
CURRICULUM VITAE (Last updated August, 2024)



**Siyavash Joukar, PhD,
Professor of Physiology**

Personal

Born: 26 May, 1966, Kazeroon, Fars, Iran.

Citizenship: Iranian

Present position and address:

Professor of Physiology,
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Educational background:

- B.Sc. (1994). Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- M.Sc. (2001). Kerman Medical University, Iran.
- Ph.D. (2009). Kerman Medical University, Iran.
(Medical physiology, Ph.D Thesis: Short and long term effects of passive opium smoking on cholesterol, arterial blood pressure, cardiac contractility and cardiac resistance to ischemia in normal and hypercholesterolemic rabbits).

Employment record:

1991-2006: Hospital personnel (clinical and instructor supervisor and hospital manager) Bushher University of Medical Sciences, Bushher, Iran.

2007-2008: Lab. expert,

2009-2013: Assistant Professor of Medical Physiology, Department of Physiology and Pharmacology, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

2013-2018: Associate Professor of Medical Physiology, Department of Physiology and Pharmacology, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

2018-present: Professor of Medical Physiology, Department of Physiology and Pharmacology, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

2012-2018: Dean of School of Medicine Post Graduate office, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

August 2024-continue: Head of Department of Physiology and Pharmacology, Afzalipur Medical School

Research Interest:

-Cardiovascular and Muscle: Physiology, Pathology, Toxicology and Pharmacology

-Neurosciences: Toxicity, Convulsion, Memory

<https://scholar.google.com/citations?user=I1M5LvQAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=35198533000>

Training Workshops, Congresses and Seminars:

1. 17th Iranian Congress of Physiology & Pharmacology Kerman-Iran oct. 1-4, 2005
2. The student corneress of 17th Iranian Congress of Physiology & Pharmacology, 1-2 October 2005 Kerman University of Medical Science
3. National Congress of Gerontology and Geriatrics, Isfahan University of Medical Sciences, Iran 2004
4. National Congress of Stress Related Diseases, Shiraz University of Medical Sciences, Iran 2004
5. 1st National Congress of Sources Management in Hospital Ministry of Health Services and Medical Education, Tehran-Iran 2002
6. 18th Iranian Congress of Physiology & Pharmacology Mashhad-Iran 2007
7. 19th Iranian Congress of Physiology & Pharmacology Tehran-Iran 2009
8. 11th Iranian Nutrition Congress Shiraz-Iran 2010
9. 36th Congress of IUPS Kyoto- Japan 2009
10. 2nd National Congress of quality comprehensive Management in Health Services and Medical Education, Tehran-Iran 2003

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11. Certificate of PCR Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2007
 12. Certificate of Brain Inflammation Method Establishment Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2005
 13. Certificate of Research in Education Workshop, Kerman University of Medical Science, Iran 2008
 14. Certificate of 1st National Advanced Electrophysiology and Animal Heart Models Workshop, Gorgan University of Medical science, Iran 2007
 15. Certificate of 2nd Powerlab workshop in Research and Education and Advanced Techniques in Bio Sciences, Shahid Beheshti Medical science University, Tehran, Iran
 16. Certificate of 1st Advanced Research Method Education Workshop, Kerman University of Medical Science, Iran 2005
 17. Certificate of Writing Article Principle Workshop, Kerman University of Medical Science, Iran 2008
 18. Certificate of Electronic Resources of Iranian Medical Digital National Library Workshop, Kerman University of Medical Science, Iran 2008
 19. Certificate of Scholarship Workshop, Kerman University of Medical Science, Iran 2010
 20. Certificate of Examination Analyze Workshop, Kerman University of Medical Science, Iran 2010
 21. 20th Iranian Congress of Physiology & Pharmacology Hamadan-Iran 2011
 22. Turkish FEPS Physiology Congress, Istanbul, Turki, September 2011
 23. The 17th National and 5th International Iranian Biology Conference, 14-16 Shahrivar 1391 (2012), Kerman, Iran.
 24. 21th International Iranian Congress of Physiology & Pharmacology, 23-27 August 2013, Tabriz, Iran.
 25. 3rd International Preventive Cardiology Congress, 3-5 October 2014, Shiraz, Iran
 26. 22th International Iranian Congress of Physiology & Pharmacology, 17 - 21 September 2015, Kashan, Iran.
 27. 2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran, 15-18 Feb. 2018
 28. 24th Iranian Congress of Physiology and Pharmacology, Tehran, I.R. Iran, 30 Oct – 01 Nov 2019
 - 29.
 30. Certificate of first specialized supplementary course (fellowship) (148 hr) in Biology of Aging, Kerman University of Medical Science, July 11, 2019 to May 16, 2020 Iran
 31. 25th Iranian Congress of Physiology and Pharmacology, Tehran, I.R. Iran, 20-22 Oct 2021
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32. 5th International and 26th national Congress of Physiology and Pharmacology of Iran, Semnan, I.R. Iran, 11-13 Oct 2023

Publications

- **Publications in international Journals**

- 1- **Siyavash Joukar** • Hamid Najafipour • Mohammad Khaksari • Gholamreza Sepehri • Nader Shahrokhi • Shahriar Dabiri • Ahmad Gholamhoseinian • Soheil Hasanzadeh, The Effect of Saffron Consumption on Biochemical and Histopathological Heart Indices of Rats with Myocardial Infarction. *Cardiovasc Toxicol*, 2010, 10: 61-71
- 2- **Siyavash Joukar** • Hamid Najafipour, Reza Malekpour, Fatemeh Mirzaeipour, Hamidreza Nasri.
The effect of passive opium smoking on cardiovascular indices of rabbits with normal and ischemic hearts. *The Open Cardiovascular Medicine Journal*. 2010,4: 1-6
- 3- Hamid Najafipour, **Siyavash Joukar**, Reza Malekpour, Fatemeh Mirzaeipour, Hamidreza Nasri. Passive opium smoking dose not have beneficial effect on plasma lipids and cardiovascular indices in hypercholesterolemic rabbits with ischemic and non ischemic hearts. *Journal of Ethnopharmacology*, 2010, 127: 257-263
- 4- **Siyavash Joukar**, Nafiseh Atapour, Tajpari Kalantaripour, Hamideh Bashiri , Alireza Shahidi. Differential modulatory actions of GABAA agonists on susceptibility to GABAA antagonists-induced seizures in morphine dependent rats: Possible mechanisms in seizure propensity. *Pharmacology, Biochemistry and Behavior* 99 (2011) 17–21
5. **Joukar S.**, Najafipour H., Dabiri S., Sheibani V., Esmaeili-Mahani S., Ghotbi P., Bashiri H., Amanollahi F., Joukar F. Chronic co-administration of morphine and calcium channel antagonists ameliorates isoproterenol-induced myocardial injury in rats. *Cardiovascular & Hematological Agents in Medicinal Chemistry*, 2011, 9, 218-224
6. **Siyavash Joukar** & Hamideh Bashiri & Shahriar Dabiri & Payam Ghotbi & Arash Sarveazad & Kouros Divsalar & Farzin Joukar & Mahsa Abbaszadeh. Cardiovascular effects of black tea and nicotine alone or in combination against experimental induced heart injury. *J Physiol Biochem* (2012) 68:271–279
7. Hamid Najafipour, **Siyavash Joukar**. Combination of opium smoking and hypercholesterolemia augments susceptibility for lethal cardiac arrhythmia and atherogenesis in rabbit. *Environmental Toxicology and Pharmacology*, 34 (2012) 154–159
8. **Siyavash Joukar**, Beydolah Shahouzehi, Hamid Najafipour, Ahmad Gholamhoseinian, Farzin Joukar. Ameliorative effect of black tea on

