

Resume

Abbas Ebrahimi-Kalan, Ph.D.

Assistant professor of Anatomical Sciences

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Depart. Of Neurosciences and Cognition, Tabriz University of Medical Sciences, Tabriz, Iran

Educational History:

Ph.D. Anatomical Sciences, Tabriz University of Medical Science, Tabriz, Iran. ۲۰۰۹-۲۰۱۴

Thesis: Expression of Lipocalin ۲ in experimental model of Multiple sclerosis in mouse after MS ۲ treatment

M.Sc. Anatomical Sciences, Tabriz University of Medical Science, Tabriz, Iran. ۲۰۰۷-۲۰۰۸

Thesis: Study of the effects of Ginseng on busulfan-induced disorder on germinal epithelium and semen parameters

B.Sc. Radiology, Tabriz University of Medical Sciences, Tabriz, Iran. ۲۰۰۰-۲۰۰۵

Research Interest: Neuroscience, Regenerative medicine, Reproductive Biology, Anatomical Sciences

Teaching Experiences:

Molecular and Cellular Biology, Anatomy/Neuroanatomy, Histology/Neurohistology and Embryology/Neuroembryology in Tabriz University of Medical Science, Tabriz, Iran for PhD students of Neurosciences, Molecular Medicine, Biotechnology, MSc students of: Nanotechnology, Biomedical Engineering Medical, Dentistry, Medical and paramedical students.

Job experience: Emergency of radiology of Emam Khomeini hospital, Tabriz –Iran, Assistant Prof. of Anatomical Sciences (Neurosciences).

Publications:

۱. Balal Brazvan, Abbas Ebrahimi-Kalan, Kobra Velaei, Ahmad Mehdipour, Zeynab Aliyari serej, Ayyub Ebrahimi, Mohammad Ghorbani, Omid Cheraghi, Hojjatollah Nozad Charoudeh, **Telomerase activity and telomere on stem progeny senescence**, <https://doi.org/10.1016/j.biopha.2018.02.073>.
۲. Elham Karimi-Sales ۱, Sajad Jeddi ۲, Abbas Ebrahimi-Kalan ۳, Mohammad Reza Alipour ۱*, **Trans-chalcone enhances insulin sensitivity through the miR۳۴a/SIRT۱ pathway**, Iran J Basic Med Sci ۲۰۱۸; ۲۱:۳۵۹-۳۶۳. doi: 10.22038/IJBMS.2018.24300.6.63
۳. Forough Alemi Serej^۱, Mohammad Pourhassan-Moghaddam^۲, Mohammad Ebrahimi kalan^۳, Ahmad Mehdipour^۴, Zeynab Aliyari Serej^۵, **Abbas Ebrahimi-Kalan^{۱,۳*}. Targeting the PI۳K/Akt/mTOR signaling pathway: Applications of nanotechnology**, Crescent Journal of Medical and Biological Sciences. Vol. ۵, No. ۱, January ۲۰۱۸, ۷-۱۳.
۴. Zeynab Aliyari Serej, **Abbas Ebrahimi Kalan**, Ahmad Mehdipour, Hojjatollah Nozad Charoudeh,* **Regulation and roles of CD۲۶/DPPIV in hematopoiesis and diseases**, Biomedicine & Pharmacotherapy ۹۱ (۲۰۱۷) ۸۸-۹۴.

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Depart. Of Neurosciences and Cognition, Tabriz University of Medical Sciences, Tabriz, Iran

Asghar Tofighi, Abbas Ebrahimi Kalan, Bahram Jamali Qarakhanlou, MYOCARDIAL DAMAGE AND THE PROTECTIVE EFFECTS OF RESVERATROL AND AEROBIC EXERCISE IN COMBINATION ON STRESS OXIDATIVE AND DELETERIOUS CARDIAC FUNCTION IN EXPERIMENTAL MODEL OF ACUTE MYOCARDIAL INFARCTION. Pharmacophore, 8(7S) 2017, e-1173107, Pages 8.

