



CURRCULUM VITA

CV

Mohsen Alipour

Department of Physiology
Faculty of Medicine
Zanjan University of Medical Sciences
Zanjan, Iran

Phone: +98 241 3344301-3
Fax: +98 24133449553
E-mail: mohsen26@zums.ac.ir
alipourmohsen@yahoo.com

Personal Information

First name: Mohsen
Surname: Alipour
Birth Place: Birjand, Iran
Citizenship: Iranian
Married status: Married with 2 children

Education

BSc in Biology, Mashhad University, Mashhad, Iran, 1990
MSc in Physiology, Isfahan University of Medical Sciences, Isfahan, Iran, 1995
Ph.D in Physiology, Tabriz University of Medical Sciences, Tabriz, Iran, 2005
Visiting Researcher, Osaka Bioscience Institute (OBI), Osaka, Japan, 2003-2004

Teaching Experience

Teaching of different topics of Physiology for Undergraduate students (Medical, Dentistry Pharmacy, and Nursing and...).

Teaching of Renal, Gastrointestinal and Respiratory Physiology for postgraduate (MSc) students of Physiology and Medicinal Chemistry.

Teaching of Renal, Blood and Gastrointestinal physiology for PhD students of Biomaterial.

Teaching of Learning & Memory and Ischemia-Reperfusion for MSc and PhD students as theory and experimental.

Teaching of Physiology and pathophysiology of lung for PhD students of Molecular Medicine

Teaching of different topics of Biology for high school students.

Research Interests

Cardiovascular and Neurosciences

Research Fields

Oxidative stress, Ischemia – Reperfusion
Diet, exercise and atherosclerosis, Sleep
Passive avoidance Memory in animals
Apoptosis

Present Position

The Head of Department of Physiology, Zanjan University of Medical Sciences, Zanjan, Iran.

Publications

- 1-**Alipour M**, Gholami MR, Jafari Anarkooli I, Sohrabi D, Tajki J, Pourheidar M. Intraperitoneal Aminoguanidine Improves Sciatic Nerve Ischemia–Reperfusion Injury in Male Sprague-Dawley Rats. *Cellular and molecular neurobiology*. 2011; 31 (5): 765-773
- 2- **Alipour M**, Mohammadi M, Zarghami N, Ahmadiasl N. Influence of Chronic Exercise on Red Cell Antioxidant Defense, Plasma Malondialdehyde and Total Antioxidant Capacity in Hypercholesterolemic Rabbits. *J Sports Sci Med (JSSM)*. 2006; 5(4): 682 – 691.
- 3 - Mohammadi M, **Alipour M**, Alipour MR, Vatankhah AM. Effects of High Cholesterol Diet and Parallel Chronic Exercise on Erythrocyte Primary Antioxidant Enzymes and Plasma total Antioxidant Capacity in Dutch Rabbits. *Int J Endocrinolol Metab (IJEM)*. 2006; 4(1):30-40.
- 4- **Alipour M**, Salehi I, Farhad Ghadiri Soufi. Effect of Exercise on Diabetes-Induce Oxidative Stress in the Rat Hippocampus. *Iranian Red Crescent Medical Journal*. 2012; 14(4): 222-225.
- 5- Sohrabi D, **Alipour M**, Mellati A. Effect of Metronidazole on Spermatogenesis, Plasma Gonadotrophins and Testosterone in Male Rats. *IJPR*. 2007; 6 (4): 279-283.
- 6- **Alipour M**, Sohrabi D, Mellati A, Mohammadi M. Long-Term Exercise Effect on Plasma and Aorta Homocysteine and 15-F₂₁-Isoprostane Concentrations in the High Cholesterol-Induced Atherosclerosis in Rabbits. *International Journal of Medical and Biological Frontiers*. 2007; 15 (1-2) 77-88.
- 7- Heydarpour F, Mousavinasab SN, Nahidi AR, **Alipour M**, Rostami A, Heydarpour P. The Effect of Long-Term Exposure to Particulate Pollution on the Lung Function of Tehranian and Zanjanian Students. *Pak J Physiol*. 2007; 3(2):4-7.
- 8- Soufi FG, Farajnia S, Aslanabadi N, Ahmadiasl N, Alipour MR, **Alipour M**, Doustar Y, Abdolalizadeh J, Sheikhzadeh F. Long – term exercise training affects age – induced changes in HSP70 and apoptosis in rat heart. *Gen Physiol Biophys*. 2008; 27(4): 263-70.
- 9- Soufi FG, Mahmoudi M, Ghiassie SR, **Alipour M**. The Role of 12-week resistance training in preserving the heart against ischemia-reperfusion-induced injury. *Cardiol J*. 2011; 18 (2): 140–145.