9. Nader Shahrokhi , Mohammad Khaksari Haddad, **Siyavash Joukar**, Mohammad Shabani¹, Zekie Keshavarzi⁴ and Bidoallah Shahozehi
Neuroprotective antioxidant effect of sex steroid hormones in traumatic brain injury. Pak. J. Pharm. Sci., Vol.25, No.1, January 2012, pp.219-225
10. A. Gholamhoseinian, B. Shahouzehi. **S. Joukar**, et al. Effect of Quercus infectoria and Rosa damascena on Lipid Profile and Atherosclerotic Plaque Formation in Rabbit Model of Hyperlipidemia. Pak. J. Biol. Sci., 15(1):27-33, 2012
11. **Siyavash Joukar**, Mohammad Sheibani, Farzin Joukar, Cardiovascular effect of nifedipine in morphine dependent rats hemodynamic, histopathological, and biochemical evidence. Croat Med J. 2012;53:343-9
12. **Siyavash Joukar**, electrocardiogram alterations following one-week consumption of crocus sativus l. (saffron). EXCLI Journal 2012;11:480-486
۱۳. زهرا سلطانی، محمد خاکساری، علیرضا سرکاکی، زکیه کشاورزی، فرزانه اسماعیلی، سیاوش جوکار:
نقش سیتوکین های پیش برنده التهاب در واسطه گری اثر ضد خیز مغزی استروئیدهای جنسی
زنانه بعد از جراحی تروماتیک مغزی، مجله دانشگاه ع. پ. کرمان، دوره ۱۸، ۱۳۹۰.
14. **Siyavash Joukar**, Hamid Najafipour, Fateme Mirzaeipour, Hamidreza Nasri, Mahboubeh Yeganeh Haj Ahmadi, Marziyeh Badinloo: Modulatory effect of semelil (angipars™) on Isoproterenol induced cardiac injury, EXCLI Journal 2013;12:122-129
15. **Joukar S**, Ghasemipour-Afshar E, Sheibani M, Naghsh N, Bashiri A.
Protective effects of saffron (Crocus sativus) against lethal ventricular arrhythmias induced by heart reperfusion in rat: a potential anti-arrhythmic agent. Pharm Biol. 2013 Jul;51(7):836-43.
16. Khaksari M, Mahmmodi R, Shahrokhi N, Shabani M, **Joukar S**, Aqapour M. The Effects of Shilajit on Brain Edema, Intracranial Pressure and Neurologic Outcomes following the Traumatic Brain Injury in Rat. Iran J Basic Med Sci. 2013 Jul;16(7):858-64.
17. **Joukar S**, Ghorbani-Shahrbabaki S, Hajali V, Sheibani V, Naghsh N.
Susceptibility to life-threatening ventricular arrhythmias in an animal model of paradoxical sleep deprivation. Sleep Med. 2013 Dec;14(12):1277-82.
18. **Joukar S**, Askarzadeh M, Shahouzehi B, Najafipour H, Fathpour H.
Assessment of Safety and Therapeutic Efficacy of Rosa damascena L. and Quercus infectoria on Cardiovascular Performance of Normal and Hyperlipidemic Rabbits: Physiologically Based Approach. J Toxicol. 2013;2013:769143.

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19. **Joukar S**, Najafipour H, Dabiri S, Sheibani M, Sharokhi N.
Cardioprotective Effect of Mumie (Shilajit) on Experimentally Induced Myocardial Injury. *Cardiovasc Toxicol*. 2014 Sep;14(3):214-21.
 20. **Joukar S**, Zarisfi Z, Sepehri Gh, Bashiri A.
Efficacy of *Melissa officinalis* in Suppressing Ventricular Arrhythmias following Ischemia-Reperfusion of the Heart: A Comparison with Amiodarone. *Med Princ Pract*, 2014;23(4):340-5.
 21. Najafipour H, Siahposht Khachaki A, Khaksari M, Shahouzehi B, **Joukar S**, Poursalehi HR. Traumatic brain injury has not prominent effects on cardiopulmonary indices of rat after 24 hours: hemodynamic, histopathology, and biochemical evidence. *Iran Biomed J*. 2014;18(4):225-31.
 22. Asadi-Shekaari M, Eslami A, Kalantaripour T, **Joukar S**.
Potential mechanisms involved in the anticonvulsant effect of walnut extract on pentylenetetrazole-induced seizure. *Med Princ Pract*. 2014;23(6):538-42.
 23. **Siyavash Joukar** and Naser Mahdavi. Alterations of blood pressure and ECG following two-week consumption of *berberis integerrima* fruit extract. *International Scholarly Research Notices*, Volume 2014, Article ID 209683, <http://dx.doi.org/10.1155/2014/209683>
 24. Binayi F, **Joukar S**, Najafipour H, Karimi A, Abdollahi F, Masumi Y.
The Effects of Nandrolone Decanoate Along with Prolonged Low-Intensity Exercise on Susceptibility to Ventricular Arrhythmias. *Cardiovasc Toxicol*. 2015 Jan 31. [Epub ahead of print]
 25. Mahdavi N, **Joukar S**, Najafipour H, Asadi-Shekaari M.
The promising effect of barberry (*Zereshk*) extract against experimental pulmonary microvascular remodeling and hypertension: A comparison with sildenafil. *Pharm Biol*. 2015 May 29:1-7.
 26. Ghorbani Baravati H, **Joukar S**, Fathpour H, Kordestani Z.
Nandrolone Plus Moderate Exercise Increases the Susceptibility to Lethal Arrhythmias. *Res Cardiovasc Med*. 2015 May 23;4(2):e26233.
 27. **Joukar S**, Asadipour H. Evaluation of *Melissa officinalis* (Lemon Balm) Effects on Heart Electrical System. *Res Cardiovasc Med*. 2015 May 23;4(2):e27013.
 28. **Joukar S**, Sheibani V, Koushesh F, Ghasemipoor Afshar E, Ghorbani Shahrabaki S. Arrhythmogenic Risk Assessment Following Four-Week Pretreatment With Nicotine and Black Tea in Rat. *Res Cardiovasc Med*. 2015 Aug 1;4(3):e27088.
 29. **Joukar S**, Asadipour H, Sheibani M, Najafipour H, Dabiri S. The effects of *Melissa officinalis* (lemon balm) pretreatment on the resistance of the heart
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- to myocardial injury. *Pharm Biol.* 2015 Oct 12;1-9.
30. Nasri HR, **Joukar S**, Kheradmand H, Poursalehi HR, Dabiri Sh.
Co-administration of Atorvastatin and Amiodarone Increases the Risk of
Pulmonary Fibrosis in Rat. *Med Princ Pract.* 2015, Nov 6 (in press)
31. Abdollahi F, **Joukar S**, Najafipour H, Karimi A, Masumi Y, Binayi F.
The risk of life-threatening ventricular arrhythmias in presence of high-
intensity endurance exercise along with chronic administration of
nandrolone decanoate. *Steroids.* 2016 Jan;105:106-12.
32. **Joukar S**, Ghorbani-Shahrbabaki S. Does experimental paradoxical sleep
deprivation (EPSPD) is an appropriate model for evaluation of
cardiovascular complications of obstructive sleep apnea? *Sleep Breath.*
2015 Dec 30. [Epub ahead of print]
33. Houshmandi N, Najafipour H, **Joukar S**, Dabiri S, Abbasloo E, Abdi E, Safi Z.
The effect of interleukins 27 and 35 and their role on mediating the action of
insulin Like Growth Factor -1 on the inflammation and blood flow of
chronically inflamed rat knee joint. *Cytokine.* 2016 May;81:117-26
34. **Joukar S**, Dehesh MM. The safety assessment of saffron (*Crocus sativus* L.) on
sympathovagal balance and heart rate variability; a comparison with
amiodarone. *Auton Autacoid Pharmacol.* 2015 Dec;35(4):46-50.
35. **Joukar S**, Ebrahimi S, Khazaei M, Bashiri A, Shakibi MR, Naderi V, Shahouzehi
B, Alasvand M. Co-administration of walnut (*Juglans regia*) prevents
systemic hypertension induced by long-term use of dexamethasone: a
promising strategy for steroid consumers. *Pharm Biol.* 2017 Dec;55(1):184-
189.
36. Soheil Aminizadeh, Hamid Marefati, Hamid Najafipour, **Siyavash Joukar**,
Shahriar Dabiri, and Beydolah Shahouzehi. Protective Effects of High-
Intensity Versus Low-Intensity Interval Training on Isoproterenol-Induced
Cardiac Injury in Wistar Rats. *Res Cardiovasc Med.* 2016, e34639. Inpress
37. **Siyavash Joukar**, Reza Vahid, Alireza Farsinejad, Majid Asadi-shekari,
Beydolah Shahouzehi. Ameliorative effects of endurance exercise with two
different intensities on nandrolone decanoate-induced neurodegeneration in
rats: Involving of redox and apoptotic systems. *Neurotoxicity Res.* 2017
Jul;32(1):41-49.
38. Vahidi R, **Joukar S**. Commentary: Acute Myocardial Response to Stretch: What
We (don't) Know. *Front Physiol.* 2017 Mar 2;8:121.
39. Karimi A, **Joukar S**, Najafipour H, Masoumi-Ardakani Y, Shahouzehi B.
Low-intensity endurance exercise plus nandrolone decanoate modulates cardiac
adiponectin and its receptors. *Auton Autacoid Pharmacol.* 2017
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Mar;37(2):29-33.