۵. Kazem Nejati-Koshki, Younes Pilehvar-Soltanahmadi, Effat Alizadeh, **Abbas Ebrahimi-Kalan**, Yousef Mortazavi & Nosratollah Zarghami,. **Development of Emu Oil-loaded PCL/Collagen Bioactive Nanofibers for Proliferation and Stemness Preservation of Human Adipose-derived Stem Cell: Possible Application in Regenerative Medicine**, Drug Development and Industrial Pharmacy journal 2017.
۶. MohammadReza Alizadeh-Ghodsi, Ali Zavvari, **Abbas Ebrahimi-Kalan***, Mohammad Reza Shiri-Shahsavari, Bahman Yousefi, **The Hypothetical Roles of Arsenic in Multiple Sclerosis by Induction of Inflammation and Aggregation of Tau Protein: A commentary**, Nutritional Neuroscience. 2018 Feb; 21(2):92-96.
۷. Mohammad Reza Shiri-Shahsavari, Abbas Mirshafiee, Karim Parastouei, **Abbas Ebrahimi-Kalan**, Saeed Yekaninejad, Farid Soleymani, Reza Chahardoli, Ali Akbar Saboor-Yaraghi, **A novel combination of docosahexaenoic acid, vitamin A and D increase PPAR γ gene expression and reduce Tbet gene expression, serum IFN γ and clinical score in Experimental Autoimmune Encephalomyelitis**, J Mol Neurosci 2017 Dec 19; 60(4):498-508. Epub 2017 Sep 19.
۸. **Abbas Ebrahimi-Kalan**, Shahram Ahmadian, Hamid Tayefi nasrabadi, Mohammad Pourhassan-Moghaddam, **High throughput detection of telomerase expression by gold nanoprobe assay (nano- TRAP assay): An alternative method to conventional method of telomerase detection**, Molecular Medicine Journal 2010, 1(1), 1-5.
۹. *Bahram Jamali Qarakhanlou¹, Abbas Ebrahimi Kalan², Asghar Tofighi^{3*}, Effect of resveratrol and aerobic exercise on some cardiovascular risk factors in rats with acute myocardial infarction*, Journal of Shahid Sadoughi University of Medical Sciences, Vol. 20, No. 6, Sep 2017, 501-511.
۱۰. **Abbas Ebrahimi-Kalan**, Jafar Soleimani Rad¹, Laya Kafami^{2, 3*}, Daryoush Mohammadnejad¹, Mehryar Habibi Roudkenar⁴, Amir Afshin Khaki¹, Zeynab Aliyari Serej, Amaneh Mohammadi Roushandeh⁵, * **MS¹ \downarrow Down-regulates Lipocalin² Expression in Spinal Cord Tissue in an Animal Model of Multiple Sclerosis in female C57BL/6**. (Iranian Biomedical Journal 14(4): 197-202 (October 2014)
۱۱. **Abbas Ebrahimi-Kalan**^{1, 2}, Jafar Soleimani Rad¹, Laya Kafami^{3, 4}, Daryoush Mohammadnejad, Amir Afshin Khaki¹, Amaneh Mohammadi Roushandeh⁵, * **MS¹ \downarrow , a marine herbal medicine acts as an immunosuppressive drug in Experimental Autoimmune Encephalomyelitis**. Iran Red Crescent Med J. 2014 July; 16(7): e16906.
۱۲. **Abbas Ebrahimi-Kalan**¹, Mehryar Habibi Roudkenar², Hamid Tayefi Nasrabadi¹, Raheleh Halabian³, Peyman Broki Milan¹, Armin zarrintan³, Amaneh Mohammadi

