

# **In the Name of GOD**

## **CURRICULUM VITAE (CV)**

**Zahra Soltani, PhD,**

**Associate Professor of Physiology**

### **-Present Position and Address:**

Associate Professor of Physiology,

Department of Physiology and Pharmacology, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran

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### **-Personal Information:**

**Name:** Zahra Soltani

**Sex:** Female

**Nationality:** Iranian

**Marital Status:** Married

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### **-Academic Training:**

M.Sc.in Medical Physiology, **Kerman University of Medical Sciences, Kerman, Iran**,  
Finished in 2008.

Ph.D. in Medical Physiology, **Kerman University of Medical Sciences, Kerman, Iran**,  
Finished in 2016.

Completion a one-year course in the pathophysiology of Medicine field , **Kerman University of Medical Sciences, Kerman, Iran**, Finished in 2022.

### **-Theses:**

1. M.Sc. Thesis Title: **Coadministration Effect of Estrogen and Progesterone on Brain Edema Induced by Trauma in Ovariectomized Female Rats: Changes of Cytokines and Aquaporin-4**
2. Ph.D. Thesis Title: **Evaluation of the Efficacy and Probable Mechanism of Progesterone on the Complications of Moderate and Severe Diffuse Traumatic Brain Injury in Patients Admitted in Shahid Bahonar Hospital of Kerman: A Clinical Trial**

### **-Honors**

1. Preponderant Researcher of Endocrine and Metabolism, Kerman, Iran, 2022.
2. Preponderant Student of Kerman University of Medical Sciences, Kerman, Iran, 2017.
3. Preponderant Researcher of Endocrine and Metabolism, Kerman, Iran, 2015.

### **-Responsibilities:**

Educational Vice Chancellor of Kerman University of Medical Sciences, Kerman, Iran, From 2018-Present

### **-Teaching Experience:**

For Iranian in BSc, MSc, MD and PhD levels:

\*Education of Physiology for Nutrition, Nursing, Radiology, Surgery Room, Anesthesia, Medical Emergencies, Physiotherapy, Laboratory Sciences, Dentistry, Pharmacy, Medicine, Midwifery, Hygiene, Biology, Toxicology, Physiology, Medicinal chemistry, Mycology, Biology of aging, Ergonomic, Health Information Technology, Exercise Physiology and Medical Physiology Students

For International in MD and MBBS:

Dentistry, Pharmacy, Medicine

## **- Research Items:**

1. The Effect of Sex Hormones on TBI Outcome
2. The Effect of Phytoestrogens on TBI Outcome
3. The Effect of Exercise on TBI Outcome
4. The Effect of Plants on TBI Outcome
4. The Effect of Stem Cells on TBI Outcome
5. Sex Differences in Chronic Renal Failure Outcome
6. The Effect of Exercise and Feeding on C
7. Clock Genes and Chronic Renal Failure Outcome
8. Sex Differences in Diabetic Nephropathy

## **-Skills:**

- \*Rat and Rabbit Handling
- \*Diffuse Traumatic Brain Injury (TBI) Induction Method in Rat
- \*Measurement of Tissue Water Content in Rat
- \*Determination of Blood Tissue Barrier Permeability in Rat
- \*Ovariectomy Technique in Rat
- \*Testisectomy Technique in Rat
- \*Renalectomy Technique in Rat
- \*Intracranial Pressure Measurement in Rat
- \*Noninvasive Blood Pressure Measurement in Rat
- \*Ovary Torsion Technique in Rat
- \*Bile Duct Ligation Technique in Animal
- \*ELISA Technique
- \*Noninvasive Tracheal Intubation in Animal
- \*Behavioral Evaluation in Animal in Rat
- \*SPSS Software in Animal
- \*End note Software in Animal
- \*Behavioral Tests in Animal
- \*Induction of Acute Renal Failure
- \*Induction of Chronic Renal Failure

\*Induction of Diabetic Nephropathy

\*Implement of Clinical Trial

### **-Professional History:**

1. Member of the admission committee for international students, Kerman University of Medical Sciences, Kerman, Iran, from 2017-Present
2. Member of Local Endocrine Research Committee, Kerman University of Medical Sciences, Kerman, Iran, from 2012-Present
3. Lab. Expert, Kerman University of Medical Sciences, Kerman, Iran, From 2009-2016
4. Physiology Teacher in Kerman University of Medical Sciences, Kerman, Iran, from 2008-Present
5. Member of Spiritual Health Center, Kerman University of Medical Sciences, Kerman, Iran, from 2017-Present
6. Collaboration in Establishment of Spiritual Health Center, Ph.D. of Exercise Physiology, Fellowship Aging Physiology, Kerman University of Medical Sciences, Kerman, Iran, 2017.
7. Member of Educational Council, Kerman University of Medical Sciences, Kerman, Iran, from 2018-Present
8. Secretary of Promotion Selection Committee, Kerman University of Medical Sciences, Kerman, Iran, from 2018-Present
9. Member of University Journals Evaluation Council, Kerman University of Medical Sciences, Kerman, Iran, from 2017-2023

### **-Teaching in Workshops:**

Measurement of Brain Water Content, Blood Brain Barrier, Intracranial Pressure, and Intubation in Rat, 2014.

Measurement of Brain Water Content, Blood Brain Barrier, Intracranial Pressure, and Intubation in Rat, 2017.

### **-Laboratory Setup and Research Methods**

1. **Soltani Zahra** and Khaksari Mohammad. Behavioral Setup (Beam Balance and Beam Walking)

2. **Soltani Zahra**, Khaksari Mohammad, Nozari Masoumeh and Amirkhosravi Ladan  
**Behavioral** Setup (Plus Maze, Morris Water Maze)
3. **Soltani Zahra** and Khaksari Mohammad. Cellular and Molecular Lab.

#### **-Lectures:**

1. 26th Iranian Congress of Physiology & Pharmacology (Symposium of New Findings in Neuroprotection, Kerman University of Medical Sciences), Semnan, Iran, 2023.
2. 25th Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 2021.
3. 3. 24th Iranian Congress of Physiology & Pharmacology, Tehran, Iran, 2019.
4. 8th Iranian Basic and Clinical Neuroscience Congress, Tehran, 2019 (Panel)
5. 24th Iranian Congress of Physiology & Pharmacology, Tehran, Iran. February 15-18, 2019 (Panel).
6. 8th Iranian Basic and Clinical Neuroscience Congress, Tehran, 2019 (Panel)
7. 23th Iranian Congress of Physiology & Pharmacology, Chabahr, Iran. February 15-18, 2018.
8. Symposium of New Findings in Neuroprotection, Kerman University of Medical Sciences, Kerman, Iran, 2018.
9. 7th Iranian Basic and Clinical Neuroscience Congress, Tehran, 2018 (Panel)

#### **-Training in Workshops and Congresses:**

1. 1. Certificate of 25<sup>th</sup> Iranian & 4th International Congress of Physiology and Pharmacology, Semnan, Iran, 2023.
2. Certificate of 3th International Neuroinflammation Congress and the 3th International Student Festival of Neuroscience, Mashhad, Iran. June 11- 13, 2019.
3. Certificate of 24<sup>th</sup> Iranian & 3th International Congress of Physiology and Pharmacology, Tehran, Iran. 30 Oct- 01 Nov, 2019.
4. Certificate of 8th Iranian Basic and Clinical Neuroscience Congress, Tehran, Iran. Des 18-20, 2019.