40. **Joukar S**, Sheibani M. Combinatorial effect of nicotine and black tea on heart rate variability: Useful or harmful? *Auton Autacoid Pharmacol*. 2017 Jun;37(3):44-48.
41. Rostamzadeh F, Najafipour H, Yeganeh-Hajahmadi M, **Joukar S**. Opioid receptors mediate inotropic and depressor effects of apelin in rats with 2K1C-induced chronic renovascular hypertension. *Clin Exp Pharmacol Physiol*. 2018 Feb;45(2):187-197.
42. Rostamzadeh F, Najafipour H, Yeganeh-Hajahmadi M, Esmaili-Mahani S, **Joukar S**, Iranpour M. Heterodimerization of apelin and opioid receptors and cardiac inotropic and lusitropic effects of apelin in 2K1C hypertension: Role of pERK1/2 and PKC. *Life Sci*. 2017 Dec 15;191:24-33.
43. Pour MB, **Joukar S**, Hovanloo F, Najafipour H. Long-term Low-Intensity Endurance Exercise along with Blood-Flow Restriction Improves Muscle Mass and Neuromuscular Junction Compartments in Old Rats. *Iran J Med Sci*. 2017 Nov;42(6):569-576.
44. Abdi E, Najafipour H, **Joukar S**, Dabiri S, Esmaili-Mahani S, Abbasloo E, Houshmandi N, Afsharipour A. Expression of IGF-1, IL-27 and IL-35 Receptors in Adjuvant Induced Rheumatoid Arthritis Model. *Iran J Immunol*. 2018 Mar;15(1):14-27.
45. Bahreinipour MA, **Joukar S**, Hovanloo F, Najafipour H, Naderi V, Raji A, Esmaili-Mahani S. Mild aerobic training with blood flow restriction increases the hypertrophy index and MuSK in both slow and fast muscles of old rats: Role of PGC-1 α . *Life Sci*. 2018 Jun 1;202:103-109.
46. Raji A, **Joukar S**, Naderi- Boldaji V, Bejeshk MA. Mild exercise along with limb blood-flow restriction modulates the electrocardiogram, angiotensin, and apelin receptors of the heart in aging rats. *Iran J Basic Med Sci*. 2018 Jun;21(6):558-563
47. **Joukar S**, Marefati H, Aminizadeh S, Masoumi Ardakani Y. The Effects of Estrogen-Related Receptor alpha Inhibition on Serum levels of Chemerin, Apelin and Nesfatin-1 after Endurance Training in Male Wistar Rats. *Rafsanjan Univ Med Sci* 2018; 16(10): 901-12. [Farsi]
48. Ahmadi J, **Joukar S**, Anani H, Karami-Mohajeri S. Dihydroxyacetone as a definitive treatment for aluminium phosphide poisoning in rats. *Arh Hig Rada Toksikol*. 2018 Jun 1;69(2):169-177.
49. Behzadi M, **Joukar S**, Beik A. Opioids and Cardiac Arrhythmia: A Literature Review. *Med Princ Pract*. 2018;27(5):401-414.

