



سحر کیانی

دانشیار

محل خدمت: پژوهشگاه علوم سلولی (رویان)



سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
دکترای تخصصی	۱۳۸۹	فیزیولوژی	تربیت مدرس

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
- 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 MnO₂ 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⁺ .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., Haghighi, 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

-
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