- 5.** Certificate of Electronic Education, Education Development Center, Kerman, Iran. July 2018.
- 6.** Certificate of Noting, Education Development Center, Kerman, Iran. July 2017.
- 7.** Certificate of Reasoning, Education Development Center, Kerman, Iran. July 2017.
- 8.** Certificate of Upgrading Faculty Members, Education Development Center, Kerman, Iran, 2017.
- 9.** Certificate of Research Ethics, Neuroscience Research Center, Kerman, Iran. July 2017.
- 10.** Certificate of Statistics, Neuroscience Research Center, Kerman, Iran. July 2017.
- 11.** Certificate of 23th Iranian Congress of Physiology & Pharmacology, Chabahar, Iran. February 15-18, 2018.
- 12.** Certificate of Western blot, Kerman, Iran. December 2014.
- 13.** Certificate of 5th Congress Basic and Clinical Neuroscience, Tehran, Iran. December 2016.
- 14.** Certificate of 22th Iranian Congress of Physiology & Pharmacology, Kashan, Iran. September 7-11, 2015.
- 15.** Certificate of the 10th International Congress of Endocrine Disorders, Shaheed Beheshti International Convention Center, Tehran, Iran. October 22-24, 2014.
- 16.** Certificate of 21th Iranian Congress of Physiology & Pharmacology, Tabriz, Iran. August 23-27, 2013.
- 17.** Certificate of 19th Iranian Congress of Physiology & Pharmacology, Tehran, Iran. November 3-6, 2009.
- 18.** Certificate of 15<sup>th</sup> Iranian Congress of Neurology and Clinical Electrophysiology, Tehran, Iran. May 27-30, 2008
- 19.** Certificate of 18th Iranian Congress of Physiology & Pharmacology, Mashhad, Iran. August 26-30, 2007
- 20.** Certificate of 17th Iranian Congress of Physiology & Pharmacology, Kerman, Iran. October 14-17, 2005
- 21.** Certificate of Writing Article in Qualitative Research, Kerman University of Medical Science, Iran 2016
- 22.** Certificate of PowerPoint 2013, Kerman University of Medical Science, Iran 2015

- 23.**Certificate of Excel Workshop Kerman University of Medical Science, Iran 2015
- 24.**Certificate of Search on Web, Kerman University of Medical Science, Iran 2015
- 25.**Certificate of Western Blot Workshop, Physiology Group, Kerman University of Medical Science, Iran 2015
- 26.**Certificate of Behavioral Studies in Neuroscience Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2013
- 27.**Certificate of Event Related Potentials Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2013
- 28.**Certificate of Extracellular Recording Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2013
- 29.**Certificate of educational process Workshop, Kerman University of Medical Science, Iran 2013
- 30.**Certificate of Advanced Article Writing Principle Workshop, Kerman University of Medical Science, Iran 2012
- 31.**Certificate of Lesson Planning Workshop, Kerman University of Medical Science, Iran 2012
- 32.**Certificate of PCR and Western Blot Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2009
- 33.**Certificate of Research in Education Workshop, Kerman University of Medical Science, Iran 2008
- 34.**Certificate of Research Method Workshop, Kerman University of Medical Science, Iran 2008
- 35.**Certificate of PCR Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2007
- 36.**Certificate of Cardiopulmonary Cerebral Resuscitation Workshop, Kerman University of Medical Science, Iran 2005
- 37.**Certificate of Gene Cloning Workshop, Kerman University of Medical Science, Iran 2010
- 38.**Certificate of Good Clinical Practice Workshop, Kerman University of Medical Science, Iran 2010

39. Certificate of Isolating and Working Heart Workshop, Kerman Physiology Research center, Kerman University of Medical Science, Iran 2010

## **-Published Articles in International and National Scientific and Research Journals:**

1. Mohammad Khaksari, Marzieh Shahryari , Alireza Raji-Amirhasani , Zahra Soltani , Bahram Bibak , Zakieh Keshavarzi , and Farzaneh Shakeri. Aloe vera Leaf Extract Reduced BBB Permeability and Improved Neurological Results after Traumatic Brain Injury: The Role of Oxidative Stress. *Oxidative Medicine and Cellular Longevity*. 2024.
2. Narjes Ebrahimnezhad, Shila Nayebifar, **Zahra Soltani**, Kayvan Khoramipour; High-intensity interval training reduced oxidative stress and apoptosis in the hippocampus of male rats with type 2 diabetes: The role of the PGC1 $\alpha$ -Keap1-Nrf2 signaling pathway. *Iranian Journal of Basic Medical Sciences*. 2023.
3. Mohammad Amin Rajizadeh, Amirhossein Moslemizadeh, Mahdieh Sadat Hosseini, Forouzan Rafiei, Zahra Soltani & Kayvan Khoramipour. Adiponectin receptor 1 could explain the sex differences in molecular basis of cognitive improvements induced by exercise raining in type 2 diabetic rats. *Scientific Reports*. 2023.
4. Kayvan Khoramipour, Maryam Hossein Rezaei, Elham Madadizadeh, Mahdieh Sadat Hosseini, **Zahra Soltani**, Janis Schierbauer, Othmar Moser. High Intensity Interval Training can Ameliorate Hypothalamic Appetite Regulation in Male Rats with Type 2 Diabetes: The Role of Leptin. *Cellular and Molecular Neurobiology*. 2023.
5. Eshagh Alizadeh, Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari, Elham Jafari, Saeed Karamouzian. The administration of oral mucosal mesenchymal-derived stem cells improves hepatic inflammation, oxidative stress, and histopathology following traumatic brain injury. *Transplant Immunology*. 2023.
6. Nazanin Sabet, Banafshe Abadi, Amirhossein Moslemizadeh, Mohammad Amin Rajizadeh, Fatemeh Arabzadeh, Seyyed Sajjad Vakili Shahrababaki, **Zahra Soltani**, Forouzan Rafie, Hamideh Bashiri. The effect of low- and moderate-intensity interval training on cognitive behaviors of male and female rats with VPA-induced autism. *Heliyon*. 2023.
7. Alireza Raji-Amirhasani, Mohammad Khaksari, **Zahra Soltani**, Shadan Saberi, Maryam Iranpour, Fatemeh Darvishzadeh Mahani, Zahra Hajializadeh, Nazanin Sabet. Beneficial Effects of Time and Calorie Restriction Diets on the Development of Experimental Acute Kidney Injury in Rat: Bax/Bcl-2 and Histopathological Evaluation. *BMC nephrology*. 2023.