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- Roushandeh^{۱*}. **Down-regulation of Metallothionein ۱ and ۲ after exposure to EMF in mouse testis.** Iranian Biomedical Journal ۱۰ (۴): ۱۵۱-۱۵۶ (October ۲۰۱۱).
۱۲. **Abbas Ebrahimi-Kalan^۱**, Soleimani Rad Jafar, Roshangar Leila, Khaki Amir Afshin, Mohammadnejad Darioush. **Effect of ginsenoside as a phytoestrogen on busulfan-induced disorders in semen parameter.** Pharmaceutical Sciences, ۲۰۱۱, Vol.۱۷, No ۱, Page ۲۷- ۳۴.
۱۳. Ahmad Ali Ghanbari Hamid Taefee, **Abbas Ebrahimi-Kalan**, Vahab Ghanbari. **A rare case report of ima artery and brachiocephalic trunk.** Jurnal of Gilan University of medical science. journal of guilan university of medical sciences, No:۷۰, pages: ۸۹-۹۴ (۲۰۱۰).
۱۴. Amaneh Mohammadi-Roshandeh, **Abbas Ebrahimi-Kalan**, Mohammad Karimipour, **Abnormal origin of left accessory hepatic artery from superior mesenteric artery**, Iranian Journal of Physician & Laboratory, No.۳۰, Feb-Mar. ۲۰۰۸ (persian).
۱۵. Hafez Mohammad-hassanzadeh, Mohammad Salimi-asl, **Abbas Ebrahimi-Kalan**, Somayyeh Rahmanpour,: **Askmedline and methods of information retrieval in pubmed** , Iranian Journal of Physician & Laboratory, No.۲۹, Dec-Jau. ۲۰۰۸ (persian).

Conference papers:

۱. Ebrahimi-Kalan A, Mehdipour A, Aliyari Z, Neural regeneration in hypothalamus, second congress of Tissue engineering and Regenerative medicine of Iran ۲۰۱۰
۲. Neda yazdanfar, Fatemeh farokhi, **Abbas Ebrahimi-Kalan**, Negative feedback of Hypothalamus-Pituitary-Thyroid axis and Thyroid hormone transporters functions, Fourth Basic and clinical neuroscience congress, Dec ۲۰۱۰.
۳. Neda yazdanfar, Fatemeh farokhi, **Abbas Ebrahimi-Kalan**, Enhanced remyelination following ..., Fourth Basic and clinical neuroscience congress, Dec ۲۰۱۰
۴. **Ebrahimi-kalan Abbas***, Mohammadi-roshandeh Amaneh, soleimani-Rad Jafar, Kafami Laya, Habibi-Roudkenar Mehriyar. **Effects of herbal drugs on neurodegenerative diseases.** . ۱th Iranian anatomical sciences congress Guilan university of medical sciences,
۵. **Ebrahimi-kalan Abbas**, Salimi Zahara, Azimi M, Mohammadnejad Darioush*. **Tele evaluation of histopathological slides as a useful method in medical sciences.** ۱th Iranian anatomical sciences congress Guilan university of medical sciences, Rasht – Iran, ۹_۱۱ May/ ۲۰۱۲.
۶. **Ebrahimi-kalan Abbas**, Soleimani-rad Jafar, Kafami Laya, Habibi-roudkenar Mehriyar, Khaki Amir Aafshin, Mohammadnejad Darioush, Mohammadi-rashandeh Amaneh*. **Phytotherapy in experimental autoimmune encephalomyelitis as an animal model of Multiple sclerosis.** The 1st razavi international Neurotrauma congress, ۲۲- ۲۰ November ۲۰۱۱ (Razavi hospital-mashad-Iran).
۷. Milad ahmadi, Mahmoud lotifinia, **Abbas Ebrahimi-Kalan**, Ahmad ali lotfinia, Babak khodaei, Gorji Ali. **Contrast of NMDA receptor in neuroprotection and neurogenesis**

