Archives of Iranian Medicine,2008 .532

Darabi, M.R., Nasr , Esfahani, M.H., Baharvand, H., Mardani, M., Karimi , Jashni, H.,Fusion and development of 2-cell bovine embryos to tetraploid blastocyst with different voltages and durations,Iranian Journal of Reproductive Medicine,2008 .533

Mohamadnejad, M., Alimoghaddam, K., Mohyeddin ,& Bonab, M., (...), Ghavamzadeh, A., Malekzadeh, R.,Phase 1 trial of autologous bone marrow mesenchymal stem cell transplantation in patients with decompensated liver cirrhosis,Archives of Iranian Medicine,2007 .534

Baharvand, H., Heidari, M., Ebrahimi, M., Valadbeigi, T., Salekdeh, G.H.,Proteomic analysis of epithelium-denuded human amniotic membrane as a limbal stem cell niche,Molecular Vision,2007 .535

Moghadasali, R., Zeynali, B., Soleimani, M., Hatami, M., Baharvand, H.,Effect of astrocyte-conditioned medium, retinole acid and basic fibroblast growth factor on neural differentiation of mouse embryonic stem cells,Yakhteh,2007 .536

Ghodratnama, R., Karbalaii, K., Ghaedi, K., Baharvand, H., Nasr ,& Esfahani, M.H.,Optimization of PTS2-EGFP expression in CHO and vero cells,Yakhteh,2007 .537

Baharvand, H., Ebrahimi, M., Abadi, E.T.,Expression of K3 in cultured limbal stem cells (6 months after transplantation),Yakhteh,2007 .538

Ahmadi, H., Baharvand, H., Ashtiani, S.K., (...), Shahverdi, A., Dizaji, A.V.,Safety analysis and improved cardiac function following local autologous transplantation of CD133+ enriched bone marrow cells after myocardial infarction,Current Neurovascular Research,2007 .539

Mohamadnejad, M., Namiri, M., Bagheri, M., (...), Malekzadeh, R., Baharvand, H.,Phase 1 human trial of autologous bone marrow-hematopoietic stem cell transplantation in patients with decompensated cirrhosis,World Journal of Gastroenterology,2007 .540

Baharvand, H., Ebrahimi, M., Javadi, M.A.,Comparison of characteristics of cultured limbal cells on denuded amniotic membrane and fresh conjunctival, limbal and corneal tissues,Development Growth and Differentiation,2007 .541

Totonchi, M., Shahhoseini, M., Momeni Moghadam, M., Baharvand, H., Epigenetic of stem .542
 .cells, Yakhteh, 2007

Eimani, H., Tahaei, L.S., Parivar, K., (...), Eftekhari, P., Baharvand, H., Effects of retinoic acid .543
 .on maturation and development of immature mouse oocytes in vitro, Yakhteh, 2007

Khezri, S., Valojerdi, M.R., Sepehri, H., Baharvand, H., Effect of basic fibroblast growth factor .544
 .on cardiomyocyte differentiation from mouse embryonic stem cells, Saudi Medical Journal, 2007

Baharvand, H., Mehrjardi, N., Z., Hatami, M., (...), Rao, M., Haghighi, M., M., Neural .545
 differentiation from human embryonic stem cells in a defined adherent culture
 .condition, International Journal of Developmental Biology, 2007

Sharifiaghdas, F., Hamzehiesfahani, N., Moghadasali, R., Ghaemimanesh, F., Baharvand, .546
 H., Human amniotic membrane as a suitable matrix for growth of mouse urothelial cells in
 .comparison with human peritoneal and omentum membranes, Urology journal, 2007

Eimani, H., Hassani, F., Haerie, & Rohani, S.A., (...), Yazdi, P.E., Samani, R.O., Effect of beta- .547
 mercaptoethanol with and without BSO (DL-buthionine sulfoximine) on resumption of meiosis, in
 .vitro maturation and embryo development of immature mouse oocytes, Yakhteh, 2006

Aboutorabi, R., Esfahani, M.H.N., Baharvand, H., Effect of human sperm MTT viability test on .548
 .outcome of intracytoplasmic sperm injection, Yakhteh, 2006

Baharvand, H., Hajheidari, M., Zonouzi, R., (...), Hosseinkhani, S., Salekdeh, G.H., Comparative .549
 proteomic analysis of mouse embryonic stem cells and neonatal-derived
 .cardiomyocytes, Biochemical and Biophysical Research Communications, 2006

Baharvand, H., Piryaei, A., Rohani, R., (...), Heidari, M.H., Hosseini, A., Ultrastructural .550
 comparison of developing mouse embryonic stem cell- and in vivo-derived cardiomyocytes, Cell
 .Biology International, 2006