8. Forouzan Rafie, Mohammad Khaksari, Sedigheh Amiresmaili, **Zahra Soltani**, Mohammad Pourranjbar, Sara Shirazpour & Elham Jafari. Protective effects of early exercise on neuroinflammation, and neurotoxicity associated by traumatic brain injury: a behavioral and neurochemical approach. *International Journal of Neuroscience*. 2022.
9. Maryam Radavi-Asgar, Nazanin Sabet, Mohammad Khaksari, Elham Jafari, **Zahra Soltani** and Fatemeh Dehghanian. The Prescription of Oral Mucosal Mesenchymal Stem Cells post Traumatic Brain Injury Improved the Kidney and Heart Inflammation and Oxidative Stress. *BioMed Research International*. 2022.
10. Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari, Maryam Iranpour, Fatemeh Mousavi, Reza Malekpour Afshar, Alireza Raji-Amirhasani. The effect of two types of diet on apoptosis indexes, lipid profile and histopathological outcome in acute kidney injury during exercise training. *BMC nephrology*. 2022.
11. Batool Tirgari, Mohammad Khaksari, **Zahra Soltani**, Moghaddameh Mirzaee, Shadan Saberi, Hamideh Bashiri. Spiritual Well-being in Patients with Chronic Diseases: A Systematic Review and Meta-analysis. *Journal of Religion and Health*. 2022.
12. Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari, Alireza Raji-Amirhasani. The effects of two different dietary regimens during exercise on outcome of experimental acute kidney injury. *Journal of inflammation*. 2022.
13. Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari. The effect of exercise on kidney injury. *Molecular biology reports*. 2022.
14. Alireza Raji-Amirhasani, Mohammad Khaksari, Nader Shahrokhi, **Zahra Soltani**, Mahdieh Nazari-Robati, Fatemeh Darvishzadeh Mahani, Zahra Hajjalizadeh, Nazanin Sabet. Comparison of the effects of different dietary regimens on susceptibility to experimental acute kidney injury: The roles of SIRT1 and TGF-b1. *Nutrition*. 2022.
15. Fatemeh Dehghanian, **Zahra Soltani**, Alireza Farsinejad, Mohammad Khaksari, Elham Jafari, Ali Darakhshani, Nazanin Sabet, Hamideh Bashiri. The Effect of Oral Mucosal Mesenchymal Stem Cells on Pathological and Long-Term Outcomes in Experimental Traumatic Brain Injury. *Biomed research international*. 2022.
16. Fatemeh Darvishzadeh Mahani, Mohammad Khaksari, Maryam Iranpour, **Zahra Soltani**, Alireza Raji-Amirhasani, Zahra Hajjalizadeh. Effects of caloric and time restriction diets on kidney health in rat model of postmenopausal acute kidney injury: An apoptosis and histopathological study. *Iranian Journal of Basic Medical Sciences*. 2022.

17. Fatemeh Farahani, Mohammad Khaksari, Sedigheh Amiresmaili, Maryam Iranpour, Nader Shahrokhi, Gholamreza AsadiKaram, **Zahra Soltani**. Possible involvement of female sex steroid hormones in intracellular signal transduction mediated by cytokines following traumatic brain injury. *Brain Research Bulletin*. 2022.
18. Mohammad Khaksari, Zahra Hajializadeh, Saeed Esmaeili Mahani, **Zahra Soltani** and Gholamreza Asadikaram. Estrogen receptor agonists induce anti-edema effects by altering  $\alpha$  and  $\beta$  estrogen receptor gene expression. *Acta Neurobiol Exp*. 2021.
19. Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari. Multipotential and systemic effects of traumatic brain injury. *Journal of Neuroimmunology*. 2021.
20. Ahmad Alinaghi Langari, Nazanin Sabet, Hamideh Bashiri, Sobhan Mohammadi Jorjafki, Reyhaneh Rezaie, Nafise Esmaeilpour, Sedigheh Amiresmaili, Mohammad Khaksari, Shahryar Dabiri, Mahmoud Amiri, **Zahra Soltani**. Does vitamin D administration increase the neuroprotective effect of estrogen in male rats with traumatic brain injury?? *Journal of kerman university of medical sciences*.2021.
21. Mohammad Khaksari, Nazanin Sabet, **Zahra Soltani**, Hamideh Bashiri. Gender-Related Response of Body Systems in COVID-1 Affects Outcome. *Russian journal of infection and immunity*.2021.
22. Shahrzad Sadat Eftekhar Vaghefi, Fatemeh Mousavi, Mohammad Khaksari, Gholamreza Asadikaram, **Zahra Soltani**. Sex-related Changes in Circadian Rhythm of Inflammatory and Oxidative Stress Markers in CKD. *Iranian journal of kidney diseases*. 2021.
23. Ladan Amirkhosravi, Mohammad Khaksari, **Zahra Soltani**, Saeed Esmaeili-Mahani, Gholamreza Asadi Karam, Mojtaba Hoseini. E2-BSA and G1 exert neuroprotective effects and improve behavioral abnormalities following traumatic brain injury: The role of classic and nonclassic estrogen receptors. *Brain Research* 2020.
24. Fatemeh Dehghanian, **Zahra Soltani**, Mohammad Khaksari. Can mesenchymal stem cells act multipotential in traumatic brain injury? *Journal of Molecular Neuroscience* 2020.
25. Mojdeh Hajmohammadi, Mohammad Khaksari, **Zahra Soltani**, Nader Shahrokhi, Hamid Najafipour and Reza Abbasi. The Effect of Candesartan Alone and Its Combination with Estrogen on Post-traumatic Brain Injury Outcomes in Female Rats. *Frontiers in Neuroscience* 2019.

26. Mahdijeh Faatehi, Masoumeh Nozari, Mohsen Basiri, Akram Nezhadi, Mohammad Shabani, Yaser Masoumi-Ardakani, **Zahra Soltani**. Early enriched environment prevents cognitive impairment in an animal model of schizophrenia induced by MK-801: Role of hippocampal BDNF. *Brain Research* 2019.
27. Nasrin Soltani, **Zahra Soltani**, Mohammad Khaksari, Ghasem Ebrahimi, Mojdeh Hajmohammadi, Maryam Iranpour. The changes of brain edema and neurologic outcome and probable mechanisms in diffuse traumatic brain injury- induced rats with previous exercise. *Cellular and Molecular Neurobiology* 2019.
28. Masoumeh Sadeghinejad, **Zahra Soltani**, Mohammad Esmail Afzalpour, Mohammad Khaksari, Mohammad Pourranjbar. What is the combined effect of intense intermittent exercise and Ginkgo biloba plant on the brain neurotrophic factors levels, and learning and memory in young rats? *Pharmacological Reports* 2019.
29. Manzume Shamsi Meymandia, **Zahra Soltani**, Gholamreza Sepehri, Sedigheh Amiresmaili, Fatemeh Farahani, Mohammadmehdi Moeini Aghtaei. Effects of pregabalin on brain edema, neurologic and histologic outcomes in experimental traumatic brain injury. *Brain Research Bulletin* 2018;140: 169–175.
30. Mohammad Khaksari, **Zahra Soltani**, Hamid Najafipour, Gholamreza Sepehri, Manzoumeh Shamsi-Maymandi, Nader Shahrokhi, Siavosh Jokar, Vahid Sheibani, Hamideh Bashiri, Masoumeh Nozari. Research Records and Possibilities of the Department of Pharmacology Physiology in Kerman University of Medical Sciences, Iran. *Afzalipour Journal of Clinical Research* 2017; 2 (1): 59-68.
31. Mohammad Khaksari, Mohammad Amin Rajizadeh, Abbas Bejeshk, **Zahra Soltani**, Sina Motamedi, Fatemeh Moramdi, Masoud Islami, Shahriyar Shafa, Sepehr Khosravi. Does inhibition of angiotensin function cause neuroprotection in diffuse traumatic brain injury? *Iranian Journal of Medical Sciences* 2018.
32. Nader Shahrokhi, Mohammad Khaksari, Gholamreza AsadiKaram, **Zahra Soltani**, Nava Shahrokhi. Role of melatonin receptors in the effect of estrogen on brain edema, intracranial pressure and expression of aquaporin 4 after traumatic brain injury. *Iranian Journal of Medical Sciences* 2018; 21(3): 301-308.
33. Khaksari M, **Soltani Z**, Shahrokhi N. Effects of Female Sex Steroids Administration on Pathophysiologic Mechanisms in Traumatic Brain Injury. *Transl Stroke Res* 2017: 1-24.