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50. Naderi-Boldaji V, **Joukar S**, Noorafshan A, Raji-Amirhasani A, Naderi-Boldaji S, Bejeshk MA. The effect of blood flow restriction along with low-intensity exercise on cardiac structure and function in aging rat: Role of angiogenesis. *Life Sci.* 2018 Sep 15;209:202-209.
51. Mohammad-Abbas Bejeshk, **Siyavash Joukar**, Beydolah Shahouzehi, Majid Asadi-shekari, ... Vida Naderi-boldaji. Combinatorial effect of lower extremity blood flow restriction and low intensity endurance exercise on aorta of old male rats: Histomorphological and molecular approach *Artery Research* (2018) 24, 22-31.
52. Mahboobeh Yeganeh-Hajahmadi, Hamid Najafipour , Farzaneh Rostamzadeh, Saeed Esmaeili- Mahani , **Siyavash Joukar**. Effect of apelin on cardiac contractility in acute reno-vascular hypertension: The role of apelin receptor and kappa opioid receptor heterodimerization. *Iran J Basic Med Sci*, Vol. 21, No. 12, Dec 2018, 1305-1315.
53. Vida Naderi-boldaji, **Siyavash Joukar**, Ali Noorafshan, Mohammad-Ali Bahreinipour. Limb blood flow restriction plus mild aerobic exercise training protects the heart against isoproterenol-induced cardiac injury in old rats: Role of GSK-3 β . *Cardiovasc Toxicol.* 2019 Jun;19(3):210-219.
54. **Joukar S**, Yoosefnia M, Naderi-Boldaji V, Nasri H, Rafie F. Heart Reaction to Nandrolone Decanoate plus Two Different Intensities of Endurance Exercise: Electrocardiography and Stereological Approach. *Addict Health.* 2018 Jul;10(3):180-189
55. Ghasemi Poor M, Aminai M, Nikooie R, Jokar S. The Effects of IPC Before and During Training on Some Functional and Hemodynamic Factors in Female Athletes. Summer 2018; 10(38): 97-110. (In Persian).
56. Nakhaee MR, **Joukar S**, Zolfaghari MR, Rostamzadeh F, Masoumi-Ardakani Y, Iranpour M, Nazari M. Effects of Endurance Exercise Training on Cardiac Dysfunction Induced by Waterpipe Tobacco Smoking. *Addict Health.* 2019 Apr;11(2):100-109.
57. Badreh F, **Joukar S**, Badavi M, Rashno M, Dehesh T. The Effects of Age and Fasting Models on Blood Pressure, Insulin/Glucose Profile, and Expression of Longevity Proteins in Male Rats. *Rejuvenation Res.* 2020; 23, Number 3, 224-235
58. Badreh F, **Joukar S**, Badavi M, Rashno M. Restoration of the renin-angiotensin system balance is a part of the effect of fasting on cardiovascular rejuvenation: Role of age and fasting models. *Rejuvenation Res.* 2020; 23, 4,:302-312
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59. Mohammad Reza Nakhaee, Mohammad Reza Zolfaghari, **Siyavash Joukar***, Nouzar Nakhaee, Yaser Masoumi-Ardakani, Maryam Iranpour, Mozhdeh Nazari
Swimming exercise training attenuates the lung inflammatory response and injury induced by exposing to waterpipe tobacco smoke. *Addict Health*. 2020, In press
60. Ahmad Beik , **Siyavash Joukar** , Hamid Najafipour. A review on plants and herbal components with antiarrhythmic activities and their interaction with current cardiac drugs. *Journal of Traditional and Complementary Medicine*, 10 (2020) 275-287.
61. Soodeh Rajabi, Hamid Najafipour , Saeideh Jafarinejad Farsangi, **Siyavash Joukar**, Ahmad Beik, Maryam Iranpour and Zeinab Kordestani
Perillyle alcohol and Quercetin ameliorate monocrotaline-induced pulmonary artery hypertension in rats through PARP1- mediated miR-204 down-regulation and its downstream pathway. *BMC Complementary Medicine and Therapies* (2020) 20:218: 1-12.
62. Najafipour H, Rostamzadeh F, Yeganeh-Hajahmadi M, **Joukar S**. Improvement of cardiac function in rats with myocardial infarction by low- to moderate-intensity endurance exercise is associated with normalization of Klotho and SIRT1. *J Cardiovasc Pharmacol*. 2021 Jan 1;77(1):79-86.
63. Beik A, Najafipour H, **Joukar S**. Rajabi S, Ahmad a , Iranpour M, Kordestani Z. Perilyl alcohol supresses monocrotaline-induced pulmonary arterial hypertension in rats via anti-remodeling, anti-oxidant, and anti-inflamatory effects. *Clin Exp Hypertens*. 2021 Apr 3;43(3):270-280.
64. Rajabi S, Najafipour H, Jafarinejad-Farsangi S, **Joukar S**, Beik A, Askaripour M, Jafari E, Safi Z. Quercetin, Perillyl Alcohol, and Berberine Ameliorate Right Ventricular Disorders in Experimental Pulmonary Arterial Hypertension: Effects on miR-204, miR-27a, Fibrotic, Apoptotic, and Inflammatory Factors *J Cardiovasc Pharmacol*. 2021 Jun 1;77(6):777-786.
65. Alavi SS, **Joukar S**, Rostamzadeh F, Najafipour H, Darvishzadeh-Mahani F, Mortezaeizade A. Involvement of Sirtuins and Klotho in Cardioprotective Effects of Exercise Training Against Waterpipe Tobacco Smoking-Induced Heart Dysfunction. *Front Physiol*. 2021 Jul 20;12:680005.
66. **Joukar S**. A comparative review on heart ion channels, action potentials and electrocardiogram in rodents and human: extrapolation of experimental insights to clinic. *Lab Anim Res*. 2021 Sep 8;37(1):25.
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67. Sadeghifar A, Sheibani M, Joukar S, Dabiri S, Alavi S, Azari O, Vosoghi D, Zeynali Y, Zeynali Y, Shahraki M, Torghabe A, Rostamzadeh F, Nasri A. The Effect of Waterpipe Tobacco Smoking on Bone Healing Following Femoral Fractures in Male Rats. *Front Surg*. 2021 Oct 4;8:722446
68. Motevalian M, **Joukar S**, Esmaeili-Mahani S, Karimi A, Masoumi-Ardakani Y, Safari S. Interaction of high-intensity endurance exercise and nandrolone on cardiac remodeling: role of adipo-cardiac axis. *Horm Mol Biol Clin Investig*. 2021 Nov 16;43(1):63-70.
69. Alavi SS, **Joukar S**, Rostamzadeh F, Najafipour H, Darvishzadeh-Mahani F, Mortezaeizade A. Exercise Training Attenuates Cardiac Vulnerability and Promotes Cardiac Resistance to Isoproterenol-Induced Injury Following Hookah Smoke Inhalation in Male Rats: Role of Klotho and Sirtuins. *Cardiovasc Toxicol*. 2022 Mar 22. doi: 10.1007/s12012-022-09733-x.
70. Mahdavi N, **Joukar S**, Najafipour H, Naderi-boldaji V. Promotion of aging heart function and its redox balance following hind-limb blood flow restriction plus endurance exercise training in rats: Klotho and PGC1- α as involving candidate molecules. *Pflügers Archiv - European Journal of Physiology*, 2022, in press
71. Beik A, Najafipour H, **Joukar S**, Rajabi S, Masoumi-Ardakani Y, Dabiri S, Ziasistani M. Beneficial effects of berberine against pulmonary complications of experimental pulmonary arterial hypertension in rats and some relevant mechanisms. *Pulm Circ*. 2023 Jan 1;13(1):e12207. doi: 10.1002/pul2.12207. eCollection 2023 Jan.
72. Taghipour M, **Joukar S**, Sadat Alavi S, Mohammadi F, Asadi-Shekari M, Alibolandi Z. Endurance Exercise Training Attenuates the Waterpipe Smoke Inhaling-Induced Learning and Memory Impairment in Rats: Role of Neurotrophic Factors and Apoptotic System. *Nicotine Tob Res*. 2023 Nov 22;25(12):1865-1874. doi: 10.1093/ntr/ntad101.
73. Salarkia E, Mehdipoor M, Molaakbari E, Khosravi A, Sazegar MR, Salari Z, Rad I, Dabiri S, **Joukar S**, Sharifi I, Ren G. Exploring mesoporous silica nanoparticles as oral insulin carriers: *In-silico* and *in vivo* evaluation. *Heliyon*. 2023 Sep 26;9(10):e20430. doi: 10.1016/j.heliyon.2023.e20430. eCollection 2023 Oct.
74. Rajizadeh MA, Khoramipour K, **Joukar S**, Darvishzadeh-Mahani F, Iranpour M, Bejeshk MA, Zaboli MD. Lung molecular and histological changes in type 2 diabetic rats and its improvement by high-intensity interval training. *Pulm Med*. 2024 Jan 17;24(1):37. doi: 10.1186/s12890-024-02840-1.
75. **Joukar S**, Rajizadeh MA, Bejeshk MA, Alavi SS, Bagheri F, Rami M, Khoramipour K. ATP releasing channels and the ameliorative effects of high intensity interval training
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- **Papers presented in International and National Congresses**

