



سیده نفیسه حسنی

دانشیار

محل خدمت: پژوهشگاه علوم سلولی (رویان)



سوابق تحصیلی			
مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۸۱	زیست شناسی سلولی و مولکولی	دانشگاه تهران
کارشناسی ارشد	۱۳۸۵	زیست شناسی سلولی و مولکولی	دانشگاه تهران
دکترای تخصصی	۱۳۹۰	علوم جانوری	دانشگاه علم و فرهنگ

اطلاعات استخدامی				
محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
پژوهشگاه رویان	مدیر گروه پژوهشی سلول‌های بنیادی	رسمی قطعی	تمام وقت	

سوابق اجرایی

عضو هیات علمی پژوهشگاه رویان

مدیر گروه پژوهشی زیست شناسی سلول‌های بنیادی پرتوان

مدیر تولید مرکز توسعه فناوری محصولات پیشرفته پزشکی رویان

جوایز و تقدیر نامه ها

در سال 1389 به دلیل نوآوری در تولید 150 رده سلول‌های بنیادی موشی موفق به کسب عنوان پژوهشگر برتر پژوهشگاه رویان گردید

در سال 1393 برنده پانزدهمین جشنواره بین المللی رویان با طرح "ایجاد و حفظ وضعیت پایه پرتوانی سلول‌های بنیادی رویانی با مهار مسیر TGF- β " شدند

در سال 1394 نیز مقاله ایشان جزو مقالات برتر اولین جشنواره ملی علوم و فناوری‌های سلول‌های بنیادی و پزشکی بازساختی انتخاب گردید

زمینه های تدریس

مسیرهای پیام‌رسانی سلولی

زیست شناسی سلولی

1. Khademi, N.S., Farivar, S., Bazrgar, M., (...), Haghparast, N., Rezaei Larijani, M., Aneuploidy Rate and Stemness in Low-Level Mosaic Human Embryonic Stem Cells in the Presence/Absence of Bortezomib, Paclitaxel, and Lapatinib, *Cells Tissues Organs*, 2024
2. Sabeti, M.A., Saqib Ihsan, M., Adami, D., (...), Salari Sedigh, H., Ghoddusi, J., Cell-Based Regenerative Endodontics for the Treatment of Irreversible Pulpitis: An In Vivo Investigation, *Journal of Endodontics*, 2024
3. Zarrabi, M., Shahrbaaf, 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
4. 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
5. Babaahmadi, M., Gholipour, N.M., Tayebi, B., (...), Eslaminejad, M.B., Hassani, S., & N., Clinical Evaluation of Collagen-Induced Arthritis in Female Lewis Rats: A Comprehensive Analysis of Disease Progression and Severity, *Cell Journal*, 2023
6. Naderi, S., Shiri, Z., Zarei, 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
7. Soleymani, Goloujeh, M., Shekari, F., Hassani, S., N., Hajizadeh, Saffar, E., Preconditioning with IFN-gamma and LPS improves the immunomodulatory potential of bone marrow-derived clonal mesenchymal stem cells, *Health Biotechnology and Biopharma*, 2023
8. 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
9. 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
10. Barati, M., Ebrahimi, M., Hassani, S., & N., Specification of Hemato-Endothelial-Like Structures and Generation of Hematopoietic Progenitor Cells from Human Pluripotent Stem Cells, *Journal of Mazandaran University of Medical Sciences*, 2023
11. Zare, M., Mirhoseini, S.Z., Ghovvati, S., (...), Baharvand, H., Hassani, S., & N., The constitutively active pSMAD2/3 relatively improves the proliferation of chicken primordial germ cells, *Molecular Reproduction and Development*, 2023
12. Zare, M., Mirhoseini, S.Z., Hassani, S.N., Ghovvati, S., Signaling Roadmap Modulating Chicken Primordial Germ Cells Proliferation and Self-Renewal, *Iranian Journal of Applied Animal Science*, 2023
13. 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
14. Hassani, S., N., Totonchi, M., Sharifi, Zarchi, A., (...), Scholer, H.R., Baharvand, H., Correction to: Inhibition of TGFbeta Signaling Promotes Ground State Pluripotency (*Stem Cell Reviews and Reports*, (2014), 10, 1, (16-30), 10.1007/s12015-013-9473-0), *Stem Cell Reviews and Reports*, 2022