- 10- Mellati A, Mazloomzadeh S, Anjomshoaa A, **Alipour M**, Karimi F, Mazloomi S, Kazemi SAN. Multiple Correlations Between Cord Blood Leptin Concentration and Indices of Neonatal Growth. Archives of Med Res. 2010; 41:26-32.
- 11- Alipour Mr, Khamnei S, Jalali L, Baiat AH, **Alipour M**. Evaluation of the role of soft palate on switching point from nasal to oronasal breathing during exercise in healthy non- athlete. J of Zanjan University of Medical Sci & Health Services. 2011; 19(74): 51-58. (In Persian)
- 12- **Alipour M**, Sohrabi D, Gholami MR, Jafarianarkooli I. The role of aminoguanidine on functional recovery of rat reperfused sciatic nerve. J of Zanjan University of Medical Sci & Health Services. 2011; 19(77): 9-12.
- 13- Alaei H, **Alipour M**. Dopaminergic effects on sleeping time. Journal of Isfahan Medical School. 1997; 15 (46): 33-41 (In Persian).
- 14- **Alipour M**, Alaei H. Evaluation of the effects of apomorphin and halopridol on sleep in rat. Journal of Zanjan Medical Sciences University and Health Services.1997; 5(20):45-52 (In Persian)
- 15- **Alipour M**, Alaei H. Interactive effects of apomorphin and halopridol drugs on spontaneous brain waves of rat in state of anesthesia. Journal of Zanjan Medical Sciences University and Health Services. 1998; 6 (23):10-17 (In Persian).
- 16- Fallah R, **Alipour M**. Study of brucellosis in health management refers in mazandaran and related with some of demographic factors. Journal of Zanjan Medical Sciences University and Health Services. 1998; 6 (25): 23-27(In Persian).
- 17 - **Alipour M**, Davoudi P, Davoudi Z. Effects of unripe grape juice (verjuice) on plasma lipid profile, blood pressure, malondialdehyde and total antioxidant capacity in normal, hyperlipidemic and hyperlipidemic with hypertensive human volunteers. Journal of Medicinal plants Research. 2012; 6 (44): 5672-5679.
- 18- Sarieh Ghasempour, Mohammad Ali Shokrgozar, Roghayeh Ghasempour, **Mohsen Alipour**. The effect of Urea and Polyethylene glycol coated iron oxide nanorods on viability of mouse fibroblast. Journal of Zanjan Medical Sciences University and Health Services. 2013; 21 (88): 22-35 (In Persian).
- 19- Sarieh Ghasempour, Mohammad Ali Shokrgozar, Roghayeh Ghasempour, **Mohsen Alipour**. The acute toxicity of urea coated ferrous oxide nanoparticles on L929 cell line, evaluation of biochemical and pathological parameters in rat kidney and liver. Journal of Physiology & Pharmacology 2014; 17: 423-436.
- 20- Zahra Davoudi, Abolfazl Akbarzade, Mohammad Rahmatiyamchi, Ali AkbMovassaghpour, **Mohsen Alipour**, Kazem Nejati-Koshki, Zohre Sadeghi, Hassan Dariushnejad, Nosratolla Zargham. Molecular Target Therapy of AKT and NF-kB Signal Pathways and Multidrug Resistance by Specific Cell Penetrating Inhibitor Peptides in HL-60 Cells. Asian Pac J Cancer Prev, 15 (10), 4353-4358.
- 21- Maryam Arab Firouzjaei, Iraj Jafari anarkoli, Mohammad Reza Jafari ,Mehdi Eskandari **Mohsen Alipour**. The effects of nitric oxide production blockage by aminoguanidine on passive avoidance memory and expression of Bcl-2 family genes in diabetic rats. 2014; 17: 399-412.