1. Abolfathi Y., **Joukar S.**, Epidemiology Assessment of falling and Relative injury in aging. National Congress of Gerontology and Geriatrics, Isfahan University of Medical Sciences, Iran 2004
2. Shahrokhi N. Khaksary M. Shabani M. **Joukar S.** rezaizadeh R. The effect of feeding nastritium offisinalis water extract on plasma lipid and glucose in Experimental Diabete. 18th Iranian Congress of Physiology & Pharmacology Mashhad-Iran 2007.
3. **Joukar S.** The effect of morphine dependence on seizures induced by GABA_A antagonist in rat. The student corner of 17th Iranian Congress of Physiology & Pharmacology, Kerman University of Medical Science 2005.
4. **Joukar S.**, Najafipour H, Mirzaeipour F and Nasri H R. Incidence and severity of cardiac arrhythmia in passive opium smoking rabbits with and without cardiac ischemia and hypercholesterolemia. International congress of physiological sciences, Kyoto- Japan 2009.
5. **Joukar S.**, Najafipour H, Mirzaeipour F and Nasri H R. The effect of passive opium smoking on ECG, incidence and severity of cardiac arrhythmia in rabbit with cardiac ischemia and hypercholesterolemia. 19th Iranian congress of physiology and pharmacology, Tehran- Iran 2009.
7. **Siyavash Joukar** , Hamid Najafipour , Mohammad Khaksari , Gholamreza Sepehri , Nader Shahrokhi. The Effect of Saffron Consumption on Biochemical and Histopathological Heart Indices of Rats with Myocardial Injury. 11th Iranian Nutrition Congress Shiraz-Iran 2010
8. **Joukar S.**, Najafipour H., Dabiri S., Sheibani V., Esmaeili-Mahani S., Ghotbi P., Bashiri H., Amanallahi F., Joukar F. Chronic co-administration of morphine and calcium channel antagonists ameliorates isoproterenol-induced myocardial injury in rats. 1st National Seminar on the role of Basic Sciences on Health Promotion Tehran, March 9-10, 2011
- 9- **Siyavash Joukar**, Hamideh Bashiri, Separate and combined effects of long-term black tea and nicotine on cardiovascular parameters and heart resistance to myocardial injury in rat. Turkish FEPS Physiology Congress, September 3-7, 2011 Istanbul.
- 10- **Siyavash Joukar**, Hamid Najafipour, Hamideh Bashiri. The effect of long-term administration of black tea and nicotine on plasma

lipid profile and antioxidant levels of heart tissue in rat. 20th Iranian Congress of Physiology & Pharmacology Hamadan-Iran 2011

11. **Siyavash Joukar**, Electrocardiogram alterations following one-week consumption of crocus sativus L. (saffron). The 17th National and 5 International Iranian Biology Conference, September 4-6, 2012, Shahid Bahonar University of Kerman, Iran.

12. **Siyavash Joukar**, Elham Ghasemipour-Afshar, Mohammad Sheibani, Nooshin Naghsh, Alireza Bashiri, Ameliorative effect of saffron (crocus sativus L.) against reperfusion-induced cardiac arrhythmias in rat. The 17th National and 5 International Iranian Biology Conference, September 4-6, 2012, Shahid Bahonar University of Kerman, Iran.

13. **Siyavash Joukar**, Masoumeh Askarzadeh, Baydolah Shahouzehi, Hossein Fathpour, The effects of alcoholic extract administration of Rosa damascena and Quercus infectoria on heart performance and atherogenesis in normo and hyperlipidemic rabbits. The 17th National and 5 International Iranian Biology Conference, September 4-6, 2012, Shahid Bahonar University of Kerman, Iran.

14. **Siyavash Joukar**, Naser Mahdavy, Hamid Najafipour: Aqueous extract of barberry is more effective than sildenafil to treatment of experimental pulmonary hypertension. 21th International Iranian Congress of Physiology & Pharmacology, 23-27 August 2013, Tabriz-Iran.

15. Naser Mahdavy, **Siyavash Joukar**, Hamid Najafipour: The effect of Barberry consumption on Monocrotaline-induced pulmonary arterial hypertension in rat. 21th International Iranian Congress of Physiology & Pharmacology, 23-27 August 2013, Tabriz-Iran.

16. Abbas Afsharipour- Hamid Najafipour - Mansour Moazen Zadeh Mohammad Khaksari-**Siyavash Joukar**-Elham Abbasloom: Check the status of people's physical activity, 15 - 75 years old and its relation with risk factors of heart disease - Coronary in Kerman in 2011-2012. 21th International Iranian Congress of Physiology & Pharmacology, 23-27 August 2013, Tabriz-Iran.

17. **Siyavash Joukar**, Soodabe Ghorbani - shahrbabaky, Vahid Sheibania, Vahid Hajalia, Nooshin Naghshd. The effect of REM sleep deprivation on blood pressure and susceptibility to fatal ventricular Arrhythmia in animal model- 1th Middle East Congress of Preventive Cardiology, 29 Jan-1 Feb 2013, Shiraz, Iran

18. **Siyavash Joukar**, Fateme Binayi, Hamid Najafipour, Ali Karimi, Farzane Abdollahi, Yaser Masumi. The modulatory effect of moderate endurance swimming exercise on myocardial remodeling and redox system

responses to chronic using high dose of nandrolone decanoate-3rd
International Preventive Cardiology Congress, 3-5 October 2014, Shiraz,
Iran

19. Farzane Abdollahi, **Siyavash Joukar**, Fateme Binayi, Hamid Najafipour, Ali Karimi, Yaser Masumi. Effect of high intensity endurance exercise on myocardial remodeling and redox system responses to high dose of nandrolone decanoate. 22th International Iranian Congress of Physiology & Pharmacology, 17 -21 September 2015, Kashan, Iran.

20. Fateme Binayi, **Siyavash Joukar**, Hamid Najafipour, Abdollah Karimi, Farzane Abdollahi, Mona Rahdar. Effect of nandrolone decanoate along with mild swimming exercise on susceptibility to ventricular arrhythmia in rat. 22th International Iranian Congress of Physiology & Pharmacology, 17 -21 September 2015, Kashan, Iran.

21. **Siyavash Joukar**, Farzane Abdollahi, Fateme Binayi, Hamid Najafipour, Abdollah Karimi. Chronic consumption of nandrolone decanoate along with high intensity exercise increases the risk of ventricular fibrillation. 22th International Iranian Congress of Physiology & Pharmacology, 17 -21 September 2015, Kashan, Iran.

22. Mahboobeh Yeganeh Hajahmadi, Hamid Najafipour, Farzaneh Rostamzadeh, **Siavash Joukar**. Role of kappa opioid receptors in apelin dependent lowering of blood pressure in renovascular hypertensive rats. 22th International Iranian Congress of Physiology & Pharmacology, 17 -21 September 2015, Kashan, Iran.

23. Nasrin Hushmani, Hamid Njafipour, **Siyavash Joukar**, Elham Abdi. Effect of interleukin 27 and 35 and their role in mediating the action of IGF-1 on inflammation in chronically-inflamed rat knee joint. 22th International Iranian Congress of Physiology & Pharmacology, 17 -21 September 2015, Kashan, Iran.

24. **Siyavash Joukar**, Vida Naderi- Boldaji, Alireza Raji-Amirhasani , Mohammad- Abbas Bejeshk. Combination of low intensity aerobic training and blood flow restriction improves the cardiac function and leads to heart physiological remodeling in old rats. 2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 15-18 Feb. 2018.