34. Dehghan F, Shahrokhi N, Khaksari M, **Soltani Z**, Asadikorom G, Najafi A, Shahrokhi N. Does the administration of melatonin during post-traumatic brain injury affect cytokine levels? *Inflammopharmacology*. 2017.
35. Nader Shahrokhi, **Zahra Soltani**, Mohammad Khaksari, Saeid Karamouzian, Behshad Mofid, Gholamreza Asadikaram. The Serum Changes of Neuron-Specific Enolase and Intercellular Adhesion Molecule-1 of Progesterone-Administered Patients with Diffuse Axonal Injury in a Randomized Clinical Trial. *Arch Trauma Res*. 2016; 5(3): e37005.
36. **Zahra Soltani**, Nader Shahrokhi, Saeid Karamouzian, Mohammad Khaksari, Behshad Mofid, Nouzar Nakhaee, Hamed Reihani. Does Progesterone Improve Outcome in Diffuse Axonal Injury? *Brain Injury* 2017; 31(1): 16-23.
37. Behshad Mofid, **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Nouzar Nakhaee, Saeid Karamouzian, Mehdi Ahmadinejad, Masoud Maiel, Payam Khazaeli. What is the Progesterone-Induced Changes of the Outcome and the Serum Markers of Injury, Oxidant Activity and Inflammation in Diffuse Axonal Injury Patients? *International Immunopharmacology* 2016; 32:103–110.
38. **Soltani Z**, Khaksari M, Shahrokhi N, Mohammadi G, Mofid B, Vaziri A, Amiresmaili S. Effect Of Estrogen and/or Progesterone Administration on Traumatic Brain Injury-Caused Brain Edema: The Changes Of Aquaporin-4 And Interleukin-6. *J Physiol Biochem* 2016; 72(1): 33-44.
39. Nader Shahrokhi, Mohammad Khaksari, Shahla Norizad, Nava Shahrokhi, **Zahra Soltani**, Ahmad Gholamhosseinian. Protective Effects of an Interaction between Vagus Nerve and Melatonin in Gastric Ischemia/Reperfusion: The Role of Oxidative Stress. *Iran J Basic Med Sci* 2016; 19(1):72-9.
40. **Zahra Soltani**, Mohammad Khaksari, Elham Jafari, Maryam Iranpour, Nader Shahrokhi. Is Genistein Neuroprotective in Traumatic Brain Injury? *Physiol Behav* 2015; 152 (Pt A):26-31.
41. Mohammad Khaksari, Elham Abbasloo, Fatemeh Dehghan, **Zahra Soltani**, Asadikaram Gholamreza. The Brain Cytokines Levels Are Modulated by Estrogen Following Traumatic Brain Injury: Which Estrogen Receptor Serves as Modulator? *International Immunopharmacology*. 2015; 28 (1): 279–287.

42. **Soltani Z**, Khaksari M, Amiresmaili S, Naderi V, Jafari E, Nader Shahrokhi. Can Soy Diet be Protective in Severe and Diffuse Traumatic Brain Injury? *J Neurol Neurophysiol* 2014; 5 (4): 249.
43. Ali Reza Sarkaki, Mohammad Khaksari Haddad, **Zahra Soltani**, Nader Shahrokhi, and Mehdi Mahmoodi. Time- And Dose-Dependent Neuroprotective Effects of Sex Steroid Hormones on Inflammatory Cytokines after a Traumatic Brain Injury. *Neurotrauma*. 2013 Jan 1; 30(1): 47-54.
44. Khaksari M, **Soltani Z**, Shahrokhi N, Moshtaghi GH, Asadikaram GH. The Role of Estrogen and Progesterone, Administered Alone and in Combination, in Modulating Cytokine Concentration Following Traumatic Brain Injury. *Can J Physiol Pharmacol*. 2011; 89(1):31-40.
45. Shahrokhi N, Khaksari M, **Soltani Z**, and et al. "Effect of Sex Steroid Hormones on Brain Edema, Intracranial Pressure, and Neurologic Outcomes after Traumatic Brain Injury". *Can J Physiol Pharmacol*. 2010; 88(4):414-21.
46. Sarkaki A.R, Khaksari Haddad M, **Soltani Z**, and et al. Neuroprotection Effect of Female Sex Steroids after Traumatic Brain Injury in Rats: The Role of Inflammatory Cytokines. *Journal of Rafsanjan University of Medical Sciences*. 2011; 10(1):46-61(In Persian).
47. **Soltani Z**, Khaksari M, Sarkaki AR, et al. "The Role of Proinflammatory Cytokines in Mediation of Brain Antiedema Effect of Female Sex Steroids Following Traumatic Brain Injury". *Journal of Kerman University of Medical Sciences*. 2011; 18 (2): 107-122 (In Persian).
48. Khaksari M, **Soltani Z**, Sarkaki AR, et al. "The Effect of Estrogen and Progesterone on Cytokines Levels in Different Times After Traumatic Brain Injury". *Physiology & Pharmacology Journal*. 2010; 14(3):220-233(In Persian).
49. **Soltani Z**, Khaksari M, Shahrokhi N, et al. "Effect of Combined Administration of Estrogen and Progesterone on Brain Edema and Neurological Outcome after Traumatic Brain Injury in Female Rats'. *Iranian Journal of Endocrinology & Metabolism*. 2009; 10(6): 629-638(In Persian).
50. Shahrokhi N, Khaksari M, **Soltani Z**, Nakhaee N, Mahmodi M, Nemati A." The Effect of Sex Steroid Hormones on Brain Edema and Intracranial Pressure after Experimental Traumatic Brain Injury in Rats". *Journal of Semnan University of Medical Sciences*. 2008; 9(4): 263-272(In Persian).

51. Heidarzadeh M., And **Soltani Z.** "Haemoglobinometry of the 1st And 2nd Blood Drops by WHO Hemoglobin Color Scale and Its Comparison with Automated Blood Cell Counter". Blood. 2005, 2(7): 379-384 (In Persian).