Baharvand, H., Hajheidari, M., Ashtiani, S.K., Salekdeh, G.H., Proteomic signature of human .551
 .embryonic stem cells, Proteomics, 2006

Baharvand, H., Jafary, H., Massumi, M., Ashtiani, S.K., Generation of insulin-secreting cells .552
 .from human embryonic stem cells, Development Growth and Differentiation, 2006

Khodadadi, L., Jafari, H., Farrokhi, A., Pirouz, M., Baharvand, H., From pancreatic .553
 .development to diabetes mellitus treatment, Yakhteh, 2006

Baharvand, H., Roche, E., Soria, B., Sources of beta-cells for cell therapy in .554
 .diabetes, Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry, 2006

Baharvand, H., Ashtiani, S.K., Taei, A., (...), Moradi, S.Z., Farrokhi, A., Generation of new .555
 human embryonic stem cell lines with diploid and triploid karyotypes, Development Growth and
 .Differentiation, 2006

Baharvand, H., Hashemi, S.M., Ashtiani, S.K., Farrokhi, A., Differentiation of human embryonic .556
 stem cells into hepatocytes in 2D and 3D culture systems in vitro, International Journal of
 .Developmental Biology, 2006

Zonouzi, R., Ashtiani, S.K., Hosseinkhani, S., Baharvand, H., Kinetic properties of extracted .557
 lactate dehydrogenase and creatine kinase from mouse embryonic stem cell- and neonatal-
 .derived cardiomyocytes, Journal of Biochemistry and Molecular Biology, 2006

Baharvand, H., Hashemi, S.M., Ashtiani, S.K., Expression of endoderm and hepatic specific .558
 genes after in vitro differentiation of human embryonic stem cells, Iranian Biomedical
 .Journal, 2006

Javadi, M.A., Einollahi, B., Rafiei, A.B., (...), Rafati, N., Kanavi, M.R., Early results of .559
 autologous cultivated limbal stem cell transplantation in total limbal stem cell deficiency, Journal
 .of Ophthalmic and Vision Research, 2006

Darabi, M.R., Baharvand, H., Nasr, & Isfahani, M.H., The effect of voltage and duration of .560
 electrical stimulus on fusion and cleavage of electrofused two-cell bovine
 .embryos, Yakhteh, 2005

.Baharvand, H., Ashtiani, S.K., Embryonic stem cells: Concepts and potentials, Yakhteh, 2005 .561

Khezri, Sh Yakhteh,, Valojerdi, M.R., Sepehri, H., Baharvand, H.,The effect of basic fibroblast .562
growth factor on differentiation of mouse embryonic stem cells into
.cardiomyocytes,Yakhteh,2005

Zonouzi, R., Ashtiani, S.K., Hosseinkhani, S., Baharvand, H.,Kinetic properties of lactate .563
dehydrogenase extracted from mouse embryonic stem cell-derived cardiomyocytes and mouse
.neonatal cardiomyocytes: A comparative study,Yakhteh,2005

Baharvand, H., Soleimani, M., Gourabi, H.,The effect of low level laser irradiation on human .564
.embryonic stem cells,Yakhteh,2005

Eimani, H., Dalman, A., Sepehri, H., (...), Shahverdi, A., Samani, R.O.,Effect of DEHP (di-2- .565
ethyl hexyl-phthalate) on resumption of meiosis and in-vitro maturation of mouse oocytes and
.development of resulting embryos,Yakhteh,2005

.Baharvand, H.,Neuronal cells-derived human embryonic stem cells,Yakhteh,,2005 .566

Baharvand, H., Azarnia, M., Parivar, K., Ashtiani, S.K.,The effect of extracellular matrix on .567
.embryonic stem cell-derived cardiomyocytes,Journal of Molecular and Cellular Cardiology,2005

Baharvand, H., Power, J.M., Ozsarac, N., Matthaei, K.I.,Differentiation of embryonic stem .568
.cells into functional neurons in vitro,Neuroscience Research Communications,2004

Baharvand, H., Ashtiani, S.K., Valojerdi, M.R., (...), Taei, A., Sabour, D.,Establishment and in .569
vitro differentiation of a new embryonic stem cell line from human
.blastocyst,Differentiation,,2004

Baharvand, H., Matthaei, K.I.,Culture condition difference for establishment of new .570
embryonic stem cell lines from the C57BL/6 and BALB/c mouse strains,In Vitro Cellular and
.Developmental Biology - Animal,2004

Baharvand, H., Matthaei, K.I.,The ultrastructure of mouse embryonic stem cells,Reproductive .571
.BioMedicine Online,2003