In The Name of GOD

CURRICULUM VITAE (CV)

Zahra Soltani, PhD,

Assistant Professor of Physiology

-Present Position and Address:

Assistant 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

Date of Birth: 1975

Email: z.soltani@kmu.ac.ir, soltaniy@yahoo.com, Zsoltaniphd@gmail.com

-Academic Training:

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

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

-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 Estrogen and 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 Student of Kerman University of Medical Sciences, Kerman, Iran, 2017.
2. Preponderant Researcher of Endocrine and Metabolism, Kerman, Iran, 2015.

-Teaching Experience:

*Education of Physiology for Nutrition, Nursing, Radiology, Surgery Room, Anesthesia, Medical Emergencies, Physiotherapy, Laboratory Sciences, Dentistry, Pharmacy, Medical, Midwifery, Hygiene and Biology Students

- 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

-Skills:

*Animals Handling

*Traumatic Brain Injury (TBI) Induction Method in Animal

*Measurement of Tissue Water Content in Animal

*Determination of Blood Tissue Barrier Permeability in Animal

*Ovariectomy Technique in Animal

*Testisectomy Technique in Animal

*Renalectomy Technique in Animal

*Intracranial Pressure Measurement in Animal

*Noninvasive Blood Pressure Measurement in Animal

*Ovary Torsion Technique in Animal

*Bile Duct Ligation Technique in Animal

*ELISA Technique in Animal

*Noninvasive Tracheal Intubation in Animal

*Taking Cerebrospinal Fluid in Animal

*Motor Evaluation in Animal

*SPSS Software in Animal

*End note Software in Animal

*Behavioral Tests in Animal

-Professional History:

1. Member of Local Endocrine Research Committee Kerman, University of Medical Sciences, Kerman, Iran, from 2012-Present

2. Member of Local Endocrine Research Council, Kerman University of Medical Sciences, Kerman, Iran, from 2014-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.

-Teaching in Workshops:

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

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

Western Blot, 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. 23th Iranian Congress of Physiology &Pharmacology, Chabahar, Iran. February 15-18, 2018.
2. Symposium of New Findings in Neuroprotection, Kerman University of Medical Sciences, Kerman, Iran, 2018.

-Training in Workshops and Congresses:

1. Certificate of Electronic Education, Education Development Center, Kerman, Iran. July 2018.
2. Certificate of Noting, Education Development Center, Kerman, Iran. July 2017.
3. Certificate of Reasoning, Education Development Center, Kerman, Iran. July 2017.
4. Certificate of Upgrading Faculty Members, Education Development Center, Kerman, Iran, 2017.
5. Certificate of Research Ethics, Neuroscience Research Center, Kerman, Iran. July 2017.
6. Certificate of Statistics, Neuroscience Research Center, Kerman, Iran. July 2017.
7. Certificate of 23th Iranian Congress of Physiology &Pharmacology, Chabahar, Iran. February 15-18, 2018.
8. Certificate of Western blot, Kerman, Iran. December 2014.
9. Certificate of 5th Congress Basic and Clinical Neuroscience, Tehran, Iran. December 2016.

10. Certificate of 22th Iranian Congress of Physiology &Pharmacology, Kashan, Iran. September 7-11, 2015.

11. Certificate of the 10th International Congress of Endocrine Disorders, Shaheed Beheshti International Convention Center, Tehran, Iran. October 22-24, 2014.

12. Certificate of 21th Iranian Congress of Physiology &Pharmacology, Tabriz, Iran. August 23-27, 2013.

13. Certificate of 19th Iranian Congress of Physiology &Pharmacology, Tehran, Iran. November 3-6, 2009.

14. Certificate of 15th Iranian Congress of Neurology and Clinical Electrophysiology, Tehran, Iran. May 27-30, 2008

15. Certificate of 18th Iranian Congress of Physiology & Pharmacology, Mashhad, Iran. August 26-30, 2007

16. Certificate of 17th Iranian Congress of Physiology & Pharmacology, Kerman, Iran. October 14-17, 2005

17. Certificate of Writing Article in Qualitative Research, Kerman University of Medical Science, Iran 2016

18. Certificate of PowerPoint 2013, Kerman University of Medical Science, Iran 2015

19. Certificate of Excel Workshop Kerman University of Medical Science, Iran 2015

20. Certificate of Search on Web, Kerman University of Medical Science, Iran 2015

21. Certificate of Western Blot Workshop, Physiology Group, Kerman University of Medical Science, Iran 2015

22. Certificate of Behavioral Studies in Neuroscience Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2013

23. Certificate of Event Related Potentials Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2013

24. Certificate of Extracellular Recording Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2013

25. Certificate of educational process Workshop, Kerman University of Medical Science, Iran 2013

26. Certificate of Advanced Article Writing Principle Workshop, Kerman University of Medical Science, Iran 2012

27. Certificate of Lesson Planning Workshop, Kerman University of Medical Science, Iran 2012

28. Certificate of PCR and Western Blot Workshop, KermanNeuroscience Research center, Kerman University of Medical Science, Iran 2009

29. Certificate of Research in Education Workshop, Kerman University of Medical Science, Iran 2008

30. Certificate of Research Method Workshop, Kerman University of Medical Science, Iran 2008

31. Certificate of PCR Workshop, Kerman Neuroscience Research center, Kerman University of Medical Science, Iran 2007

32. Certificate of Cardio Pulmonary Cerebral Resuscitation Workshop, Kerman University of Medical Science, Iran 2005

33. Certificate of Gene Cloning Workshop, Kerman University of Medical Science, Iran 2010

34. Certificate of Good Clinical Practice Workshop, Kerman University of Medical Science, Iran 2010

35. 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- Manzumeh 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 140 (2018) 169–175

2- 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.

