



## سحر کیانی

دانشیار

محل خدمت: پژوهشگاه علوم سلولی (رویان)



### سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
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### اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
پژوهشگاه رویان	عضو هیأت علمی	رسمی قطعی	تمام وقت	

### سوابق اجرایی

عضو هیأت علمی پژوهشگاه رویان

### مقالات در همایش ها

Shanehsazzadeh, F., Rouhi, S., Ahmadvand, T., (...), Kiani, S., Fardmanesh, M., A Novel, Low Cost and Versatile Fabrication Method of Flexible Multi-electrode Array for Spinal Cord Stimulation, 27th National and 5th International Iranian Conference of Biomedical Engineering, 2020, 11 26

### مقالات در نشریات

- Alizadeh, S.D., Jalalifar, M., R., Ghodsi, Z., (...), Harrop, J., Rahimi, Movaghar, V. Reprogramming of astrocytes to neuronal-like cells in spinal cord injury: a systematic review, Spinal Cord, 2024, 24
- Boskabady, M.H., Jandaghi, P., Kiani, S., Hasanzadeh, L. Antitussive effect of Carum copticum in guinea pigs, Journal of Ethnopharmacology, 2005, 2 10
- Najar, & Asl, M., Halvaei, M., Abolhasani, R., (...), Kazemi Ashtiani, M., Baharvand, H., Enhanced development of human pluripotent stem cell-derived cerebral organoids via an electrical stimulation bioreactor, Chemical Engineering Journal, 2024, 5 1
- Shakeri, F., Kiani, S., Rahimi, G., Boskabady, M.H., Anti-inflammatory, antioxidant, and immunomodulatory effects of Berberis vulgaris and its constituent berberine, experimental and clinical, a review, Phytotherapy Research, 2024
- Sorouri, F., Hosseini, P., Sharifzadeh, M., Kiani, S., Khoobi, M., In Situ Cross-Linkable Hyaluronic-Ferulic Acid Conjugate Containing Bucladesine Nanoparticles Promotes Neural Regeneration after Spinal Cord Injury, ACS Applied Materials and Interfaces, 2023, 9 13

Sabourian, P., Frounchi, M., Kiani, S., (...), Heydari, Y., Ashraf, S.S., Targeting reactive astrocytes by pH-responsive ligand-bonded polymeric nanoparticles in spinal cord injury, *Drug Delivery and Translational Research*, 2023 6 1

Sorouri, F., Azimzadeh Asiabi, P., Hosseini, P., (...), Amin, M., Khoobi, M., Enrichment of carbopol gel by natural peptide and clay for improving the burn wound repair process, *Polymer Bulletin*, 2023 5 1

Sorouri, F., Gholibegloo, E., Mortezaazadeh, T., (...), Firoozpour, L., Khoobi, M., Tannic acid-mediated synthesis of flower-like mesoporous MnO<sub>2</sub> nanostructures as T1-T2 dual-modal MRI contrast agents and dual-enzyme mimetic agents, *Scientific Reports*, 2023 12 1

Mirzaalikhani, Y., Eslami, N., Izadi, A., Shekari, F., Kiani, S., Spinal Cord Injury Affects Gene Expression of Transmembrane Proteins in Tissue and Release of Extracellular Vesicle in Blood: In Silico and In Vivo Analysis, *Cell Journal*, 2023 11 1

Rouhi, S., Rahmani, S., Shanesazzadeh, F., (...), Fardmanesh, M., Kiani, S., Stimulation of spinal cord according to recorded theta hippocampal rhythm during rat move on treadmill, *Biomedizinische Technik*, 2023

Rahimi, G., Mirsadeghi, S., Rahmani, S., (...), Rahimi, & Movaghar, V., Kiani, S., Oral administration of lithium chloride ameliorate spinal cord injury-induced hyperalgesia in male rats, *PharmaNutrition*, 2022 9 1

Hosseini, P., Mirsadeghi, S., Rahmani, S., (...), Rahimi, & Movaghar, V., Kiani, S., Dopamine Receptors Gene Expression Pattern and Locomotor Improvement Differ Between Female and Male Zebrafish During Spinal Cord Auto Repair, *Zebrafish*, 2022 8 1

Nemati, S., Seiedrazizadeh, Z., Simorgh, S., (...), Pakdel, F., Satarian, L., Mouse Degenerating Optic Axons Survived by Human Embryonic Stem Cell-Derived Neural Progenitor Cells, *Cell Journal*, 2022 3 1

Hajinasrollah, M., Sharifi, D., Kiani, S., (...), Mirsadeghi, E., Mokhtari, R., Establishment of Spinal Cord Injury Model in Nonhuman Primate (Rhesus Macaca Mulatta) with Royan Impactore Device, *Journal of Veterinary Research*, 2021 4 1

Ranjbarvaziri, S., Kiani, S., Akhlaghi, A., (...), Baharvand, H., Aghdami, N., Corrigendum to "Quantum dot labeling using positive charged peptides in human hematopoietic and mesenchymal stem cells" [*Biomaterials* 32 (2011) 5195-5205] (*Biomaterials*, *Biomaterials*, 2021 3 1