25. Mohammad Abbas Bejeshk , **Siyavash Joukar**, Mohammad Amin Rajizadeh, Alireza Raji-amirhasani. The effect of limb blood flow restriction and endurance exercise on histological indices, angiotensin II and apelin reseptors in aorta of old male rats. 2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Chabahr, Iran, 15-18 Feb. 2018.

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26. Alireza Raji-amirhasani, **Siyavash Joukar**, Vida Naderi- Boldaji. Mild exercise along with limb-blood flow restriction modulates the electrocardiogram, angiotensin and apelin receptors of heart in aging rats. 2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran, 15-18 Feb. 2018.
27. Vida Naderi- Boldaji, **Siyavash Joukar**, Alireza Raji-amirhasani. The investigation of the histological changes and heart resistance of old male rats to ischemia following lower limb blood flow restriction along with low intensity endurance exercise. 2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Chabahar, Iran, 15-18 Feb. 2018.
28. **Joukar S, et al.** Exercise training mitigates the heart dysfunction and lung inflammatory response induced by exposing to waterpipe tobacco smoke. 24th Iranian and 3th international Congress of Physiology and Pharmacology, Tehran, I.R. Iran, 30 Oct – 01 Nov 2019.
29. **Joukar S, et al.** Hookah smoke delays bone healing following femoral fracture in male rats, 25th Iranian and 4th international Congress of Physiology and Pharmacology, Tehran, I.R. Iran, 20-22 Oct 2021
30. **Siyavash Joukar**, Vida Naderi- Boldaji, Alireza Raji-Amirhasani, Mohammad- Abbas Bejeshk, Naser Mahdavi., Rejuvenation Effect of Blood Flow Restriction along With Low-Intensity Exercise Training on the Aged Cardiovascular System .5th International and 26th national Congress of Physiology and Pharmacology of Iran, Semnan, I.R. Iran, 11-13 Oct 2023.
31. Firuzeh Badreh, **Siyavash Joukar**, Mohammad Badavi, Mohammad Rashno, Fasting attenuates age dependent hypertension: Restoration of the renin–angiotensin system balance and longevity proteins. 5th International and 26th national Congress of Physiology and Pharmacology of Iran, Semnan, I.R. Iran, 11-13 Oct 2023.
32. Samaneh Sadat Alavi, **Siyavash Joukar**, Hussein Iranpour, Farzaneh Rostamzadeh, Maryam Hosseini The effect of hookah smoke alone and along with endurance exercise on heart rate variability in rats. 5th International and 26th national Congress of Physiology and Pharmacology of Iran, Semnan, I.R. Iran, 11-13 Oct 2023.

- **Research activities (Plans colleague or design's executive):**

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1. Atapour N., **Joukar S.**, Kalantaripour T.P. The effect of morphine dependence on seizures induced by GABA_A antagonist in rat. Finished 2001
 2. Najafipour H., **Joukar S.**, Mirzaiepour F., Nasri H.R. Short and long term effects of passive opium smoking on cholestrol, arterial blood pressure, cardiac contractility and cardiac resistance to ischemia in normal and hypercholesterolemic rabbits. Finished 2009
 3. **Joukar S.**, Najafipour H., Khaksari M., Sepehri Gh., Shahrokhi N. et al. The effect of oral consumption Crocus sativus (saffron) on heart injury indexes and cellular free radical scavenging systems in rat. In process of execution 2009.
 4. **Joukar S.**, Najafipour H., Sheibani V., Esmaeili S., Joukar F. et al. The effect of concurrency chronic morphine and calcium channel blockers administration on heart rate, blood pressure and heart resistance to ischemic condition in Rat. In process of execution 2009.
 5. **Joukar S.**, Najafipour H., Badinloo M., The effect of Semelil (angipars) on some hemodynamic indices, Ventricular arrhythmias severity and heart injury after ischemia - reperfusion in rabbit. In process of proposal ratification. 2009.
 - 6- **Joukar S.**, Najafipour H., Bashiri H, The effect of concurrent chronic nicotine and black tea administration on plasma lipid profile and heart tissue antioxidants of rats with normal and ischemic heart. 2011.
 7. **Joukar S.**, Sarvazad A, et al The effect of concurrent chronic nicotine and black tea administration on heart rate, blood pressure, heart contractility and resistance to ischemic condition in Rat. 2011.
 8. **Joukar S.**, Esmaeli Mahani S, et al. The effect of chronic morphine administration concurrent or without verapamil on $\alpha 1c$ subunit of L-type voltage-dependent Ca²⁺ Channel in Rat heart. 2010.
 9. **Joukar S.**, et al. The effect of oral consumption of Mumie (Mumijo) on total antioxidants of heart tissue, hemodynamic indices, heart contractility and heart resistance to ischemia in rat in face of isoproterenol induced myocardial injury. 2014.
 10. **Joukar S.**, et al. The effect of oral consumption of Crocus sativus (saffron) on incidence of ventricular arrhythmia induced by ischemia-reperfusion of heart in rat. 2012.
 11. **Joukar S.**, et al. The effect of REM sleep deprivation on susceptibility to

ventricular arrhythmia in rat. 2012.

12. **Joukar S., et al.** The effect of alcoholic extract administration of *Rosa damascena* and *Quercus infectoria* on blood pressure, heart rate and contractility, diastolic relaxation and myocardial oxygen consumption indices of heart in normo and hyperlipidemic rabbits. 2012.

13. **Joukar S., et al.** The effect of oral consumption of *Melissa officinalis* (lemon balm) aqueous extract on total antioxidants of heart tissue hemodynamic indices, heart contractility and heart resistance to ischemia in rat. 2013.

14. **Joukar S., et al.** The effect of *Melissa officinalis* (lemon balm) aqueous extract on incidence of ventricular arrhythmia induced by heart ischemia-reperfusion in rat. 2013.

15. **Joukar S., et al.,** The effect of concurrency chronic nicotine and black tea administration on susceptibility to ventricular arrhythmia in rat. 2013.

16. **Joukar S.,** The effect of concurrent chronic nicotine and black tea administration on cardiomyocyte cross-sectional area and interstitial fibrosis of heart muscle in Rat. 2013.

17. **Joukar S., et al.,** The comparison effect of Aqueous Extract of *Berberis vulgaris* with Sildenafil on Monocrotaline-induced pulmonary arterial hypertensive male rats: assessment of some hemodynamic, histological and biochemical indices. 2013.

18. **Joukar S., et al.,** The effect of walnut alcoholic extract administration on dexamethasone induced hypertension in rat: evaluation the possible role of NO and antioxidant systems. 2014.

19. **Joukar S., et al.,** The Effect of low aerobic exercise along with chronic administration of nandrolone decanoate on susceptibility to ventricular arrhythmia in rat, 2013.

18. **Joukar S., et al.,** The Effect of chronic administration of nandrolone decanoate along with moderate endurance exercise on susceptibility to threatening ventricular arrhythmia in rat, 2014.

19. **Joukar S., et al.,** The Effect of chronic administration of nandrolone decanoate along with severe incremental endurance exercise on susceptibility to threatening ventricular arrhythmia in rat. 2014.

20. **Joukar S., et al.,** The Effect of chronic administration of nandrolone decanoate along with low endurance exercise on the levels of TNF- α ,

adiponectin and its receptors expression in heart muscle of rat. 2014.

21. **Joukar S.**, et al., The Effect of chronic administration of nandrolone decanoate along with high intensity endurance exercise on the levels of TNF- α , adiponectin and its receptors expression in heart muscle of rat. 2014.