### **-Published Abstracts in International and National Scientific Congresses:**

1. Sabet N, Mofid B, Khaksari M, **Soltani Z**, Alizadeh E. The Effect of Oral Mucosal Mesenchymal Stem Cells Administration on Inflammatory and Oxidative Stress Outcomes of Liver Following Experimental Traumatic Brain Injury. Journal Of Head Trauma. 37(6), 504, 2023.
2. Sabet N., **Soltani Z.**, Kaksari M., Investigating the effect of endurance exercise and two different food programs on experimental induced acute renal failure in male rats”: the role of Sirt1. 2nd Edition of international Nutrition Research Conference, Chicago, USA. June 15-16, 2023.
3. Sabet N., **Soltani Z.**, Khaksari M. The effects of herbal supplement of Ginkgo biloba on inflammatory and histopathologic outcome and in experimental traumatic brain injury. 3rd Edition of international Nutrition Research Conference, Paris, France. September 12-13, 2022.
4. **Zahra Soltani**, Saeed Karamouzian, Nazanin Sabet, Mohammad Khaksari, Masoud Eslami. The Effect of Mesenchymal Stem Cells Administration on Gastrointestinal System Inflammatory and Oxidant Stress Factors in Experimental Traumatic Brain Injury. IBIA Virtual World Congress on Brain Injury, New york, USA. July 28 – 30, 2021.
5. Nazanin Sabet, Behshad Mofid, Mohammad Khaksari, **Zahra Soltani**, Eshagh Alizadeh. Does Oral Mucosal Mesenchymal Stem Cells Administration Affect Traumatic Brain Injury- Induced Liver Inflammation and Oxidative Stress? IBIA Virtual World Congress on Brain Injury, New York, USA. July 28 – 30, 2021.
6. Maryam Radavi Asgar, Nazanin Sabet, **Zahra Soltani**, Mohammad Kaksari. Does Oral Mucosal Mesenchymal Stem Cells Administration Affect Traumatic Brain Injury- Induced Heart Inflammation and Oxidative Stress? 25th Iranian and 4th International Congress of Physiology & Pharmacology, Tehran, Iran. October 20- 22, 2021.

7. **Zahra Soltani**, Nazanin Sabet. The Effects of Combined Vitamin D and Estrogen on Traumatic Brain Injury in Male Rats. 24th Iranian Congress of Physiology and Pharmacology, 2019. Tehran.
8. **Zahra Soltani**, Nazanin Sabet, Mohammad Kaksari. The effects of two different dietary during exercise on inflammatory and oxidative stress factors in experimental acute kidney injury: The role of SIRT1. 25th Iranian and 4th International Congress of Physiology & Pharmacology, Tehran, Iran. October 20- 22, 2021.
9. Masoumeh Sadeghinajad, **Zahra Soltani**. What Is the Combined Effect of Intense Intermittent Exercise and Ginkgo Biloba Plant on The Brain Neurotrophic Factors Levels, and Learning and Memory in Young Rats? 3st international Congress of Neuroinflammation, 2019. Mashhad.
10. Fatemeh Dehghanian, **Zahra Soltani**. The effects of mesenchymal stem cells in traumatic brain injury? 3st international Congress of Neuroinflammation, 2019. Mashhad.
11. **Zahra Soltani**, Nasrin Soltani, Mohamad khaksari. The Changes of Edema and Neurologic Outcome and Probable Mechanisms Following Diffuse Traumatic Brain Injury in Rats with Previous Endurance Exercise. 7th Iranian Basic and Clinical Neuroscience Congress, 2018. Tehran. (Panel)
12. **Zahra Soltani**, Nader Shahrokhi, Mohammad Khaksari, Saeid Karamouzian. The Effects of Progesterone Administration in Patients with Traumatic brain Injury. 23th Iranian Congress of Physiology and Pharmacology, 2018. Chabahar. (Panel)
13. Fatemeh Dehghanian, **Zahra Soltani**, Mohamad khaksari, Nasrin Soltani. The Changes of Edema and Neurologic Outcome and Probable Mechanisms in Diffuse Traumatic Brain Injury- Induced Rats with Previous Endurance Exercise. 23th Iranian Congress of Physiology and Pharmacology, 2018. Chabahar.
14. Abbas Bejeshk, Mohammad Amin Rajizadeh, Sina Motamedi, Mohammad Khaksari, **Zahra Soltani**. Is outcome of athletes and non-athletes similar following traumatic brain injury? 1st international Congress of Neuroinflammation, 2017. Mashhad.
15. Sara Shiraz Pour, Mohammad Khaksari, Neda Salmani, **Zahra Soltani**, Alireza Raji CSF NGF/IL-6 Ratio: A Useful Marker for the Evaluation of

Progesterone Efficacy in Traumatic Brain Injury. 1st international Congress of Neuroinflammation, 2017. Mashhad.

16. Sara shirazpour, Mohammad Khaksari haddad, **Zahra Soltani**. The effect of different time progesterone administration on experimental outcomes after traumatic brain injury. 5th Congress Basic and Clinical Neuroscience, December 2016.Tehran.
17. Mohammad Amin Rajizadeh, Abbas Bejeshk, Sina Motamedi, Mohammad Khaksari, **Zahra Soltani**. Does Inhibition of Angiotensin Function Cause Neuroprotection in Traumatic Brain Injury? 5th Congress Basic and Clinical Neuroscience, December 2016.Tehran.
18. **Zahra Soltani**, Behshad Mofid, Nader Shahrokhi, Mohammad Khaksari, Saeed Karamouzian, Nouzar Nakhaeei, Mehdi Ahmadnejad. Salutary Effects of Progesterone for Traumatic Brain Injury. The 2nd International Neurotrauma Congress & the 4th International Roads Safety Congress, February 2015. Tehran.
19. **Zahra Soltani**, Mohammad Khaksari, Elham Jafari, Maryam Iranpour, Nader Shahrokhi. Is Genistein Neuroprotective in Traumatic Brain Injury? 22th Iranian Congress of Physiology and Pharmacology, 2015.
20. **Zahra Soltani**, Behshad Mofid, Nader Shahrokhi, Mohammad Khaksari, Saeed Karamouzian, Nouzar Nakhaeei, Mehdi Ahmadinejad. Salutary Effects of Progesterone for Traumatic Brain Injury. 3th Congress Basic and Clinical Neuroscience, November 2014.
21. **Zahra soltani**, Mohammad Khaksari, Nader Shahrokhi, gholamabbas mohammadi, Behshad Mofid, Ali Vaziri, Sedigheh Amiresmaili. Effect of Estrogen and Progesterone Administration on Traumatic Brain Injury-Caused Brain Edema: The Changes of Aquaporin – 4 and IL-6. the 10th International Congress of Endocrine Disorders, October 2014.
22. **Zahra Soltani**, Mohammad Khaksari, Sedigheh Amiresmaili, Nader Shahrokhi, MasoudEslami, Shahriyar Shafa, Sepehr khosravi. Is Soy Diet Preventive in Traumatic Brain Injury? 3th Congress Basic and Clinical Neuroscience, November 2014.
23. Nader Shahrokhi, Mohammad Khaksari, Gholamreza Asadi, **Zahra Soltani**, Nava Shahrokhi. "Effects of Melatonin Receptors Antagonist with Estrogen after Traumatic Brain Injury". 21th Iranian Congress of Physiology and Pharmacology, August 2013.



