

CURRICULUM VITAE



Name: Mohammad Ali

Title: Male

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Date of birth: 1980

Marital Status: Married, 2 children

Academic Degree: M.Sc, Ph.D.

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Academic Qualification:

<i>Degree</i>	<i>Subject</i>	<i>University & Country</i>	<i>Year</i>
B.Sc.	Biology	Zabol University, Iran	2003(1382)
M.Sc.	Physiology	Shahed University, Iran	2009 (1388)
Ph.D.:	Human Physiology (Neurophysiology & Behavior)	Jundishapur University of Medical Sciences, Ahvaz, Iran	2015 (1394)

Professional experience: Researcher in Human Physiology (Behavior, Electrophysiology, and Traumatic Brain Injury)

A- Lectures (from 2010):

Lecture in congress of Diabetes, Esfahan, Iran

B- Research fields:

A. Behavior

B. Brain electrophysiology (In vivo synaptic field potentials recording, Single-unit recording).

Member of Academic Societies:

- 1- Iranian Physiology and Pharmacology Society.
- 2- International Brain Research Organization (IBRO)

Paper presentations (international & national congresses):

Congress:

- 1- The effect of chronic oral feeding of aerial part of *Apium graveolens* on the serum levels of glucose and lipids of diabetic rats, International congress of diabetes : yazd-2009
- 2- Mirshekar M, Roghani M, Niknam A. Vasorelaxant Effect of Aerial Part of *Marrubium Vulgare* in Aorta of Male Diabetic Rat, 3th international congress of cardiovascular system.
- 3- Mirshekar M, Arabmoazzen S, Sarkaki A. Hypolipidemic effect of chronic pelargonidin in streptozotocin- diabetic rats
- 4- اثر تغییرات وابسته به زمان در پاسخ گشادشدگی آنورت سینه ای به کونرستین در مدل تجربی دیابت قندی در موش صحرایی . کنگره سراسری اندوتلیوم اصفهان - اردیبهشت ۸۸
- 5- اثر وابسته به اندوتلیوم تجویز خوراکی و دراز مدت سیاهدانه بر پاسخ انقباضی آنورت سینه ای در موش صحرایی دیابتی . کنگره سراسری اندوتلیوم اصفهان - اردیبهشت ۸۸
- ۶- Motor disturbances improved by peripheral administration of diosmin in animal model of traumatic brain injury, Mohammad Ali Mirshekar, , International congress of Physiology and Pharmacology : chabahar-2016
- 7- Protective effects of diosmin on blood-brain barrier disruption and brain edema following traumatic brain injury, Mohammad Ali Mirshekar, International congress of Physiology and Pharmacology : chabahar-2016
- 8- Inhibitory effect of diosmin on $TNF-\alpha$ protects in vivo blood-brain barrier from traumatic brain injury, Mohammad Ali Mirshekar, International congress of Physiology and Pharmacology : chabahar-2016

Published Articles:

- 1- **Mirshekar MA**, Roghani M, Khalili M, Baluchnejadmojarad T , Arab Moazzen S, Chronic Oral Pelargonidin Alleviates Streptozotocin-Induced Diabetic Neuropathic Hyperalgesia in Rat: Involvement of Oxidative Stress, Iranian Biomedical Journal 14 (1 & 2): 33-39 (January & April 2010)

- 2- **Mirshekar MA**, Roghani M, Khalili M, Baluchnejadmojarad T, Chronic Oral Pelargonidin Alleviates Learning and Memory Disturbances in Streptozotocin Diabetic Rats, *iranian pharmaceutical research journal*, (January & April 2010)
- 3-**Mirshekar MA**, Roghani M, Khalili M, Baluchnejadmojarad T, Hypolipidemic effect of chronic pelargonidin in streptozotocin-diabetic rats (in press)
- 4- **Mirshekar, Mohammad Ali**, et al. "Effect of Chronic Noise Stress on Serum Glucose and Lipids and Morphology of Langerhans Islets in Neonatal Rats." *Zahedan Journal of Research in Medical Sciences* (2015): 0-0.
- 5- Sarkaki, A., Farbood, Y., Gharib-Naseri, M. K., Badavi, M., Mansouri, M. T., Haghparast, A., & **Mirshekar, M. A.** (2015). Gallic acid improved behavior, brain electrophysiology, and inflammation in a rat model of traumatic brain injury. *Canadian journal of physiology and pharmacology*, 93(8), 687-694.
- 6- Saiedeh Arabmoazzen, Alireza Sarkaki, Ghasem saki, **Mohammad Ali Mirshekar**, "Antidiabetic effect of honey feeding in noise induced hyperglycemic rat: involvement of oxidative stress." *Iranian journal of basic medical sciences* 18.8 (2015): 745.
- 7- Mansouri, M. T., Farbood, Y., Naghizadeh, B., Shabani, S., **Mirshekar, M. A.**, & Sarkaki, A. (2016). Beneficial effects of ellagic acid against animal models of scopolamine-and diazepam-induced cognitive impairments. *Pharmaceutical biology*, 54(10), 1947-1953.
- 8- **Mirshekar, Mohammad Ali**, Hamed Fanaei, Fereshteh Keikhaei, and Fatemeh Sargolzaee Javan. "Diosmin improved cognitive deficit and amplified brain electrical activity in the rat model of traumatic brain injury." *Biomedicine & Pharmacotherapy* 93 (2017): 1220-1229.
- 9- Shabani, Sahreh, and **Mohammad Ali Mirshekar**. "Diosmin is neuroprotective in a rat model of scopolamine-induced cognitive impairment." *Biomedicine & Pharmacotherapy* 108 (2018): 1376-1383.
- 10- **Mirshekar, Mohammad Ali**, Alireza Sarkaki, Yaghoub Farbood, Mohammad Kazem Gharib Naseri, Mohammad Badavi, Mohammad Taghi Mansouri, and Abbas Haghparast. "Neuroprotective effects of gallic acid in a rat model of traumatic brain injury: behavioral, electrophysiological, and molecular studies." *Iranian journal of basic medical sciences* 21,