22. **Joukar S.**, et al., The Effect of endurance and resistance exercise on chronic nandrolone decanoate-induced brain injury in rat. 2014

23. **Joukar S.**, et al., Investigation the effects of low intensity endurance training with blood flow restriction on the values of nicotinic acetylcholine receptors, Musk & LRP4 proteins in skeletal muscles of the old male rat. 2015.

24. **Joukar S.**, et al., The investigation of the histological changes and heart resistance of old male rats to ischemia following lower limb blood flow restriction along with low intensity endurance exercise - study of some plausible signaling pathways. 2015.

25. **Joukar S.**, et al., The Effect of chronic administration of nandrolone decanoate along with low and high intensity endurance exercise on heart histological and electrocardiogram parameters in male rat. 2015.

26. **Joukar S.**, et al., Investigation the effects of blood flow restriction in lower extrimities along with endurance exercise on the electrocardiogram alterations, hypertrophy, expression of angiotensin II and appelin receptors of heart in old male rats. 2016

27. **Joukar S.**, et al., The effect of lower limb blood flow restriction and endurance exercise on Histologic index, angiotensin II and apelin reseptrs in aortic old male rats. 2016.

28. **Joukar S.**, et al., Comparison of the effects of two various models of fasting in different ages on blood pressure, electrocardiogram, insulin resistance, expression of some proteins affecting longevity and cardiovascular system performance in male rats. 2016.

29. **Joukar S., et al.**, The effect of eight weeks of swimming endurance training along with tobacco smoke on blood pressure, electrocardiogram and some biochemical and histological factors of lung and cardiovascular of male rat. 2017

30. **Joukar S., et al.**, The Effect of ten weeks low intensity endurance exercise with/without blood flow restriction on histology and values of BDNF, NGF, Sirt-1, PI3K, IGF1, Caspase-3, Caspase-7, VEGF, Bcl2

,Bax, AKT and total antioxidant capacity of hippocampus in male aging rats. 2018

31. **Joukar S., et al.**, The Effect of ten weeks low intensity endurance exercise with/without blood flow restriction on total antioxidant capacity of serum, Klotho, Sirt-1, IGF-1 and PGC-1 α proteins of serum and heart in male aging rats. 2018

32. **Joukar S., et al.**, Changes in cardiac function indices and protein levels of Bax,Bcl2, NLRP-1 , IL1 β ,IL10 , Pannexin-1 and P2x7R in cardiac tissue of rats with type 2 diabetes after 8-week high intensity interval training (HIIT), 2021.

33. **Joukar S., et al.**, T he effect of 8-week high intensity interval training on inflammatory, oxidative , apoptotic and histopathological indices in lung of rats with type 2 diabetes, 2021.

34. Joukar s., Doostaki M. et al. Investigating the effect of eight-week low-intensity endurance training with lower limb blood flow restriction on arterial blood pressure, heart performance, and serum levels of PGC1-a, Klotho and nitric oxide metabolites in patients with mild hypertension, 2023

35.**Joukar S.**, Arab AM., Abdolalizadeh M. et al. Effects of percutaneous auricular vagus nerve stimulation in chronic widespread myofascial low back and cervical pain syndrome. 2023

36. **Joukar S.**, Arab AM., Khosravi F.Effect of vagues nerve stimulation on lumbopelvic myofascial pain syndrome with chronic functional constipation. 2023.

37.**Joukar s**, Restamzadeh F. Review of studies on Klotho and sirtuins changes in sleep disorders and their role in cardiovascular diseases related to sleep disorders. 2023

38.**Joukar S.**, Payandeh A. et al. Investigation the Effect of Eight Weeks of High-Intensity Interval Training on Electrocardiogram parameters and Heart Rate Variability in Rats with type II Diabetes. 2024

39. **Joukar S**, Aminian A, Khazaei et al. Investigating and comparing the effect of using 5-fluorouracil drug with its nano particle form on the treatment of colon cancer model in mice: study of some inflammatory and oxidant indices. 2023

40. Karami mohajeri S, **Joukar S**, et al. Examining the Impact of Resveratrol and Piperine Combination on Doxorubicin-Induced Cardiotoxicity: Evaluation of Electrocardiographic Factors. 2024.

41. **Joukar S**, Raji amirhasani A. Investigation of the effects of exercise with blood flow restriction on cardiovascular responses and molecular changes

including the renin-angiotensin-apelin system, vascular growth factors, and hemostatic, oxidative stress and inflammatory responses: a narrative review study. 2024.

42. Joukar S, Rahimi S, et al. Surveying the effect of Mit-Q and melatonin on cell death and apoptosis of HT29 colon cancer. 2024

• Thesis of Postgraduate and medical Students Supervised

1. **Ghorbani Shahrabaki S. (MS)**, The effect of REM sleep deprivation on susceptibility to ventricular arrhythmia in rat. 2012-2013. **(Supervisor)**
2. **Mahdavi N. (MS)**, The comparison effect of Aqueous Extract of Berberis vulgaris with Sildenafil on Monocrotaline-induced pulmonary arterial hypertensive male rats: assessment of some hemodynamic, histological and biochemical indices. 2014-2015. **(Supervisor)**
3. **Asadipour H. (MD)**, The effect of oral consumption of Melissa officinalis (lemon balm) aqueous extract on total antioxidants of heart tissue hemodynamic indices, heart contractility and heart resistance to ischemia in rat. 2013-2014. **(Supervisor)**
4. **Ghasemipour-Afshar E. (MS)**, The effect of oral consumption of Crocus sativus (saffron) on incidence of ventricular arrhythmia induced by ischemia-reperfusion of heart in rat. 201-2013. **(Supervisor)**
5. **Zarif Z. (MD)**, The effect of Melissa officinalis(lemon balm) aqueous extract on incidence of ventricular arrhythmia induced by heart ischemia-reperfusion in rat. 2013-2014. **(Supervisor)**
6. **Askarzadeh M. (MSc)**, The effect of alcoholic extract administration of Rosa damascena and Quercus infectoria on blood pressure, heart rate and contractility, diastolic relaxation and myocardial oxygen consumption indices of heart in normo and hyperlipidemic rabbits.2012-2013. **(Supervisor)**
7. **Binayi F. (MSc)**, The Effect of chronic administration of nandrolone decanoate along with moderate endurance exercise on susceptibility to threatening ventricular arrhythmia in rat. 2014-2015. **(Supervisor)**
8. **Eslami A. (MSc)**, The role of GABAergic system on anticonvulsant effects of walnut extract in rat. 2013-2014. **(Advisor)**
9. **Mahmmodi R. (MSc)**. The Effects of Shilajit on Brain Edema, Intracranial Pressure and Neurologic Outcomes following the Traumatic Brain Injury in Rat. 2012-2013.**(Advisor)**