24. **Zahra Soltani**, Mohammad Khaksari, Alireza Sarkaki, Nader Shahrokhi, Mehdi Mahmoodi. "Time- and Dose-Dependent Neuroprotective Effects of Sex Steroid Hormones on Inflammatory Cytokines after a Traumatic Brain Injury". 21th Iranian Congress of Physiology and Pharmacology, August 2013.
25. **Zahra Soltani**, Mohammad Khaksari, Mehdi Mahmoodi, Nader Shahrokhi, Ali Vaziri. "The Simultaneous Effect of Estrogen and Progesterone on Brain Water Canal (Aquaporin 4) In Female Rats with Brain Trauma". 5th International Iranian Biology Conference, September 2012.
26. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi. "Changes Brain Edema and TGF-Beta Levels in Coadministration of Estrogen and Progesterone with Diffuse Brain Injury". The 15th Congress of the ASEAN Federation of Endocrine Societies (AFES), September 2009.
27. Mohammad Khaksari, **Zahra Soltani**, Nader Shahrokhi. "Effect of Estrogen on Brain Edema and Cytokines after Diffuse Brain Injury". The 15th Congress of the ASEAN Federation of Endocrine Societies (AFES), September 2009.
28. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**, Nezhat Adeli. "The Effect of Sex Steroid Hormones on Stress Oxidative After Traumatic Brain Injury in Ovariectomized Rats". The 15th Congress of the ASEAN Federation of Endocrine Societies (AFES), September 2009.
29. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Payam Ghotbi. "Effect of Combined Administration of Estrogen and Progesterone on Brain IL-1 $\beta$  and IL-6 Levels after Diffuse Traumatic Brain Injury in Female Rats". 19th Iranian Congress of Physiology and Pharmacology, November 2009. (Lecture).
30. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Gholamreza Moshtaghi. "Changes Brain Edema and TGF- $\beta$  Levels in Coadministration of Estrogen and Progesterone in Female Rats with Diffuse Traumatic Brain Injury". 19th Iranian Congress of Physiology and Pharmacology, November 2009.
31. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**. "The Effects of Sex Steroids on Brain Edema Brain Water Canal (Aquaporin-4) In Experimental Brain Injury". 19th Iranian Congress of Physiology and Pharmacology, November 2009.
32. Mohammad Khaksari, **Zahra Soltani**, Nader Shahrokhi, Nozar Nakhaei, Vahid Shaibani, Sohrab Hajizadeh. "Effect of Combined Administration of

- Estrogen and Progesterone on Brain Edema after Traumatic Brain Injury Rats".The 36th Congress of the International Union of Physiological Sciences (IUPS), April 2009.
33. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**, Nezhat Adeli, Mehdi Mahmoodi, Nozar Nekhaee. "The Effect of Sex Steroid Hormones on Brain Edema, Intracranial Pressure and Neurologic Outcome after Traumatic Brain Injury". The 36<sup>th</sup>Congress ofthe International Union of Physiological Sciences (IUPS), April 2009.
  34. **Zahra Soltani**, Mohammad Kahaksari, Nader Shahrokhi, Gholamreza Sepehri, Gholamreza Moshtaghi, Nouzar Nakhaei,Vahid Shaibani. "Role of Sex Steroids in Modulating Inflammatory Cytokines Changes after Traumatic Brain Injury".The 36<sup>th</sup>Congress ofthe International Union of Physiological Sciences (IUPS), April 2009.
  35. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Nozar Nakhaee, Vahid Shaibani. "Effect of Combined Administration of Estrogen and Progesterone onBrain Edema and Neurological Outcome after Traumatic Brain Injury in Female Rats". The 3rd Federation of Asian and Oceania Neuroscience Societies Symposium (FAONS), December 2008.
  36. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Gholamreza Moshtaghi, Gholamreza Sepehri, Nouzar Nekhee And Vahid Shaibani" Role Of Sex Steroids In Modulating Inflammatory Cytokines Changes After Traumatic Brain Injury".The 3rd Federation of Asian and Oceanian Neuroscience Societies Symposium(FAONS), December 2008.
  37. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**, Mehdi Mahmoodi. "The Effect of Sex Steroid Hormones on Brain Edema, Intracranial Pressure and Neurologic Outcome after Traumatic Brain Injury".The 3rd Federation ofAsian andOceanian Neuroscience Societies Symposium(FAONS), December 2008.
  38. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Payam Ghotbi, Reza Abasi."Changes in Brain Edema and Neurologic Outcome after Experimental Traumatic Brain Injury with Combined Administration of Estrogen and Progesterone". 15<sup>th</sup>International Congress of Neurology and Clinical Electrophysiology of Iran, May 2008.
  39. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**, Vahid Shaibani. "Effect of Sex Steroid Hormones on Intracranial Pressure and Cerebral Perfusion Pressure after Traumatic Brain Injury in Female Rats". 15th International Congress of Neurology and Clinical Electrophysiology of Iran, May 2008.

42. **Zahra Soltani**, Nazanin Sabet. The Effects of Combined Vitamin D and Estrogen on Traumatic Brain Injury in Male Rats. 24th Iranian Congress of Physiology and Pharmacology, 2019. Tehran.
43. **Zahra Soltani**. Investigating the Effect of Oral Mucosa Mesenchymal Stem Cells Treatment on Brain Edema and Behavioral and Cognitive Outcome Caused by Experimental Traumatic Brain Injury, 24th Iranian Congress of Physiology and Pharmacology, 2019. Tehran. (Panel).
40. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Payam Ghotbi, Reza Abasi."Changes in Brain Edema and Neurologic Outcome after Experimental Traumatic Brain Injury with Combined Administration of Estrogen and Progesterone". 15<sup>th</sup>International Congress of Neurology and Clinical Electrophysiology of Iran, May2008.
41. Nader Shahrokhi, Mohammad Khaksari, **Zahra Soltani**, Vahid Shaibani. "Effect of Sex Steroid Hormones on Intracranial Pressure and Cerebral Perfusion Pressure after Traumatic Brain Injury in Female Rats". 15th International Congress of Neurology and Clinical Electrophysiology of Iran, May 2008.

### **-Executing Proposals or Finished Proposals:**

1. Farzaneh Abdolahi, **Zahra Soltani**, Mohammad Khaksari, AlirezaRaji, Keyvan Khoramipour, Elham Jafari. Investigating the effect of aerobic training post- conditioning on renal function and pathology and cognitive function in rats with diabetic nephropathy: the role of sex and possible mechanisms. From 2023 (**Executing**).
2. Saleh Sadeghi, Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari, Manzoumeh Shamsi, Keyvan Khoramipour, Elham Jafari. Investigate the effect of previous endurance training and progesterone on inflammation levels, behavioral and histopathologic outcomes following Experimental traumatic brain injury in male rats. From 2022 (**Finished**).
3. Ladan Amirkhosravi, Mohammad Khaksari, **Zahra Soltani**, Mojgan Sanjari. The effects of progesterone and the role of its receptors on traumatic brain injury in female rats: Evaluation of some inflammatory markers, oxidative stress, and the evaluation of the role of non-genomic progesterone pathways. From 2022 (**Finished**).
4. Keyvan Khorramipour, **Zahra Soltani**, Mahdieh Hosseini, Maryam Rezaei. Investigate the effect of high-intensity interval training on appetite pathways in hypothalamus of obese rats with type 2 diabetes: The role of leptin. From 2021 (**Finished**).