no. 10 (2018): 1056.

- 11- **Mirshekar MA**, Shahraki M, Najafi R, Shabani S. The ameliorative effects of myricetin on neurobehavioral activity, electrophysiology, and biochemical changes in an animal model of traumatic brain injury. *Learning and Motivation*. 2019 Nov 1;68:101597.
- 12- Keikhaei F, **Mirshekar MA**, Shahraki MR, Dashipour A. Antiepileptogenic effect of myricitrin on spatial memory and learning in a kainate-induced model of temporal lobe epilepsy. *Learning and Motivation*. 2020 Feb 1;69:101610.
- 13- Bornavard M, Fanaei H, **Mirshekar MA**, Farajian Mashhadi F, Atashpanjeh A. Morphine consumption during pregnancy exacerbates neonatal hypoxia-ischemia injury in rats. *International Journal of Developmental Neuroscience*. 2020 Jan 24.
- 14- Veisi A, Akbari G, Mard A, Badfar G, Zarezade V, **Mirshekar MA**. Role of crocin in several cancer cell lines: An updated review. *Iranian Journal of Basic Medical Sciences*. 2020 Jan 1;23(1):3-12.
- 15- SargolzaeeJavan F, **Mirshekar MA**, Shahraki M. Neuroprotective Effects of Myricitrin on Cognitive Deficits in Hippocampal Demyelinated Rats. *Journal of Mazandaran University of Medical Sciences*. 2019 Dec 10;29(180):8-23.
- 16- Sedaghat G, **Mirshekar MA**, Amirpour M, Montazerifar F, Miri S, Shourestani S. Sub-chronic administration of brewed coffee on rat behavior and cognition and oxidative stress Alzheimer's disease model. *Clinical Nutrition Experimental*. 2019 Dec 1;28:62-73.
- 17- **Mirshekar MA**, Miri S, Shahraki A. A Survey of the Effects of Diosmin on Learning and Memory Following the Use of Paraquat Herbicide Poisoning in a Model of Rats. *Shiraz E-Medical Journal*.;21(5).
- 18- **Mirshekar MA**, Lakzaei H, Shabani S. Therapeutic effects of levothyroxine in a rat model of scopolamine-induced cognitive impairment: An electrophysiological, behavioral, and biochemical study. *Learning and Motivation*. 2020 Aug 1;71:101654.
- 19- Shamsi-Goushki A, Mortazavi Z, **Mirshekar MA**, Mohammadi M, Moradi-Kor N, Jafari-Maskouni S, Shahraki M. Comparative Effects of Curcumin versus Nano-Curcumin on Insulin Resistance, Serum Levels of Apelin and Lipid Profile in Type 2 Diabetic Rats.

- Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy. 2020 Jul 3;13:2337-46.
- 20- Hosseini R, Ferns GA, Sahebkar A, **Mirshekar MA**, Jalali M. Zinc supplementation is associated with a reduction in serum markers of inflammation and oxidative stress in adults: a systematic review and meta-analysis of randomized controlled trials. Cytokine. 2021 Feb 1;138:155396.
- 21- Shamsi-Goushki A, Mortazavi Z, **Mirshekar MA**, Behrasi F, Moradi-Kor N, Taghvaeefar R. Effects of high white and brown sugar consumption on serum level of brain-derived neurotrophic factor, insulin resistance, and body weight in albino rats. Journal of obesity & metabolic syndrome. 2020 Dec 12;29(4):320.
- 22- Yarahmadzahi S, Fanaei H, **Mirshekar MA**, Atashpanjeh AR. Opium consumption exerts protective effect against cerebral ischemia through reducing inflammation and enhancing antioxidant defense in male rats. Neurology, Psychiatry and Brain Research. 2020 Sep 1;37:15-20.
- 23- Naghizadeh M, **Mirshekar MA**, Montazerifar F, Saadat S, Koushki AS, Maskouni SJ, Afsharfar M, Arabmoazzen S. Effects of quercetin on spatial memory, hippocampal antioxidant defense and BDNF concentration in a rat model of Parkinson's disease: An electrophysiological study. Avicenna Journal of Phytomedicine. 2021 Nov;11(6):599.
- 24- Amirpour M, **Mirshekar MA**, Sedaghat G, Montazerifar F, Shourestani S, Arabmoazzen S, Naghizadeh M. The effects of green tea on cognitive impairments in the rat model of Alzheimer's disease: Protection against inflammatory and oxidative damage. Nutritional Neuroscience. 2022 Dec 2;25(12):2659-67.
- 25- Esfahlani MA, Arabmoazzen S, Badini F, **Mirshekar MA**, Arezoomandan R. The Effects of Deep Brain Stimulation in Medial Prefrontal Cortex on Morphine Dependency and Electrical Recording of the Nucleus Accumbens. International Journal of High Risk Behaviors and Addiction. 2023 Dec 31(In Press).
- 26- Hosseini R, **Mirshekar MA**, Montazerifar F, Soltanmohammadi M, Behrasi F. The effects of curcumin on serum galactin-3, rat behavior, cognition, and total antioxidant capacity in the streptozotocin-induced Alzheimer's model in rats.
- 27- Hosseini R, **Mirshekar MA**, Sedaghat G, Clark CC, Jalali M. The Effect of Sub-chronic

Administration of Brewed Coffee on Long-term Potentiation in a Rat Model of Alzheimer's Disease. Shiraz E-Medical Journal. 2022 Jul;23(7):e113268.

28- Mosallanezhad Z, Mahmoodi M, Hosseini R, Ranjbar S, **Mirshekar MA**, Clark CC, Kiamarzi K, Barzegar F, Motamed Z, Jalali M. The effect of chamomile intake on lipid profile in patients with diabetes and related metabolic disorders. A systematic review and meta-analysis of randomized controlled trials. Clinical Diabetology. 2021 Sep 9;10(4):375-81.

29- Arabmoazzen S, **Mirshekar MA**. Evaluation of the effects of metformin as adenosine monophosphate-activated protein kinase activator on spatial learning and memory in a rat model of multiple sclerosis disease. Biomedicine & Pharmacotherapy. 2021 Sep 1;141:111932.

30- Hosseini R, Ferns GA, Sahebkar A, **Mirshekar MA**, Jalali M. Response to commentary on 'zinc supplementation is associated with a reduction in serum markers of inflammation and oxidative stress in adults: A systematic review and meta-analysis of randomized controlled trials'. Cytokine. 2021 May;141:155460.

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پایان نامه های مصوب کمیته اخلاق و معاونت تحقیقاتی دانشگاه خاتمہ یافته:

- ۱- بررسی اثر دیوسمین بر افسردگی متعاقب آلزایمر القا شده با اسکوپولامین در موش صحرایی نر
- ۲- بررسی اثر لووتیروکسین بر بهبود نقایص شناختی مالتیپل اسکلروزیس القاء شده توسط لیزولسیتین در موش صحرایی نر
- ۳- بررسی اثر میریسیتین بر نقایص شناختی در مدل موش صحرایی مبتلا به مالتیپل اسکلروزیس
- ۴- بررسی مقایسه ای اثرات مصرف کورکومین و نانوکورکومین بر پروفایل لیپیدی، قند خون، مقاومت به انسولین و سطح سرمی آپلین در موش های صحرایی دیابتی
- ۵- بررسی اثر مصرف مورفین در دوران بارداری و شیردهی بر آسیب ناشی از هیپوکسی-ایسکمی مغزی نوزادان در موش صحرایی
- ۶- بررسی اثر اعتیاد به مصرف خوراکی تریاک بر وضعیت التهاب و استرس اکسیداتیو پس از سکته مغزی در موش صحرایی نر
- ۷- بررسی اثر میریسیتین بر نقایص شناختی در صرع لوب تمپورال القاء شده با کاینیک اسید در موش صحرایی نر
- ۸- بررسی اثر میریسیتین بر اضطراب ناشی از ترومای مغزی منتشر در موش صحرایی نر