Jaberi, R., Mirsadeghi, S., Kiani, S., In vitro characterization of subventricular zone isolated neural stem cells, from adult monkey and rat brain, *Molecular Biology Reports*, 2021 2 1

Mirsadeghi, S., Kiani, S., Voltage and ligand-gated ion channels appearance and function in neurodevelopment, *Factors Affecting Neurodevelopment: Genetics, Neurology, Behavior, and Diet*, 2021 1 1

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

Zarei, & Kheirabadi, M., Sadrosadat, H., Mohammadshirazi, A., (...), Khayyatan, F., Kiani, S., Human embryonic stem cell-derived neural stem cells encapsulated in hyaluronic acid promotes regeneration in a contusion spinal cord injured rat, *International Journal of Biological Macromolecules*, 2020 4 1

Sharifzad, F., Mardpour, S., Mardpour, S., (...), Hamidieh, A.A., Ebrahimi, M., HSP70/IL-2 treated NK cells effectively cross the blood brain barrier and target tumor cells in a rat model of induced glioblastoma multiforme, (*2020-4-1*, 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

Zarei, Kheirabadi, M., Mirsadeghi, S., Vaccaro, A.R., Rahimi, Movaghar, V., Kiani, S., Protocol 22

for purification and culture of astrocytes: useful not only in 2 days postnatal but also in adult rat brain, *Molecular Biology Reports*, 2020 3 1

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

Sabourian, P., Yazdani, G., Ashraf, S.S., (...), Kiani, S., Kakkar, A., Effect of physico-chemical properties of nanoparticles on their intracellular uptake, *International Journal of Molecular Sciences*, 2020 11 1

Zarei ,& Kheirabadi, M., Hesaraki, M., Kiani, S., Baharvand, H., In vivo conversion of rat 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

Sharifzad, F., Yasavoli ,& Sharahi, H., Mardpour, S., (...), Verdi, J., Hamidieh, A.A., Neuropathological and genomic characterization of glioblastoma-induced rat model: How similar is it to humans for targeted therapy?, *Journal of Cellular Physiology*, 2019 12 1

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

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

Valizadeh ,& Arshad, Z., Shahbazi, E., Hashemizadeh, S., (...), Jangkhah, M., Kiani, S., In vitro differentiation of neural-like cells from human embryonic stem cells by a combination of dorsomorphin, XAV939, and A8301, 2018-3-1, 2018 3 1

Mirsadeghi, S., Shahbazi, E., Hemmesi, K., (...), Mirnajafi ,& Zadeh, J., Kiani, S., Development of membrane ion channels during neural differentiation from human embryonic stem cells, *Biochemical and Biophysical Research Communications*, 2017 9 9

Pachenari, N., Kiani, S., Javan, M., Inhibition of glycogen synthase kinase 3 increased subventricular zone stem cells proliferation, *Biomedicine and Pharmacotherapy*, 2017 9 1

Nikmehr, B., Bazrafkan, M., Hassanzadeh, G., (...), Mokhtari, T., Abolhassani, F., The correlation of gene expression of inflammasome indicators and impaired fertility in rat model of spinal cord injury: A time course study, *Urology Journal*, 2017 11 1

Gholami, M., Hafezian, S.H., Rahimi, G., (...), Shetabi, H., Zargooshi, J., Allele specific-PCR and melting curve analysis showed relatively high frequency of beta-casein gene A1 allele in Iranian Holstein, Simmental and native cows, *Cellular and Molecular Biology*, 2016

Rostami, A.A., Mohseni Kouchesfahani, H., Kiani, S., Fakheri, R., Iron oxide nanoparticles reduced retinoic acid induced- neuronal differentiation of mouse embryonic stem cells by ROS generation, *Archives of Iranian Medicine*, 2015 9 1

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 8 12

Malakoutikhah, M., Satarian, L., Kiani, S., Javan, M., Alpha-Tocopherol increases the proliferation of induced pluripotent stem cell derived neural progenitor cells, *Physiology and Pharmacology*, 2015 6 1

Mirakhori, F., Zeynali, B., Kiani, S., Baharvand, H., Brief azacytidine step allows the conversion of suspension human fibroblasts into neural progenitor-like cells, *Cell Journal*, 2015 3 1