5. Keyvan Khorramipour, **Zahra Soltani**, Mahdieh Hosseini, Forouzan Rafiee. Investigate the effect of high-intensity interval training on the signaling pathway of type 2 diabetes induced Alzheimer's disease in male and female rats. From 2021 (**Finished**).
6. **Zahra Soltani**, Nazanin Sabet, Shahriyar Dabiri, Fatemeh Arabzadeh, Yalda Aghabeigi, Koroush Kiani, Ali Mohhamadi, Shahrzad Barkhordar. Investigating the effect of alcoholic extract of Ginkgo Biloba on brain edema, oxidative stress and histopathological, neurological, anxiety and cognitive outcomes in experimental diffuse traumatic brain injury. From 2020 (**Finished**).
7. Hamideh Bashiri, **Zahra Soltani**, Nazanin Sabet, Mohammad Amin Rajizadeh, Amirhossein Moslemi. Investigating the effect of mild and moderate endurance exercise on some of oxidative stress factors and histopathological outcomes, anxiety-like behaviors and learning in young male and female rats exposed to valproic acid. From 2020 (**Finished**).
8. **Zahra Soltani**, Masoud Mayel, Nazanin Sabet, Mohammad Khaksari, Payam Khazaeli, Gholamreza Asadikaram, Nader Shahrokhi. Investigation of melatonin effect and probable mechanism action on outcome of severe subdural hematoma in men admitted in Kerman educational and traputical center of Shahid Bahonar. From 2019 (**Finished**).
9. Mohammad Khaksari, **Zahra Soltani**, Maryam Mousavi, Nader Shahrakhi, Alireza Raji, Nazanin Sabet, Shadan Saberi, Maryam Iranpour, Fateme Darvishzade. Investigating the effect of different food programs on acute renal failure in male rats with emphasis on role of Sirt1. From 2019 (**Finished**).
10. Mohammad Khaksari, Forouzan Rafiee, **Zahra Soltani**, Saeed Karamouzian, Nouzar Nakhaee, Mohamad Pourranjbar, Sedigheh Amiresmailii, Ladan Amirkhosravi, Nader Shahrokhi. The investigation of Preventive and therapeutic effects of voluntary exercise on cognitive, motor, and neurological function, and biochemical factors in experimental traumatic brain injury. From 2018 (**Finished**).
11. **Zahra Soltani**, Fatemeh Dehghanian, Mohammad Khaksari, Ali Farsinajad, Ali Darakhshani. Investigating the effect of oral mucosa mesenchymal stem cells administration on brain edema and behavioral and cognitive outcome caused by experimental traumatic brain injury. From 2018 (**Finished**).
12. Mohammad Esmail Afzalpour, **Zahra Soltani**, Mohammad Khaksari, Masoumeh Sadeghinejad. The Determination of Concomitant Effect of Intermittent Exercise and Different Doses of Ginkgo Biloba Extract on Brain-Derived Neurotrophic Factor and Neurotrophin-4 Levels of Hippocampus in Male Rats. From 2017 (**Finished**).
13. **Zahra Soltani**, Mohammad Khaksari, Ahmad Alinaghi, Mahmoud Amiri, Raihaneh Rezaie, Nafiseh Esmailpour. The Effect of Estrogen and Vitamin D Coadministratiobn in Traumatic Brain Injury- Induced Male Rats. From 2017 (**Finished**).
14. Mohsen Basiri, Mohammad Shabani, Masoumeh Nozari, **Zahra Soltani**, Mahdiyeh Fatahi. Investigation of the effect of enriched envirnment on BDNF expression and microglia response in hippocampus of MK-801- induced schizophrenia male rats. From 2016 (**Finished**).

15. Mohammad Khaksari, Saeed Karamouzian, **Zahra Soltani**, Nouzar Nakhaee, Behsad Mofid, Nader Shahrokhi. Investigation of The Association in Changes of Endogen Female Sex Steroids with Outcomes Induced by TBI in Premenopausal Women with Diffuse Traumatic Brain Injury Admitted in Kerman Shahid Bahonar Hospital. From 2016 (**Executing**).
16. **Zahra Soltani**, Sadegh Amani, Nasrin Soltani, Mohammad Khaksari, Vahid Sheibani, Gholamreza Asadikaram. Evaluation of Prophylaxis and Therapy Effects of Endurance Exercise and Determination of Possible Neuroprotective Mechanism in Traumatic Brain Injury in Male Rats. From 2015 (**Finished**).
17. Nader Shahrokhi, Saeed Karamouzian, **Zahra Soltani**, Mohammad Khaksari, Nouzar Nakhaee, Behsad Mofid. Evaluation of the Efficacy and Probable Mechanism of Progesterone on the Complications of Moderate and Severe Diffuse Traumatic Brain Injury in Patients Admitted in Kerman Shahid Bahonar Hospital: A Clinical Trial. From 2013. (**Finished**).
18. Mohammad Khaksari, **Zahra Soltani**, Masoud Eslami, Mojdeh Hajmohammadi, Shahryar Shafa, Sepehr Khosravi. Evaluation of Candesartan Neural Effects on Traumatic Brain Injury in male Rats. From 2015 (**Finished**).
19. Nader Shahrokhi, Azam Forouzandeh, Mohammad Khaksari, **Zahra Soltani**. The Investigation of the Protective Effects of Curcumin on Hepatic Encephalopathy Induced by Intra & Extra Cholestasis in Male Rats **From 2014 (Finished)**.
20. Mohammad Khaksari, **Zahra Soltani**, Mohammadamin Shojaee, Moeen Akbarijour, Nader Shahrokhi. Design New Model of diffuse Brain Injury in Rat and Evaluation of its Effectiveness From 2014 (**Finished**).
21. Mohammad Khaksari, Mojdeh Hajmohammadi, Nader Shahrokhi, **Zahra Soltani**, Hamid Najafipour, Gholamreza Sepehri. Evaluation of Candesartan Neural Effects and Determination of its Possible Role in Mediation of Estrogen Neuroprotective Effects After Traumatic Brain Injury In Female Rats. From 2014 (**Finished**).
22. Manzoumeh Shamsi Maymandi, **Zahra Soltani**, Gholamreza Sepehri, Fariborz Kayhanfar. The Effect of Pregabalin on Brain Edema, BBB, ICP and Neurologic Behavior after Trauma in Male Rat. From 2014 (**Finished**).
23. Bahram Poursayedi, Hamid Zeynalnadjad, **Zahra Soltani**, Shahriyar Dabiri, Mostafa Nozariniya. Elevation of Ischemia Histopathologic Changes after Ovary Torsion and Detorsion in Rats. From 2014 (**Finished**).
24. **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Behshad Mofid, Sedigheh Amiresmaili, Nozar Nakhaee. Evaluation of Effect of Soy-Derived Phytoestrogens as Preventive and Acute

Neuroprotectors on Improvement of the Brain Edema and Motor Performance Induced by Traumatic Brain Injury in Male Rats. From 2013 (**Finished**).