- Taleahmad, S., Salari, A., Samadian, A., (...), Baharvand, H., Hosseini Salekdeh, G., BMP4 .15 signaling plays critical roles in self-renewal of R2i mouse embryonic stem cells, *Biochemical and Biophysical Research Communications*, 2022
- Pakzad, M., Hassani, S.N., Abbasi, F., (...), Dominici, M., Baharvand, H., A Roadmap for the .16 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
- Khani, F., Nafian, S., Mollamohammadi, S., (...), Soleimanpour, & Lichaei, H.R., Salekdeh, .17 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
- Tayebi, B., Babaahmadi, M., Pakzad, M., (...), Hassani, S., N., Hajizadeh, Saffar, E., Standard .18 toxicity study of clinical-grade allogeneic human bone marrow-derived clonal mesenchymal stromal cells, *Stem Cell Research and Therapy*, 2022
- Barati, M., Akhondi, M., Mousavi, N.S., (...), Ebrahimi, M., Hassani, S., & N., Pluripotent Stem .19 Cells: Cancer Study, Therapy, and Vaccination, *Stem Cell Reviews and Reports*, 2021
- Moeinvaziri, F., Shojaei, A., Haghparast, N., (...), Hassani, S., & N., Baharvand, H., Towards .20 maturation of human otic hair cell-like cells in pluripotent stem cell-derived organoid transplants, *Cell and Tissue Research*, 2021
- Navabi, R., Negahdari, B., Hajizadeh, & Saffar, E., (...), Tahamtani, Y., Baharvand, H., Combined .21 therapy of mesenchymal stem cells with a GLP-1 receptor agonist, liraglutide, on an inflammatory-mediated diabetic non-human primate model, *Life Sciences*, 2021
- Dehkordi, S.N., Khani, F., Hassani, S.N., (...), Soleimanpour, & Lichaei, H.R., Salekdeh, G.H., The .22 contribution of Y chromosome genes to spontaneous differentiation of human embryonic stem cells into embryoid bodies in vitro, *Cell Journal*, 2021
- Taei, A., Rasooli, P., Braun, T., Hassani, S., & N., Baharvand, H., Signal regulators of human .23 naïve pluripotency, *Experimental Cell Research*, 2020
- Rassouli, H., Khalaj, M., Hassani, S., & N., (...), Salekdeh, G.H., Baharvand, H., Gene expression .24 patterns of Royan human embryonic stem cells correlate with their propensity and culture systems, *Cell Journal*, 2020
- Poursaeid, S., Kalbassi, M., R., Hassani, S., N., Baharvand, H., Isolation, characterization, in .25 vitro expansion and transplantation of Caspian trout (*Salmo caspius*) type a spermatogonia, *General and Comparative Endocrinology*, 2020
- Firoozi, S., Pahlavan, S., Ghanian, M., & H., (...), Soleimani, M., Baharvand, H., Biochemical and .26 Biophysical Research Communications, *Biochemical and Biophysical Research Communications*, 2020
- Taei, A., Samadian, A., Ghezeli, Ayagh, Z., (...), Hassani, S., N., Baharvand, H., Suppression of .27 p38-MAPK endows endoderm propensity to human embryonic stem cells, *Biochemical and Biophysical Research Communications*, 2020
- Taei, A., Kiani, T., Taghizadeh, Z., (...), Hassani, S., & N., Baharvand, H., Temporal activation of .28 LRH-1 and RAR-gamma in human pluripotent stem cells induces a functional naïve-like state, *EMBO Reports*, 2020
- Mirzaei, & Seresht, B., Bazrgar, M., Sheidai, M., (...), Masoudi, N.S., Mollammohammadi, .29 S., Chromosomal instability reducing effect of paclitaxel and lapatinib in mouse embryonic stem cells with chromosomal abnormality, *Molecular Biology Reports*, 2020
- Ramezankhani, R., Torabi, S., Minaei, N., (...), Baharvand, H., Hajizadeh, & Saffar, E., Two .30 Decades of Global Progress in Authorized Advanced Therapy Medicinal Products: An Emerging Revolution in Therapeutic Strategies, *Frontiers in Cell and Developmental Biology*, 2020
- Bahrebar, K., Valojerdi, M.R., Esfandiari, F., (...), Hassani, S., & N., Baharvand, H., Human .31 embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure, *World Journal of Stem Cells*, 2020
- Taleahmad, S., Alikhani, M., Mollammohammadi, S., (...), Baharvand, H., Salekdeh, .32