- 22- Sarieh Ghasempour, Mohammad Ali Shokrgozar, Roghayeh Ghasempour, **Mohsen Alipour**. The evaluation of the iron oxide nanorods toxicity on L929 cell line. *Journal of Isfahan Medical School*. 2014; 31 (263): 1-10.
- 23- Maryam Arab Firouzjae, Mohammad Reza Jafari, Mehdi Eskandari, Iraj Jafari Anarkoli, **Mohsen Alipour**. Aminoguanidine changes Hippocampal expression of Apoptosis-Related Genes, improves passive avoidance learning and memory in Streptozotocin-induced diabetic rats. *Cell Mol Neurobiol* 2014; 34:343–350.
- 24- Mohammad R. Jafari, Samaneh Onsoni, Fatemeh Fekrmandi, Pouria Tabrizian, **Mohsen Alipour**, Mohammad R. Zarrindast. Influence of muscarinic receptor modulators on intracerebroventricular injection of arachydonylcyclopropylamide induced antinociception in mice. *Physiology & Behavior* 2015; 138: 273–278.
- 25- **Mohsen Alipour**, Farhad Ghadiri Soufi, and Mohammad-Reza Jafari Mohammad-Reza. Effect of aminoguanidine on sciatic functional index, oxidative stress, and rate of apoptosis in an experimental rat model of ischemia–reperfusion injury. *Can. J. Physiol. Pharmacol.* 2014; 92: 1013-1019.
- 26- Sarieh Ghasempour, Mohammad Ali Shokrgozar, Roghayeh Ghasempour, **Mohsen Alipour**. Investigating the cytotoxicity of iron oxide nanoparticles in in vivo and in vitro studies. *Experimental and Toxicologic Pathology*. 2015; 67:505-515
- 27- Mohammadreza Gholami, Zahra Khanipour Khayat, Khatereh Anbari, Zia Obidavi, Alimohammad Varzi, Mandana Beigi Boroujeni, **Mohsen Alipour**, Ali Niapoor, Anneh Mohammad Gharravi. Quercetin ameliorates peripheral nerve ischemia–reperfusion injury through the NF-kappa B pathway. *Ana Sci Int*. 2017; 92(3):330-337.
- 28- **M Alipour**, M Gangkhani, M Eskandari, A Rostami, J Tajkey, MR Jafari. Internal evaluation of Department of Physiology and Pharmacology of Zanjan University of Medical Sciences . *Journal of Medical Education Development*; 2012; 4 (7):44-53.
- 29- A Rostami, **M Alipour**, B Amini, F Heydarpour. The effect of hypernatremic state on anesthesia: male Wistar rat. *Tums*. 2008;66 (4): 262-269.
- 30- D Sohrabi, **M Alipour**, MR Gholami. The effect of sodium benzoate on testicular tissue, gonadotropins and thyroid hormones level in adult mice (Balb C). *Kaums Journal (feyz)*. 2008; 12 (3): 7-11.
- 31- **M Alipour**, F Adineh, M Mostafavi, A Aminabadi, M Monirinasab, MR Jafari. Effect of chronic intra-peritoneal injection of aminoguanidine on passiv avoidance memory and expression of Bcl -2 family genes in Streptozotocin Induced Diabetic Rats. *CJPP*. 2016; 94: 669-674.
- 32- **M Alipour**, B Amini, F Adineh, H Feizi, MR Jafari. Effect of sub-chronic intraperitoneal administration of aminoguanidine on memory and hippocampal apoptotic-related genes in diabetic rats. *Bratislava Medical Journal*. 2016; 8: 472-479.
- 33- MR Aliparasti, M Dadkhah, **M Alipour**, Sh Almasi, H Feizi. Effect of gerlin treatment on Box/Bcl-2 gen expression in the animal lung tissue. *J of Zanjan University of Medical Sci & Health Services*. 1395; 24 (106):79-89 (In Persian).
- 34- **M Alipour**, F Fekrmandi, S Onsoni, P Tabrizian, MR Jafari. The Effect of Muscarini Receptor Modulators on the Antinociception Induced by CB2 Receptor Agonist, JWH133 in Mice. *Drug Research*. 2016; 66: 597-601.