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- on traumatic brain injury**, The 1st international and 4th annual congress of neurogenetic diseases from bed to bench. ۲۳-۲۵ Nov. ۲۰۱۱
۱. Mohammadnejad D, Ebrahim S, Ramazani M, hamzeadeh A, Mohammadi-Roshandeh A, Akhtari Shojaei E, **Ebrahimi-kalan Abbas. Study of cetrorelix in inhibition of side effect of Vinblastin used in chemotherapy on germinal epithelium in mouse testis.** 1st Royan international congress on reproductive biomedicine. International journal of fertility & sterility, Vol ۲, supplement 1, summer ۲۰۱۱
 ۲. **Ebrahimi-kalan Abbas**, Soleimani Rad J, Roshangar L, Khaki A.A, Mohammadnejad D, Mehdipour A. Ginsenoside effects on DNA damage, and histopathological changes in testes of mice exposed to busulfan. Royan International Twin Congress (Acceptance) (Poster Presentation September ۲۰۱۱).
 ۳. Ghanbari M.A, Taefee H, **Ebrahimi-kalan Abbas**, Ghanbari V. **A rare case report of ima artery and brachiocephalic trunk.** Jurnal of Gilan University of medical science. Iranian Congress of Anatomical sciences, Hemdan-Iran, (۲۰۱۰)
 ۴. **Ebrahimi-kalan A**, Soleimani-rad J, Roshangar L, **The effects of ginseng as a phytoestrogen on busulfan-induced disorders in seminal parameters.** Royan international twin congress, August ۲۷-۲۹, ۲۰۰۹/ Tehran-Iran.
 ۵. **Ebrahimi-kalan A**, Maleki N, mohammad-hassanzadeh H.: **Effects of phytoestrogen on male infertility**, 4th Asian-Pacific international congress of anatomy & 1st Iranian Congress of Anatomical sciences, Tehran-Iran, ۱۷-۱۹ May ۲۰۰۸.
 ۶. Khaki A A. mohammadi_roshandeh A, **Ebrahimi-kalan A**, Sadeghzadeh-oskoee B, Khorshidi F: **A rare case report of bilateral absence of subscapular artery**, 4th Asian-Pacific international congress of anatomy & 1st Iranian Congress of **Anatomical** sciences, Tehran-Iran, ۱۷-۱۹ May ۲۰۰۸.
 ۷. Ebrahimi-kalan R, Ebrahimi-kalan A, **preparation and characterization of neodymium tin oxide pyrochlore nanocrystals by hydrothermal method.** 1st congress of crystallogy in Mashhad- Iran ۲۰۰۷-۲۰۰۷.
 ۸. Ebrahimi-kalan A, Soleimani Rad J, Roshangar L, Khaki A.A, Mohammadnejad D, Mehdipour A. **Ginsenoside effects on DNA damage, and histopathological changes in testes of mice exposed to busulfan.** (Royan international twin congress).

Selective Presentations

۱. **Ebrahimi-kalan A**, Soleimani-rad J, Kafami L, Habibi-roudkenar M, Khaki AA, Mohammadnejad D, Mohammadi-rashandeh A*. **Multiple sclerosis and Herbal Drugs.** The 1st international and 4th annual congress of neurogenetic diseases from bed to bench. ۲۳-۲۵ Nov. ۲۰۱۱
۲. **Ebrahimi-kalan A**, Soleimani-rad J, Roshangar L, Sajadian F, Mohamadnejad D.: **Effects of ginseng on busulfan-induced impairment in germinal epithelium.** Congress of barvary, nabarvari and laparascopy, Sharivare ۱۳۸۷, Tabriz-Iran.

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Depart. Of Neurosciences and Cognition, Tabriz University of Medical Sciences, Tabriz, Iran

۲. **Symposium of radiologist day**, Medical niversity of Tabriz, Tabriz-Iran, ۲۰۰۶.
۳. **Ebrahimi-kalan A**, Soleimani-rad J, Roshangar L, Sajadian F, Mohammadnejad D, Protective effects of ginseng against busulfan induced testicular damage in mice. IJRM journal vol ۷, winter ۲۰۰۹.
۴. **Ebrahimi-kalan A**, Soleimani-rad J, Roshangar L, Sajadian F, Mohammadnejad D, description of various stages of spermatogenesis cycle and its use in analysis of the cycle of the seminiferous epithelium and germ cell. IJRM journal vol ۷, winter ۲۰۰۹.
۵. Mohammadi-roshandeh A. Halabian R, Soleimani-Rad J, **Ebrahimi-kalan A**, Habibi-Rodkanar M, Express of lipocalin ۲ gene after exposure by EMF in mice testicular . Iranian Congress of Anatomical sciences, Hemdan-Iran, (۲۰۱۰).
۶. National conference on medical sciences education development. Sanandaj march ۱-۲ ۲۰۱۱.