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- 10. Ghorbani Baravati H. (MSc)** The Effect of aerobic exercise along with chronic administration of nandrolone decanoate on susceptibility to ventricular arrhythmia in rat. 2013- 2014. (**Supervisor**)
- 11. Ebrahimi S. (MD).** The effect of walnut alcoholic extract administration on dexamethasone induced hypertension in rat: evaluation the possible role of NO and antioxidant systems. 2014-2015. (**Supervisor**)
- 12. Abdollahi F. (MSc)** The Effect of chronic administration of nandrolone decanoate along with severe incremental endurance exercise on susceptibility to threatening ventricular arrhythmia in rat. 2014-2015. (**Supervisor**)
- 13. Karimi A. (MSc)** The Effect of chronic administration of nandrolone decanoate along with low endurance exercise on the levels of TNF- α , adiponectin and its receptors expression in heart muscle of rat. 2015-2016. (**Supervisor**)
- 14. Bahreini M.A., (PhD),** Investigation the effects of low intensity endurance training with blood flow restriction on the values of nicotinic acetylcholine receptors, Musk & LRP4 proteins in skeletal muscles of the old male rat. 2015-2017. (**Supervisor**)
- 15. Kheradmand H. (Specialist MD)** Investigation the effect of amiodarone and atorvastatin simultaneous administration on amiodarone induced lung fibrosis in rats. 2014. (**Advisor**)
- 16. Naderi V., (PhD).** The investigation of the histological changes and heart resistance of old male rats to ischemia following lower limb blood flow restriction along with low intensity endurance exercise - study of some plausible signaling pathways. 2015-2017. (**Supervisor**)
- 17. Mehdieh Yosefnia –Babaki (MD).** The Effect of chronic administration of nandrolone decanoate along with low and high intensity endurance exercise on heart histological and electrocardiogram parameters in male rat. 2015. (**Supervisor**).

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- 18. Alireza Raji Amirhasani (MSc).** Investigation the effects of blood flow restriction in lower extremities along with endurance exercise on the electrocardiogram alterations, hypertrophy, expression of angiotensin II and apelin receptors of heart in old male rats. 2015-2016. (**Supervisor**)
- 19. Mohammad Sheibani (MD).** Investigation the effect of concurrency of chronic nicotine and black tea administration on autonomic system balance and heart rate variability in rat. 2016. (**Supervisor**)
- 20. Mohammad Abbas Bejeshk (MSc).** The investigation of histology and expression of angiotensin II and apelin receptors of aorta in old male rats following blood flow restriction in lower extremities along with endurance exercise. 2016-2017. (**Supervisor**)
- 21. Firoozeh Badreh (Ph.D).** Comparison of the effects of two various models of fasting in different ages on blood pressure, electrocardiogram, insulin resistance, expression of some proteins affecting longevity and cardiovascular system performance in male rats. 2016-2018. (**Supervisor**).
- 22. Jafar Ahmadi (MSc.).** The effect of Dihydroxyacetone against aluminum phosphide-induced acute toxicity in rat. 2017-2018 (**Advisor**).
- 23. Mohamad-reza Nakhaei (PhD).** The effect of eight weeks of swimming endurance training along with tobacco smoke on blood pressure, electrocardiogram and some biochemical and histological factors of lung and cardiovascular of male rat. (2017-2018). (**Supervisor**).
- 24. Naser Mahdavi (PhD).** The effect of low intensity endurance exercise with blood flow restriction of lower limbs on total antioxidant capacity and some biochemical factors in intact and isoproterenol-induced injured hearts in male aging rats (2018-2020) (**Supervisor**).
- 25. Samanehsadat Alavi (PhD).** Effect of narghile (waterpipe smoking) smoke alone and with moderate endurance exercise on

heart resistance to experimental ischemia in male rats: Investigation of some signaling pathways (2018-2020) (**Supervisor**).

26. Hossein Iranpour (MD). Investigation the effect of water pipe smoking alone and and with endurance exercise on heart rate variability in rat (2020- 2021) (**Supervisor**).

27. Mohsen Taghipour (MSc.). Investigation the effect of narghile (waterpipe smoking) smoke with moderate endurance exercise on spatial memory and some biochemical and histological parameters of hippocampus in male rats. (2020-2021) (**Supervisor**).

28. Ahmad Beik (PhD) The effects of quercetin, berberine and perillyl alcohol, alone/in combination, on experimental pulmonary arterial hypertension and some biochemical and histopathological indices of the lung in male rats (2016-2020) (**Advisor**).

29. Yousef Heydari (PharmD) Evaluation of the effect of vanillin on cardiovascular toxicity induced by aluminum phosphide in rats (2022-2023) (**Supervisor**).

30. Maryam Doostaki (PhD), Investigating the effect of eight-week low-intensity endurance training with lower limb blood flow restriction on arterial blood pressure, heart performance, and serum levels of PGC1- α , Klotho and nitric oxide metabolites in patients with mild hypertension (2022- (**Supervisor**).

31. Mahbobeh Abdolalizadeh (PhD), Effects of percutaneous auricular vagus nerve stimulation in chronic widespread myofascial low back and cervical pain syndrome. (2023- (**Advisor**).

32. Fariba Khosravi (PhD), Effect of vagus nerve stimulation on lumbopelvic myofascial pain syndrome with chronic functional constipation. (2023- (**Supervisor**).

33. Atefeh Payandeh (MD), Investigation the Effect of Eight Weeks of High-Intensity Interval Training on Electrocardiogram parameters and Heart Rate Variability in Rats with type II Diabetes. (2023- (**Supervisor**).

34. Akram Aminian (PhD), Investigating and comparing the effect of using 5-fluorouracil drug with its nano particle form on the treatment of colon cancer model in mice: study of some inflammatory and oxidant indices. (2023- (**Supervisor**).

35. Mohamad Koohzad (pharmD), Examining the Impact of Resveratrol and Piperine Combination on Doxorubicin-Induced Cardiotoxicity: Evaluation of Electrocardiographic Factors. (2023-2024) (**Advisor**).

36. **Farzaneh Rostamzadeh (PhD)**, Role of Kapa opioid receptors and their interaction with apelin receptors in positive and negative inotropic effects of apelin in the heart of rats with chronic renovascular hypertension (2014-2017) (**Advisor**).

37. **Mahboobeh Yeganeh Hajahmadi (PhD)**, Role of Kapa opioid receptors and their interaction with apelin receptors in cardiovascular effects of apelin in the heart of rats with acute renovascular hypertension (2014-2017) (**Advisor**).

38. **Mohammad Sheibani (Specialist MD)** Evaluation of union of femur fracture in rats with hookah addiction and control group (2019-2020) (**Advisor**).

39. **Soodeh Rajabi (PhD)**, Investigating the role of some microRNAs in mediating the effects of quercetin, berberine and perillyl alcohol in the heart and lungs of male rats with experimental pulmonary arterial hypertension (2016-2019) (**Advisor**).

Laboratory Setup and research methods

1. **Joukar S**, Najafipour H. Working Heart and Isolated Heart Setup
2. **Joukar S**, Asadi-shekar M. Eftekhar H. Formalin Administration Setup
3. **Joukar S**, Najafipour H. Educational and Research laboratory for Postgraduate Physiology Students
- 4- **Joukar S**, Small Rodents Swimming Pool
5. **Joukar S**, **Nakhaee MR**, Waterpipe Tobacco smoking Setup

The Number of National Research projects as invited referee

*** 205 Research projects

The Number of International and National Research Paper as Invited Reviewer

*** 75 Research paper

The Number of Thesis as invited referee

*** 48 Thesis

Instructed Credits course so far:

University	subject	Student field	Credit number	total
Kerman medical university	Medical Physiology (theory)	Medical Basic (MS, PhD), Medical, dentistry, pharmacy and sub medical	540	
Kazeroon and Kerman Islamic universities	Medical Physiology (theory and practical)	Medical and veterinary medicine	30	
International and Bam medical faculties	Medical Physiology (theory and practical)	Medical, dentistry, pharmacy and sub medical	44	
Sirjan medical faculties	Medical Physiology (theory)	Sub medical	20	
				634