3- 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.

4- 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.

5- 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.

6- 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.

7- 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.

8- 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.

9- Behshad Mofid, **Zahra Soltani,** Mohammad Khaksari, Nader Shahrokhi, Nouzar Nakhaee, Saeid Karamouzian, Mehdi Ahmadinejad, Masoud Maiel, Payam Khazaeli. What are 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.

10- 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.

11- 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.

12- 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.

13- 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.

14- 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.

15- 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.

16- 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.

17- 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.

18- 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).

19- **Soltani Z,** Khaksari M, Sarkaki AR, and 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).

20- Khaksari M, **Soltani Z,** Sarkaki AR, and 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).

21- **Soltani Z,** Khaksari M, Shahrokhi N, and 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).

22- 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).

23- 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- **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.

2- 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.

3- 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.

4- 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.

5- 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.

6- 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.

7- **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.

8- **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.

9- **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.

10- **Zahra Soltani**, Mohammad Khaksari, Sedigheh Amiresmaili, Nader Shahrokhi, Masoud Eslami, Shahriyar Shafa, Sepehr khosravi. Is Soy Diet Preventive In Traumatic Brain Injury? 3th Congress Basic and Clinical Neuroscience, November 2014.

11- 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.

12- **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.

13- **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, Setember 2012.

14- **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.

15- 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 ofEndocrine Societies (AFES), September 2009.

16- 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.

17- **Zahra Soltani**, Mohammad Khaksari, Nader Shahrokhi, Payam Ghotbi. "Effect of Combined Administration of Estrogen and Progesterone on Brain IL-1β and IL-6 Levels afterDiffusetraumatic Brain Injury in Female Rats". 19th Iranian Congress of Physiology and Pharmacology, November 2009. (Lecture).

18- **Zahra Soltani,** Mohammad Khaksari, Nader Shahrokhi, Gholamreza Moshtaghi. "Changes Brain Edema and TGF-β Levels in Coadministration of Estrogen and

Progesterone in Female Rats with Diffuse Traumatic Brain Injury". 19th Iranian Congress of Physiology and Pharmacology, November 2009.

19- 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.

20- 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.

21- 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 36thCongress ofthe International Union of Physiological Sciences (IUPS), April 2009.

22- **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 36thCongress ofthe International Union of Physiological Sciences (IUPS), April 2009.

23- **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.

24- **Zahra Soltani,** Mohammad Khaksari, Nader Shahrokhi, Gholamreza Moshtaghi, Gholamreza Sepehri, Nouzar Nekheei 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.

25- 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.

26- **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". 15th International Congress of Neurology and Clinical Electrophysiology of Iran, May2008.

27- 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. Mohammad Khaksari, Forouzan Rafiee, **Zahra Soltani,** Saeed Karamouzian, Nouzar Nakhaee, Mohamad Pourranjbar, Sedigheh Amiresmailii, Ladan Amirkhosravi, Nader Shahrokhi.The investigation of Preventive and the rapeutic effects of voluntary exercise on cognitive, motor, and neurological function, and biochemical factors in experimental traumatic brain injury. From 2018 (**Executing**).

2. **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 (**Executing**).

3. Saeed Karamouzian, **Zahra Soltani,** Mohammad Khaksari, Nouzar Nakhaee, Mahdiyeh Danesh, Nader Shahrokhi, Gholamreza Asadikaram. Evaluation of the Efficacy And Probable Mechanism of Estrogen on the Complications of Moderate and Severe Diffuse Traumatic Brain Injury in Patients Admitted in Kerman Shahid Bahonar Hospital: a Clinical Trial. From 2016 (**Finished)**.

4. 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).**

5. **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).**

6. 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).**

7. 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**).
8. **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).**
9. 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)**.
10. 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)**.
11. 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).**
12. 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).**
13. Mohammad Khaksari, Mojdeh Hajmohammadi, Nader Shahrokhi, **Zahra Soltani,** Hamid Najafipour, Gholamreza Sepehri. Evaluation of Candesartan Neural Effects and Determination of its Possible Role in Mediatation of Estrogen Neuroprotective Effects After Traumatic Brain Injury In Female Rats. From 2014 **(Finished).**
14. 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).**
15. Bahram Poursayedi, Hamid Zeynalinajad, **Zahra Soltani,** Shahriyar Dabiri, Mostafa Nozariniya. Elevation of Ischemia Histopathologic Changes after Ovary Torsion and Detorsion in Rats. From 2014 **(Finished).**

16. **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).**
17. 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 Cytokins and Aquaporin-4. From 2005 **(Finished).**
18. Mohammad Khaksari, **Zahra Soltani,** 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. **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 (**Executing, Supervisor**).

2. Saeed Karamouzian, **Zahra Soltani,** Mohammad Khaksari, Nouzar Nakhaee, Mahdiyeh Danesh, Nader Shahrokhi, Gholamreza Asadikaram. Evaluation of the Efficacy And Probable Mechanism of Estrogen on the Complications of Moderate and Severe Diffuse Traumatic Brain Injury in Patients Admitted in Kerman Shahid Bahonar Hospital: a Clinical Trial. From 2016 (**Finished, Supervisor)**.
3. 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).**
4. 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, Advisor).**
5. **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, Supervisor).**

6. 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:**

25 Research projects (Endocrine and Metabolism Research Center of Keman University of Medical Sciences, Research Center of Afzalipour Faculty of Medicine, Research Center)

- **The Number of International and National Research Papers as Invited Reviewer:**

6 Research paper (Restorative Neurology and Neuroscience, Iranian Journal of Physiology and Pharmacology, Translational Neuroscience, Tebe Jonoub)

- **The Number of Theses as Invited Reviewer: 4**