Projects:

۱. Comparison of the effect of Mesenchymal Stem Cells with cerebrolysin loaded nanoparticles on expression of Immune Cell's transcription factors, MMP ۹ and INF γ in EAE an Animal Model of Multiple Sclerosis in C α BL/7 mice.
۲. The study of the effect of coated neurotrophic factors on the nanofibrous scaffold on the behavior of oligodendrocyte progenitor cells.
۳. Study of the effects of "Stachys schtschegleevii" medicinal herb on viability, and proliferation of bone marrow derived stromal cells of rat.
۴. The effect of STA-۲۱, a STAT۳ inhibitor and All Trans Retinoic Acid (ATRA) combinational therapy on Experimental autoimmune encephalomyelitis (EAE) as a mouse model of Multiple sclerosis.
۵. Expression of cannabinoid receptor (CB 1) in animal model of multiple sclerosis (EAE) treated with Hemp seed oil.
۶. The therapeutic effect of dimethyl fumarate and ruxolitinib combinational therapy on EAE mouse model as animal model of multiple sclerosis.
۷. Synthesis and Characterization of CDX Peptide modified fingolimod loaded chitosan nanoparticles for targeted drug delivery to the brain.
۸. The effect of spinal cord injury on theta rhythm variations and it's correlation with the proliferation of sub granular stem cells in the Hippocampus of Male Rats.
۹. Effect of administration of young rats' plasma on depression, serotonin and it's transporter, IDO pathway metabolites, and Apoptosis in prefrontal cortex of male old rats depression model.
۱۰. Fabrication of skin construct based on MSCs and transient gene therapy.
۱۱. Effect of oxytocin on MSCs and Schwann cell's behaviour loaded on nanofibrous scaffold.

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۱۲. Natural polymer-based electrospun mat as a mechanical support for schwann/MS cell's sheet: a potential wound dressing.
۱۳. Evaluation of the effects of ceftriaxone and N -acetylcysteine on recovery after spinal cord injury in Rat.
۱۴. The effect of spinal cord injury on motor skill learning, brain rhythms and dopamine level in primary motor cortex of rat.
۱۵. Effect of active vitamin D, with or without nanocarrier administration on ALCAM expression in animal model of MS in C Δ VBL/♀ female mice.
۱۶. Effect of physical activity and cognitive training on molecular and behavioral indices of memory in endothelin-1-induced hippocampal ischemia in male rats.
۱۷. The effects of trans-chalcone on mir-۱۴۹a and inflammatory cytokines expression levels as well as histopathological changes in the lung of high fat diet fed rats.
۱۸. The effect of hemp seed oil in combination with vitamins on mRNA expressions of transcription factors, CB ۲ and MMP ۹ and plasma cytokine levels in experimental autoimmune encephalomyelitis (EAE). (Finished in ۲۰۱۷).
۱۹. The effects of orthopedic platinum implantation and titanium on stem and aging of mesenchymal stem cell expression derived bone marrow of Rat.
۲۰. Synthesis of bioactive nanofibrous scaffold based on mesenchymal stem cells secreting recombinant GDNF protein in Repair of spinal cord injury (Started in ۲۰۱۶).
۲۱. Expression of lipocalin ۲ in experimental model of multiple sclerosis in mouse. Supervised by Prof. Soleimani and Dr Mohammadi. (Finished in ۲۰۱۴).
۲۲. Study of the effects of ginseng on busulfan-induced disorder on germinal epithelium and semen parameters. Supervised By Prof. Dr soleimani. (Finished in ۲۰۰۶).
۲۳. Design of applied anatomy educational package for medical students. Supervised by Owchi A (finished in ۲۰۱۷).