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 12 1

Nemati, S., Jabbari, R., Hajinasrollah, M., (...), Rezaee, O., Kiani, S., Transplantation of adult 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 .40 pluripotent stem cell-derived neural progenitors on collagen scaffolds varied in freezing .temperature and laminin concentration,Cell Journal,2014
- Pazhoohan, S., Satarian, L., Asghari, A. , A., (...), Mani, A. , R., Javan, M,Valproic acid .41 attenuates disease symptoms and increases endogenous myelin repair by recruiting neural stem cells and oligodendrocyte progenitors in experimental autoimmune .encephalomyelitis,Neurodegenerative Diseases,2013
- Satarian, L., Javan, M., Kiani, S., (...), Mirnajafi ,& Zadeh, J., Baharvand, H,Engrafted human .42 induced pluripotent stem cell-derived anterior specified neural progenitors protect the rat .crushed optic nerve,PloS one,2013
- Esfandiari, F., Fathi, A., Gourabi, H., (...), Nemati, S., Baharvand, H.,Glycogen synthase .43 kinase-3 inhibition promotes proliferation and neuronal differentiation of human-induced .pluripotent stem cell-derived neural progenitors,Stem Cells and Development,2012 11 20
- Ranjbarvaziri, S., Kiani, S., Akhlaghi, A., (...), Baharvand, H., Aghdami, N.,Quantum dot labeling .44 using positive charged peptides in human hematopoetic and mesenchymal stem .cells,Biomaterials,2011 8 1
- Rahjouei, A., Kiani, S., Zahabi, A., (...), Hashemi, M., Baharvand, H.,Interactions of human .45 embryonic stem cell-derived neural progenitors with an electrospun nanofibrillar surface in .vitro,International Journal of Artificial Organs,2011 7 1
- Ghasemi , Mobarakeh, L., Prabhakaran, M.P., Morshed, M., (...), Al , Deyab, S.S., Ramakrishna, .46 S.,Application of conductive polymers, scaffolds and electrical stimulation for nerve tissue .engineering,Journal of Tissue Engineering and Regenerative Medicine,2011 4 1
- Nemati, S., Hatami, M., Kiani, S., (...), Alaei, S., Baharvand, H.,Long-term self-renewable .47 feeder-free human induced pluripotent stem cell-derived neural progenitors,Stem Cells and .Development,2011 3 1
- Shahbazi, E., Kiani, S., Gourabi, H., Baharvand, H,Electrospun nanofibrillar surfaces promote .48 neuronal differentiation and function from human embryonic stem cells,Tissue Engineering - Part .A,2011 12 1
- Kiani, S., Mirnajafi ,& Zadeh, J., Shahbazi, E., Baharvand, H.,Existence of a delayed rectifier K<sup>+</sup> .49 .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 .50 cells differentiation into oligodendrocyte progenitors and transplantation in a rat model of optic .chiasm demyelination,PLoS ONE,2011 11 18
- Zare ,& Mehrjardi, N., Khorasani, M.T., Hemmesi, K., (...), Barzin, J., Baharvand, .51 H.,Differentiation of embryonic stem cells into neural cells on 3D poly (D, L-lactic acid) scaffolds .versus 2D cultures,2011-10-1,2011 10 1
- Fathi, A., Hatami, M., Hajihosseini, V., (...), Baharvand, H., Salekdeh, G.H.,Comprehensive .52 gene expression analysis of human embryonic stem cells during differentiation into neural .cells,PLoS ONE,2011
- Hatami, M., Mehrjardi, N.Z., Kiani, S., (...), Shahverdi, A., Baharvand, H,Human embryonic .53 stem cell-derived neural precursor transplants in collagen scaffolds promote recovery in injured .rat spinal cord,Cytotherapy,2009
- Baharvand, H., Mehrjardi, N. , Z., Hatami, M., (...), Rao, M., Haghghi, M. , M.,Neural .54 differentiation from human embryonic stem cells in a defined adherent culture .condition,International Journal of Developmental Biology,2007
- Boskabady, M.H., Kiani, S., Azizi, H.,Relaxant effect of Cuminum cyminum on guinea pig .55 .tracheal chains and its possible mechanism,Indian Journal of Pharmacology,2005 4 1
- Boskabady, M.H., Kiani, S., Haghiri, B.,Relaxant effects of Ocimum basilicum on guinea pig .56 .tracheal chains and its possible mechanism,Daru,2005

- Boskabady, M.H., Kiani, S., Jandaghi, P., Ziaei, T., Zarei, A., Antitussive effect of *Nigella sativa* .57  
.in guinea pigs, 2004-7-1, 2004 7 1
- Boskabady, M.H., Shirmohammadi, B., Jandaghi, P., Kiani, S., Possible mechanism(s) for .58  
relaxant effect of aqueous and macerated extracts from *Nigella sativa* on tracheal chains of  
.guinea pig, BMC Pharmacology, 2004 2 25
- Boskabady, M.H., Kiani, S., Jandaghi, P., Ziaei, T., Zarei, A., Comparison of antitussive effect .59  
.of *Nigella sativa* with codeine in guinea pig, Iranian Journal of Medical Sciences, 2003 9 1

## پایان نامه ها

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۱. بررسی اثر فرولیک اسید و بوکلادزین به همراه زیست ماده اصلاح شده بر پایه ی هیالورونیک اسید در ترمیم  
آسیب نخاعی
۲. پیوند اتولوگ سلول های بنیادی عصبی جدا شده از ناحیه تحت بطنی به موش صحرایی با ضایعه نخاعی له  
شدگی در فاز مزمن