- 35- **Alipour M**, Aminabadi A, Arab-Firouzjaei, M, Jafari MR. Sub-chronic Intrahippocampal Aminoguanidine Improves Passive Avoidance Task and Expression of Bcl-2 Family Genes in Diabetic Rats. *Ceska a Slovenska Neurologie a Neurochirurgie*. 2017; 25: 58-68.
- 36- Abbaspour S A A, Abedi A, Mazani M, Mahmoodzade Y, **Alipour M**. Comparative effects of root powder of ferula (*ovina*) and omeperazo treatment of indomethacin-induced gastric ulcer in male rats. *J of Zanjan University of Medical Sci & Health Services*. 1395; 25 (110):24-33 (In Persian).
- 37- Abdanipour AR, Shahsavandi B, Dadkhah M, **Alipour M**, Feizi H. The antiapoptotic effect of ghrelin in the H₂O₂ treated bone marrow-derived mesenchymal stem cells of rat. *J of Zanjan University of Medical Sci & Health Services* 2017; 25(113):58-68.
- 38- Shadi Barzanjeh, Mehdi Eskandari, Hosein Mostafavi, **Mohsen Alipour** and Saeed Ghanbarzadeh. Effect of Cigarette Smoke Exposure and Exercise on Abortion, Placental Vascularization, Human Chronic Gonadotropin Hormone and Birth weight. *Biosciences Biotechnology Research Asia*. 2014; 13(3), 1829-1834.
- 39- Rozita Ghavaminia, Davood Sohrabi, Mitra Arianmanesh, **Mohsen Alipour** and Iraj Jafari Anarkooli. Insulin and natural honey changes hippocampal bcl-2 family gene expression, superoxide dismutase activity, and passive avoidance memory in streptozotocin-induced diabetic rats. *European Journal of Pharmaceutic and Medical Research*. 2016 ; 3(12): 145- 153.
- 40- Alireza Abdanipour, Behnaz Shahsavandi, **Mohsen Alipour**, Hadi Feizi. Ghrelin Upregulates Hoxb4 Gene Expression in Rat Bone Marrow Stromal Cells. *Cell Journal (Yakhteh)*. 2018; 20 (2): Pages: 183-187.
- 41- Alireza Abdanipour, Masoud Dadkhah, **Mohsen Alipour**, Hadi Feizi. Effect of Ghrelin on Caspase 3 and Bcl2 Gene Expression in H₂O₂ Treated Rat's Bone Marrow Stromal Cells. *Adv Pharm Bull*. 2018; 8(3): 294 – 354.
- 42- Shokoufeh Taherkhani, Fatemeh Moradi, Masoumeh Hosseini, **Mohsen Alipour**, Hadi Feizi. Homeobox B4 gene expression is up regulated by ghrelin through PI3 – kinase signaling pathway in rat's bone marrow stromal cells *Endocrine Regulations*. 2019; 53 (2): 65–70.

Congress

- 1- 14th FAOPS congress. Australia, Sept 27-1 Oct 1998. Alaei H, Komaki A, Alipour M. Dopaminergic system and ECOG in rat.
- 2- XXXIII International congress of physiology sciences St. Petersburg, Russia, June 30 – July 5, 1997. Alipour M, Alaei H. The evaluations of Dopaminergic system on sleep and awakens based on EEG rat.
- 3- 19th Iranian congress of physiology and pharmacology. Mashhad-Iran, Aug, 26-30, 2007. Alipour M, Mohammadi M. Long-term exercise effect on erythrocyte antioxidant enzymes and total antioxidant capacity in rabbits fed high cholesterol.
- 4- 15th Iranian congress of physiology and pharmacology. Shiraz-Iran, Nov, 5-8, 2001. Alipour M, Alaei H. Interactive effects of sulpiride and quinpirole drugs on spontaneous brain waves in rat.

- 5-14th Iranian congress of physiology and pharmacology Tehran-Iran may 16-20, 1999.
Alipour M, Alaei H. Interactive effects of apomorphin and halopridol drugs on spontaneous brain waves of rat in state of anesthesia.
- 6-13th Iranian congress of physiology and pharmacology Isfahan –Iran, Sept 25-28, 1997. Alipour M Alaei H. effects of apomorphin and halopridol on sleep in rat.
- 7- Basic and Clinical Neuroscience Congress, Novamner 7-9, 2012 in Razi Conventin Center, Tehran, Iran. Mohsen Alipour, Farhd Ghadiri Sofi, Zahra Davoudi. Aminoguanidine improves sciatic functional index in experimental rat model of ischemia-reperfusion.
- 8- Basic and Clinical Neuroscience Congress, Novamner 7-9, 2012 in Razi Conventin Center, Tehran, Iran. Maryam Firuzjae, Mohammad Reza Jafari, Medhi Eskandari, Iraj Jafarianarkoli, Mohsen Alipour. Effects of aminoguanidine on passive avoidance memory and expression of apoptosis-related genes in hippocampus Streptozotocin-Induced Diabetic Rats.
- 9- 1st National MBA- Biotechnology Congress, December 13, 2012, Tehran University Medical Sciences Mohsen Alipour, Zahr Davoudi, Zohreh Sadeghi. Oxidative Stress Biomarkers.
- 10- 1st National MBA- Biotechnology Congress, December 13, 2012, Tehran University Medical Sciences Mohsen Alipour, Zahr Davoudi, Zohreh Sadeghi. Oxidative stress and neurodegenerative diseases.
- 11- 21th Iranian congress of physiology and pharmacology. Tabriz –Iran, Aug 23-27, 2013. Mohsen Alipour, Zahra Davoudi, Maryam Friuzjae, Aazam Aminabadi, Sarieh Ghasempour. Post-ischemic intraperitoneal instillation of aminoguanidine improves oxidative stress indices and apoptosis rate in experimental rat model of I-R.
- 12- 21th Iranian congress of physiology and pharmacology. Tabriz –Iran, Aug 23-27, 2013. Sarieh Ghasempour, Mohammad Ali Shokrgozar, Roghayeh Ghasempour, Mohsen Alipour. Effects of ironoxide nanoparticle coated urea on L929 cell line biochemical and pathological parameters in rat kidney and liver.
- 13- 5th national congress of medicinal plants. Isfahan –Iran. may 24, 2016. Seyed Ail Asghar Abbaspor, Ali Abedi, Mohamad Mazani, Mohsen Alipor Yavar Mahmodzade. Comparative effects of root powder of Ferula(*Ovina*) and omeperazole for treatment of indomethacin-induced gastric ulcer in male rats.