25. Mohammad Khaksari, **Zahra Soltani**, Nader Shahrokhi, Gholam Reza Moshtaghian, Gholam Reza Sepehri, Nozar Nakhaee. Coadministration Effects of Estrogen and Progesterone on Brain Edema Induced by Trauma in Ovaractomized Female Rats: Changes Cytokines and Aquaporin-4. From 2005 (**Finished**).

26. Alireza Sarkaki, Nader Shahrokhi, Gholam Reza Moshtaghian, Tahereh Ghadiri, Nozar Nakhaee. The role of cytokines in protective effect of sex steroid hormones on brain edema induced by traumatic brain injury in female rats. From 2007 (**Finished**).

### **Thesis of Postgraduate and Medical Students Supervised and Advisored**

1. Farzaneh Abdolahi, **Zahra Soltani**, Mohammad Khaksari, Alireza Raji, Keyvan Khoramipour, Elham Jafari. Investigating the effect of aerobic training post- conditioning on renal function and pathology and cognitive function in rats with diabetic nephropathy: the role of sex and possible mechanisms. From 2023 (**Executing, Supervisor**).

2. Saleh Sadeghi, Nazanin Sabet, **Zahra Soltani**, Mohammad Khaksari, Manzoumeh Shamsi, Keyvan Khoramipour, Elham Jafari. Investigate the effect of previous endurance training and progesterone on inflammation levels, behavioral and histopathologic outcomes following Experimental traumatic brain injury in male rats. From 2022 (**Finished, Supervisor**).

3. Behshad Mofid, **Zahra Soltani**, Eshagh Alizadeh, Nazanin Sabet, Mohammad Khaksari, Elham Jafari. Investigating the Effect of oral mucosal mesenchymal stem cells administration on liver inflammatory and oxidant activity factors in experimental traumatic brain injury. From 2020 (**Finished, Supervisor**).

4. Saeed Karamouzian, **Zahra Soltani**, Masoud Eslami, Nazanin Sabet, Mohammad Khaksari, Elham Jafari. Investigating the Effect of oral mucosal mesenchymal stem cells administration on gastrointestinal inflammatory and oxidant activity factors in experimental traumatic brain injury. From 2020 (**Finished, Supervisor**).

5. Ali Mehrabi, **Zahra Soltani**, Nazanin Sabet, Mohammad Khaksari, Elham Jafari. Investigating the Effect of oral mucosal mesenchymal stem cells administration on lung inflammatory and oxidant stress factors in experimental traumatic brain injury. From 2021 (**Finished, Supervisor**).

6. Maryam Radavi Asgar, **Zahra Soltani**, Nazanin Sabet, Mohammad Khaksari, Elham Jafari. Investigating the Effect of oral mucosal mesenchymal stem cells injection on heart and kidney inflammatory and oxidative stress factors and histopathological outcomes in experimental traumatic brain injury. From 2019 (**Finished, Supervisor**).
7. **Zahra Soltani**, Nazanin Sabet, Mohammad Khaksari, Reza Malekpour, Amir Raji. Investigating the effect of endurance exercise and two different food programs on experimental induced acute renal failure in male rats: the role of Sirt. From 2019 (**Finished, Supervisor**).
8. **Zahra Soltani**, Sharzad Eftekhari, Fatemeh Mousavi, Mohammad Khaksari, Shahryar Dabiri, Gholamreza Asadikaram, Manzoumeh Shamsi Meymandi, Hamideh Bashiri. Investigating the effect of sex and the role of female sex steroids on the levels of renal and hypothalamic clock protein genes expression in experimental chronic kidney disease. From 2019 (**Finished, Supervisor**).
9. **Zahra Soltani**, Masoud Mayel, Nazanin Sabet, Mohammad Khaksari, Payam Khazaeli, Gholamreza Asadikaram, Nader Shahrokhi. Investigation of melatonin effect and probable mechanism action on outcome of severe subdural hematoma in men admitted in Kerman educational and hospital center of Shahid Beheshti. From 2019 (**Finished, Supervisor**).
10. **Zahra Soltani**, Fatemeh Dehghanian, Mohammad Khaksari, Ali Farsinajad, Ali Darakhshani. Investigating the effect of oral mucosa mesenchymal stem cells administration on brain edema and behavioral and cognitive outcome caused by experimental traumatic brain injury. From 2018 (**Finished, Supervisor**).
11. Mohammad Esmail Afzalpour, **Zahra Soltani**, Mohammad Khaksari, Masoumeh Sadeghinejad. The Determination of Concomitant Effect of Intermittent Exercise and Different Doses of Ginkgo Biloba Extract on Brain-Derived Neurotrophic Factor and Neurotrophin-4 Levels of Hippocampus in Male Rats. From 2017 (**Finished, supervisor**).
12. Mohsen Basiri, Mohammad Shabani, Masoumeh Nozari, **Zahra Soltani**, Mahdiyeh Fatahi. Investigation of the Effect of Enriched Environment on BDNF Expression and Microglia Response in Hippocampus of MK-801- Induced Schizophrenia Male Rats. From 2016 (**Finished, Advisor**).
13. **Zahra Soltani**, Sadegh Amani, Nasrin Soltani, Mohammad Khaksari, Vahid Sheibani, Gholamreza Asadikaram. Evaluation of Prophylaxis and Therapy Effects of Endurance Exercise and Determination of Possible Neuroprotective Mechanism in Traumatic Brain Injury in Male Rats. From 2015 (**Finished, Advisor**).
14. Mohammad Khaksari, **Zahra Soltani**, Mohammadamin Shojaee, Moeen Akbarijour, Nader Shahrokhi. Design New Model of diffuse Brain Injury in Rat and Evaluation of its Effectiveness. From 2014 (**Finished, Advisor**).

**The Number of National Research projects as invited referee:**

**47 Research projects** until 2023 (Endocrine and Metabolism Research Center of Kerman University of Medical Sciences, Research Center of Afzalipour Faculty of Medicine, Research Center)

**47 Research projects** until 2024

**The Number of International and National Research Papers as Invited**

**Reviewer:**

**28 Research paper** (Restorative Neurology and Neuroscience, Iranian Journal of Physiology and Pharmacology, Translational Neuroscience, Brain Research Bulletin, Medical Science Monitor, Journal of Hazardous Materials, Experimental Physiology, Cardiovascular and Hematological Disorders, Tebe Jonoub, Kerman University of Medical Sciences, Iranian Journal of Medical Sciences, Yakhte, Cell and Tissue, Neuroscience Letters, Avicenna Journal of Phytomedicine)

**The Number of Theses as Invited Reviewer: 12**