- G.H., Inhibition of Human Y Chromosome Gene, SRY, Promotes Naïve State of Human Pluripotent Stem Cells, *Journal of Proteome Research*, 2019
- Hassani, S. ,& N., Moradi, S., Taleahmad, S., Braun, T., Baharvand, H., Transition of inner cell mass to embryonic stem cells: mechanisms, facts, and hypotheses, *Cellular and Molecular Life Sciences*, 2019
- 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
- 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
- Farzaneh, M., Zare, M., Hassani, S. ,& N., Baharvand, H., Effects of various culture conditions on pluripotent stem cell derivation from chick embryos, *Journal of Cellular Biochemistry*, 2018
- Yakhkeshi, S., Rahimi, S., Sharafi, M., (...), Shahverdi, A., Baharvand, H., In vitro improvement of quail primordial germ cell expansion through activation of TGF-beta signaling pathway, *Journal of Cellular Biochemistry*, 2018
- Taleahmad, S., Hassani, S.N., Salekdeh, G.H., Baharvand, H., Metabolic signature of pluripotent stem cells, *Cell Journal*, 2018
- Rezaeeyan, H., Hassani, S.N., Barati, M., Shahjahani, M., Saki, N., PD-1/PD-L1 as a prognostic factor in leukemia, *Journal of Hematopathology*, 2017
- Farzaneh, M., Hassani, S. ,& N., Mozdziak, P., Baharvand, H., Avian embryos and related cell lines: A convenient platform for recombinant proteins and vaccine production, *Biotechnology Journal*, 2017
- Taleahmad, S., Mirzaei, M., Samadian, A., (...), Salekdeh, G.H., Baharvand, H., Low focal adhesion signaling promotes ground state pluripotency of mouse embryonic stem cells, *Journal of Proteome Research*, 2017
- Hassani, S.N., Rezaeeyan, H., Ghodsi, A., Saki, N., Restoration of natural killer cell cytotoxicity in the suppressive tumor microenvironment: novel approaches to treat AML, *Journal of Hematopathology*, 2017
- Totonchi, M., Hassani, S. , N., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H., Blockage of the Epithelial-to-Mesenchymal Transition Is Required for Embryonic Stem Cell Derivation, *Stem Cell Reports*, 2017
- Hendudari, F., Piryaei, A., Hassani, S. ,& N., Darbandi, H., Bayat, M., Combined effects of low-level laser therapy and human bone marrow mesenchymal stem cell conditioned medium on viability of human dermal fibroblasts cultured in a high-glucose medium, *Lasers in Medical Science*, 2016
- Mohammadi, A., Attari, F., Babapour, V., (...), Shahverdi, A., Baharvand, H., Generation of rat embryonic germ cells via inhibition of TGFbeta and MEK pathways, *Cell Journal*, 2016
- Taleahmad, S., Mirzaei, M., Parker, L.M., (...), Baharvand, H., Salekdeh, G.H., Proteome Analysis of Ground State Pluripotency, *Scientific Reports*, 2015
- Hassani, S. ,& N., Totonchi, M., Gourabi, H., Scholer, H.R., Baharvand, H., Signaling roadmap modulating naive and primed pluripotency, *Stem Cells and Development*, 2014
- Hassani, S. , N., Totonchi, M., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H., Inhibition of TGFbeta Signaling Promotes Ground State Pluripotency, *Stem Cell Reviews and Reports*, 2014
- Attari, F., Sepehri, H., Ansari, H., (...), Shahverdi, A., Baharvand, H., Efficient induction of pluripotency in primordial germ cells by dual inhibition of TGF-beta and ERK signaling pathways, *Stem Cells and Development*, 2014
- Hassani, S. ,& N., Pakzad, M., Asgari, B., Taei, A., Baharvand, H., Suppression of transforming growth factor beta signaling promotes ground state pluripotency from single blastomeres, *Human Reproduction*, 2014

- Taei, A., Hassani, S. , N., Eftekhari , Yazdi, P., (...), Gourabi, H., Baharvand, H.,Enhanced .51 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
- Baharvand, H., Hassani, S. , & N,A new chemical approach to the efficient generation of .52 .mouse embryonic stem cells,Methods in Molecular Biology,2013
- Zahabi, A., Shahbazi, E., Ahmadi, H., (...), Salekdeh, G.H., Baharvand, H.,A new efficient .53 protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal .disease induced pluripotent stem cells,Stem Cells and Development,2012
- Moraveji, S. , & F., Attari, F., Shahverdi, A., (...), Aghdami, N., Baharvand, H.,Inhibition of .54 glycogen synthase kinase-3 promotes efficient derivation of pluripotent stem cells from neonatal .mouse testis,Human Reproduction,2012
- Hassani, S. ,& N., Totonchi, M., Farrokhi, A., (...), Gourabi, H., Baharvand, H.,Simultaneous .55 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
- Akhlaghpour, A., Taei, A., Ghadami, S.A., (...), Baharvand, H., Hassani, S. ,& N.,Chicken .56 .Interspecies Chimerism Unveils Human Pluripotency,Stem Cell Reports,2011
- Larijani, M.R., Seifinejad, A., Pournasr, B., (...), Salekdeh, G.H., Baharvand, H.,Long-term .57 maintenance of undifferentiated human embryonic and induced pluripotent stem cells in .suspension,Stem cells and development,2011
- Pakzad, M., Totonchi, M., Taei, A., (...), Hassani, S.N., Baharvand, H.,Presence of a ROCK .58 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
- Seifinejad, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Generation of human .59 induced pluripotent stem cells from a Bombay individual: Moving towards universal-donor red .blood cells,Biochemical and Biophysical Research Communications,2010