Honors and Awards:

۱. **The second place earned in the PhD.** Exam of Medical Education and Health Ministry of Iran. ۲۰۰۸.
۲. **The second place earned in the M.Sc.** Exam of Medical Education and Health Ministry of Iran. ۲۰۰۶.
۳. Award for **top educational procedure.** Design of Applied Anatomy Educational Package for Medical Students. Annual Motahari festival. (۲۰۱۱).
۴. Awards as the **annual talented student** in the country, December ۲۰۰۶.
۵. **Eight Golden medals** obtained in the ۱th, ۸th, ۹th, ۱۰th, ۱۱th and ۱۲th medical students sport Olympiads in the Esfahan, Kermanshah, Tehran and Tabriz, Esfahan of **Iran**.

Training courses, workshops attended and congress participation:

۱. Microfluidics and its application in stem cell and converging technologies, ۲۰۱۷.

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Depart. Of Neurosciences and Cognition, Tabriz University of Medical Sciences, Tabriz, Iran

۱. Transcranial direct current stimulation (tDCS), Tabriz University of Medical Sciences, Winter ۲۰۱۰.
۲. English for academic purpose: Writing, presenting research paper & communication, Tabriz University of Medical Sciences, ۲۰۱۰.
۳. Electrophoretic Techniques and staining method practical workshop, organized by: ۲th international Iranian congress of Physiology and Pharmacology at Tabriz University of medical sciences. ۲۴ August ۲۰۱۲.
۴. Western blotting Technique, practical workshop organized: ۲th international Iranian congress of Physiology and Pharmacology at Tabriz University of medical sciences. ۲۴ August ۲۰۱۲.
۵. Immunohistochemistry workshop (Lecturer). **Basic and clinical neuroscience congress.** In ۲۰۱۲, Tehran University of medical sciences.
۶. Handling of laboratory animals and methods of drug administration, sampling and anesthesia at laboratory animals. Tabriz University of medical science, March ۲۰۰۶.
۷. Tissue engineering, Iran University of medical science, May ۲۰۰۸.
۸. Scientific paper writing, Tabriz University of medical science, ۲۰۰۸.
۹. SPSS workshop, Tabriz University of medical sciences, ۲۰۰۸.
۱۰. Anatomical sciences and challenges, Tehran University of medical sciences, ۲۰۰۹.
۱۱. Integrated Education, Tehran university of medical sciences. ۲۰۱۱.
۱۲. Executive Committee of ۱st congress of Iranian society for reproductive Medicine, ۱۸ – ۲۰ April ۲۰۱۲, Tabriz – Iran.
۱۳. ۱st Iranian anatomical sciences congress Guilan university of medical sciences, Rasht – Iran, ۹_۱۱ May/ ۲۰۱۲.
۱۴. ۴th Congress on Reproductive Biomedicine & ۲th Congress on Stem Cell Biology & Technology.
۱۵. The first IT development congress, medical university of shahid beheshti, Tehran-Iran, ۲۰۰۶.

Professional Membership:

۱. Assistant professor of Dept. of Neurosciences and Cognition, TBZMED.
۲. Member of Multiple sclerosis team work.
۳. Member of talented student center of TBZMED.
۴. Member of Tabriz talent house, Tabriz, Iran.
۵. Member of Neurosciences Research Center of TBZMED.
۶. Member of Bonyad melli nokhbegan .
۷. Member of Interviewer team in PhD exam of health ministry.
۸. Member of Research Council of Faculty of Advanced Medical Sciences.
۹. Educational Chancellor of Dept. of Neurosciences and Cognition, TBZMED.

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-Dr. Mohammadi-Roushandeh Amaneh, Associated professor of Anatomy in Hamadan University of medical sciences, Hamadan, Iran. Email: dinachal@yahoo.com

-Dr. Kafami Laya, Assistance Professor of Immunology, Alborz University of Medical sciences, Karaj, Iran. Email: Lkafami@gmail.com

-Prof. Dr Mahdi Farhoudi, Prof.in neurology in Tabriz University of Medical Sciences, East Azerbaijan, Tabriz, Iran. farhoudi_m@yahoo.com