Thesis Supervisor & Advisor

- Effects of intrahippocampal injection of aminoguanidine on passive avoidance memory and expression of Bcl -2 family genes in Streptozotocin-Induced Diabetic Rats. (MSc Thesis: Maryam Firuzjae).
- The Effect of Poly (ethylene glycol)-Coated Superparamagnetic Iron Oxide Nanoparticles on Physiology of Cell-Life Cycle and In vivo study of Pathological and Biochemical Parameters in Kidney and Liver of Rat (MSc Thesis: Sarieh Ghasempour)
- Daily intrahippocampal injection of aminoguanidine on passive avoidance memory and expression of Bcl -2 family genes in Streptozotocin-Induced Diabetic Rats. (MSc Thesis: Aazam Aminabadi).
- Effect of daily intraperitoneal injection of aminoguanidine on passive avoidance memory and expression of Bcl -2 family genes in Streptozotocin-Induced Diabetic Rats. MSc Thesis: Bayan Amini).

Effect of one month intra-peritoneal aminoguanidine on memory and expression of Bcl-2 family genes in diabetic rats. MSc Thesis: Fatemeh Adineh).

Evaluating the expression of sphingosine -1- phosphate receptor gene in hart tissue of streptozotocin-induced diabetic rat model treated with aminoguanidine. MSc Thesis: (Reza pourpaknia, as Advisor)

Effect of Cigarette Smoke Exposure and Exercise on Abortion, Placental Vascularization, Human Chronic Gonadotropin Hormone and Birth weight MSc Thesis: (Shadieh Barzanjeh as Advisor)

Comparative effects of root powder of ferula (*ovina*) and omeperazo treatment of indomethacin-induc gastric ulcer in male rats. Msc Thesis: (Ali asghar Abbaspour, as Advisor).

Evaluating the effect of trabecular meshwork stem cells transplantaion on the motor symptoms recovery and passive avoidance memory in an animal model of Parkinson disease. Msc Thesis: (Leaila Ghassemifard, asAdvisor).

Assessment of Cinnemomum zeylanicum extracts pre-nutrition on antioxidant capacity after brain Ischemia (MCAO) in receiving high fat diet rats. Msc Thesis: (masoud Hatami Morassa, as Advisor).

The effect of ghrelin on Bcl-2 and Caspase3 gene expression rat cell line hematopoietic stem cells in terms of injured stress. MSc Thesis: (masoud Dadkhah).

Ghrelin Upregulates Hoxb4 Gene Expression in Rat Bone Marrow Stromal Cells. MSc Thesis: (Behnaz Shabsavandi, as Advisor).

Homeobox B4 gene expression is up regulated by ghrelin through PI3 – kinase signaling pathway in rat 's bone marrow stromal cells (Shokoufeh Taherkhani, as Advisor).

Insulin and natural honey changes hippocampal bcl-2 family gene expression, superoxide dismutase activity, and passive avoidance memory in streptozotocin-induced diabetic rats (Rozita Ghavaminia, as Advisor).

Professional Memberships

Member of the editorial board of the Journal of Developmental Biology and Tissue Engineering. (JDBTE)

Member of Iranian Society Physiology and Pharmacology

Member of Iranian Society Neuroscience

Reviewed Manuscripts

1- More than 50 Manuscripts for Journal of Medicinal Plant Research

2- More than 15 Manuscripts for Journal of Developmental Biology and Tissue Engineering, Journal of Hypertension, Journal of Physiology and Pharmacology.

3- More than 10 Manuscripts for Saudi Medical Journal.

4- More than 100 Manuscripts (In Persian) for Persian language Journals.
