

Curriculum vitae

Full name:

Dr. Samira Ezi, Ph.D

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PERSONAL DETAILS:

Date of birth: 1987

Nationality: Iranian

Place of Birth: sabzevar, Iran

Religion: Islam

EDUCATIONAL HISTORY:

➤ A. Education (Academic Preparation):

- ✓ **Ph.D.** Anatomical Sciences (Histology, Anatomy and Embryology), Shahid Beheshti University of Medical Sciences, Tehran, Iran (SBMU). (**Sep. 2017 – July. 2021**)
- ✓ **M.Sc.** Anatomical Sciences (Histology, Anatomy and Embryology), Birjand University of Medical Sciences, Birjand, Iran (BUMS). (**Sep. 2013 – July. 2016**)
- ✓ **B.Sc.** Radiology, Mashhad University of Medical Sciences, Iran (MUMS). (**Feb. 2010 - Feb. 2012**)

➤ B. Theses and Supervisors:

- ✓ **Ph.D. Thesis title:** The evaluation of tramadol neurotoxicity on the gene expression profile and histopathological study in adult male rats cerebellum (**Dr. Abbas Aliaghaei**)
- ✓ **M.Sc. thesis title:** The effects of long-term consumption of a diet rich in cholesterol and saturated fatty acids (sheep tail fat) on testis parameters in Wistar rats. (**Dr. Mohammad-Mahdi Hassan Zadeh**)

RESEARCH INTEREST:

- ✓ Addiction

- ✓ Neurodegenerative Diseases
- ✓ Learning & Memory
- ✓ Neuroimaging
- ✓ Pain
- ✓ Aging
- ✓ Spinal cord injury
- ✓ Stem cell therapy

PUBLICATIONS:

➤ **A. Article**

1. Effect of turnip leaf and root extracts on renal function in diabetic rats
2. Effects of colostrum on sperm parameters, sex hormones and testes histopathological changes in diabetic rats.
3. Effects of Tail fat enriched diet on male Wistar rat reproductive system.
4. The Effects of Aqueous Extract of Wild Pistachio (*Pistacia Atlantica*) leaves on Diabetic Nephropathy in Rat.
5. Protective effect of aqueous jujube extract in Carbamazepine induced teratogenicity on Balb/c mice fetuses.
6. Tramadol: A potential neurotoxic agent affecting prefrontal cortices in adult male rats and PC-12 cell line.
7. The effect of 3-nitropropionic acid on behavioral dysfunction, neuron loss and gliosis in the brain of adult male rats: The case of prefrontal cortex, hippocampus and the cerebellum.
8. Implantation of human olfactory ecto-mesenchymal stem cells restores locomotion in a rat model of Parkinson's disease.
9. Tramadol exposure upregulated apoptosis, inflammation and autophagy in PC12 cells and rat's striatum: An in vitro-in vivo approach.
10. Chronic administration of methylphenidate did not affect memory and GDNF levels but increase astrogliosis in adult male rat's hippocampus.
11. Effect of Sertoli Cell Transplantation on Reducing Neuroinflammation-Induced Necroptosis and Improving Motor Coordination in the Rat Model of Cerebellar Ataxia Induced by 3-Acetylpyridine.
12. Chronic Exposure to Tramadol Induces Neurodegeneration in the Cerebellum of Adult Male Rats.
13. Combined molecular, structural and memory data unravel the destructive effect of tramadol on hippocampus.
14. Chronic Administration of Methylphenidate Induced Degeneration of Spermatogenesis in Adult Male Rats.
15. Elderberry diet improves sperm quality and histological parameters of testicular tissue in adult male rats exposed to methamphetamine.

16. Upregulation of heat shock proteins 70 and 90 induced by transient scrotal hyperthermia in mice.
17. SARS-CoV-2 induced inflammation of testicular tissue mediated cytokine storm and micro-RNAs involved in apoptosis
18. Does tramadol exposure have unfavorable effects on hippocampus? A review study

➤ **B. Book Chapter**

1. Vafaei-Nezhad S, Vafaei-Nezhad M, Shadi M, Ezi S. The Impact of Diabetes on Hippocampus. In: Zhang PX, editor. Hippocampus - New Advances. 1 ed: IntechOpen; 2021.

 TEACHING EXPERINCES:

- Gonabad University of Medical Sciences, **2021- Present**

Anatomy (Head and Neck, Limb, Trunk), Neuroanatomy, Histology, Embryology

 CONFERENCE PAPERS:

- 1- The 11th Iranian Congress on Anatomical Sciences. 19-21 Feb, 2014. Ahvaz, Iran. **(Poster Presentation).**
- 2- The 12th Iranian Congress on Anatomical Sciences. 4-6 May, 2016. Tehran, Iran. **(Poster Presentation).**
- 3- The 2th International Congress on Reproduction (ISERB 2016). 2016. Tehran, Iran. **(Oral Presentation).**

 WORKSHOPS & SEMINARS:

- 1- The 11th Iranian Congress on Anatomical Sciences. 19-21 Feb, 2014. Ahvaz, Iran.
- 2- The 12th Iranian Congress on Anatomical Sciences. 4-6 May, 2016. Tehran, Iran.
- 3- *The 2th International Congress on Reproduction (ISERB 2016).* 2016. Tehran, Iran.
- 4- Educational Workshop “*Endnote Software*” in November 2014
- 5- Educational Workshop “*Research Methodology*” in April 2015.
- 6- Educational Workshop “*laboratory Animals*” in October 2015.
- 7- Educational Workshop “*q-PCR*” in December 2016.
- 8- Educational Workshop “*Science Direct, Science Direct Topics, Scopus*” in September 2021.

LABORATORY SKILLS:

- ✓ **Animal Stereotaxic Surgeries**
- ✓ **Stereology**
- ✓ **Electromyography**
- ✓ **Histology Techniques:** H&E, Nissl, Trichrome, PAS, IHC, IF, Luxol Fast Blue Staining
- ✓ **TUNEL Assay**
- ✓ **Spinal Cord Injury Animal Models**
- ✓ **Wound Healing Animal Models**
- ✓ **Parkinson's disease Animal Models**
- ✓ **Huntington's disease Animal Models**
- ✓ **Rat Model of Cerebellar Ataxia**
- ✓ **Animal Behavioral Tests:**
- ✓ **Open Field**
- ✓ **Rotarod Performance Test**
- ✓ **Morris Water Maze**
- ✓ **Forced Swim Test**
- ✓ **Passive Avoidance Learning (Shuttle Box)**
- ✓ **Y-Maze**

COMPUTER SKILLS:

- ✓ **Microsoft Office**
- ✓ **Spss**
- ✓ **Image J**

HONOR and AWARDS:

I ranked within the top 1% among approximately 40 participants in my Bachelor's Program at Mashhad University of Medical Sciences.

I secured the 11 position among 120 candidates in the Ph.D. entrance exam.

SOCIAL SKILLS:

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| I. Effective communication | II. High motivation |
| III. Good teamwork/Collaboration | IV. Creative Personality |
| V. Independent | VI. Willing to learn new skills |

