

Curriculum Vitae for

Shima Mehrabadi

PERSONAL PARTICULARS

Date of Birth: 1 May 1991

Gender: Female

Marital Status: Married

Place of Residence: Neyshabur (Iran)

Tel: +989199335877- +989373823488

Administrative / Leadership Experience

Director of Educational Development Center (EDC), Neyshabur University of Medical Sciences (2025 – Present)

Professional / Academic Activities

Assistant professor at Neyshabur University of Medical Science , Neyshabur, Iran (2025-present)

Editorial Board Member, Journal of Neyshabur University of Medical Sciences (2025 – Present)

Member of Non-Communicable Diseases Research Center (NCDRC), Neyshabur University of Medical Science (2025 – Present)

Education

Post doc degree in finding of biomarkers in prognosis and treatment of GI cancers (2020-2022).

Metabolic syndrome research center. Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran (Supervisor : Dr. Amir Avan)

PhD Student in Medical Physiology (Since 2016-2020)

Department of Physiology, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran

Thesis topic: Effect of adipose tissue derived mesenchymal cells conditioned medium on brain inflammation in Alzheimer model induced with A β amyloid in male wistar rats: Role of Toll-like receptors

Supervisor: Dr. Seyed Shahabeddin Sadr

M. Sc. Medical Physiology (2013-2016)

Neurophysiology Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran GPA:18.10/20

Thesis topic: The effect of sub effective dose of GABA agonists on electrophysiological changes of WDR neurons in morphine tolerance in male rats

Supervisor: Dr.Homa Manaheji

B. Sc. Nurse Anesthetist (2009-2013)

Faculty of Nursing & Midwifery , Mashhad University of Medical Sciences GPA:17.33/20

Language skills

Persian: Excellent

English: Good

Laboratory skills

In vivo single unit and Field potential recording

Cell culture

MTT-assay test

ELISA

Bradford protein assay

Real Time PCR

Animal behavioral tests (Formalin test, Tail flick test,Hot plate test, Morris Water Mase,Novel

object recognition test,Open filed)

Immunohistochemistry

RESEARCH INTEREST

Electrophysiology

Neurodegenerative and neuroinflammation disorders (Epilepsy, Alzheimer,Parkinson)

Neuropathic and inflammation pains

Morphine tolerance and addiction

Cancer therapy

WORKSHOP

1-Extraction and culture of adipose mesenchymal stem cell TUMS Core Facility, 13-14 May, 2018.

2- Cell culture workshop and MTT-assay test, TUMS Core Facility, 8-9 May 2018

3-Extraction of peripheral blood mononuclear cells (PBMC) isolation from whole blood using the Ficoll-Paque method, TUMS Core Facility, 6 May 2018.

4- Cell culture workshop (Aseptic technique,Thawing,Counting,Expanding ,Freezing),Training Course in the international congress of biomedicine, 2 May 2018.

5- ELISA workshop, Training Course in the international congress of biomedicine 21 September 2018

6. Power Lab workshop, Training Course in data acquisition on the basics of labchart and powerlab.

BOOKS PUBLICATION

1.Chapter 14 - Clinical practice guidelines for interventional treatment of pancreatic cancer , Authors:Ghazaleh Pourali , Ghazaleh Donyadideh , **Shima Mehrabadi** , Fiuji Hamid , Seyed Mahdi Hassanian , Gordon A. Ferns, Majid Khazaei, Amir Avan. Elsevier publisher , published in October 2023.

2. Comprehensive understanding of dementia disease, Author: **Shima Mehrabadi**, Pejooheshgar bartar press, published in May 2019.

3. A review of cardiovascular physiology, Author : **Shima Mehrabadi** , Narvan press, published in April 2020.

ARTICLES PUBLICATION

Abstracts of Congress

1- **Shima Mehrabadi** , Effect of probiotic mixture on memory function, inflammation markers

and oxidative stress in Alzheimer's disease rats. Accepted in 8th Basic and Clinical

Neuroscience Congress.

2-**Shima Mehrabadi**, Seyed Shahabeddin Sadr .Conditioned Medium Derived from Hypoxic Adipose tissue Mesenchymal Stem Cells attenuated neuroinflammation on Alzheimer's disease

model in rats. Accepted in 24th Iranian and 3rd International Congress of Physiology and Pharmacology.

3-**Shima Mehrabadi**, Seyed Shahabeddin Sadr, Elahe Motevaseli. Adipose tissue derived mesenchymal stem cell conditioned media could attenuate brain inflammation in Alzheimer model rats. Accepted in 2nd International Congress on Biomedicine. 21-24 December 2018.

4- **Shima Mehrabadi**. Effect of hypoxia on adipose tissue stem cell conditioned medium compounds. Accepted in **7th** Basic and Clinical Neuroscience Congress. 12-14 December 2018.

5- **Shima Mehrabadi**, Seyed Shahabeddin Sadr, Elahe Motevaseli. Effect of human adipose tissue derived mesenchymal stem cells conditioned medium on spatial memory on Alzheimer model induced with A β amyloid. Accepted in the 2nd International Congress of Physiology and Pharmacology. 15-18 February 2018, Chabahar, Iran

6- **Shima Mehrabadi**, Homa Manaheji. Effect of GABAergic agonists on electrophysiological

changes of WDR neurons in morphine tolerance model. Accepted in the 11th International Addiction Science Congress. 13-15 September 2017, Tehran Iran

7- **Shima Mehrabadi**, Homa Manaheji. The effect of sub effective dose of GABAB agonist on electrophysiological changes of WDR neurons in morphine tolerance model. Accepted in the Basic and Clinical Neuroscience Congress. 23-25 December 2015, Tehran, Iran

8-**Shima Mehrabadi**, Homa Manaheji. GABA agonists could improve morphine antinociception effect in Formalin test. Accepted in the 1st International and 22nd Iranian Congress of Physiology and Pharmacology, 7-11 September 2015, Kashan, Iran

9- Adel Salari, Homa Manaheji, Shahrabano Oryan, Mehdi Sadeghi, **Shima Mehrabadi**. Electrophysiological study of the NMDA receptor on analgesic effect Of α 2 adrenergic in spinal nerve ligation model in rat. Accepted in the 3th Basic and Clinical Neuroscience Congress. 29-31 October 2014, Tehran, Iran.

Full Papers

1. Morphine tolerance effects on neurotransmitters and related receptors: overview and

update. Shima Mehrabadi, Seyed Morteza Karimiyan, *Journal of Pharmaceutical Research International*, 23(6):1- 11, 2018.

2- Effect of Sub-effective dose of GABA Agonists on Attenuation of Morphine Tolerance in Rats: Behavioral and Electrophysiological Studies. Shima Mehrabadi, Seyed Morteza Karimiyan, *International Journal of Advanced Biological and Biomedical Research*, 7(4) (2018), 338-345

3- GABA agonists could decrease hyperalgesia and NO serum level in morphine tolerance model, Shima Mehrabadi, Seyed Shahabeddin Sadr, *International Journal of Advanced Biological and Biomedical Research*, 7(1) (2018), 129–134.

4- Intraperitoneal effect of GABA agonists on pain induced by formalin test in morphine tolerance model. Shima Mehrabadi, Homa Manaheji, *Zanko Journal of Medical Sciences*, 12(2)(2019):74-83

5- Stem cell conditioned medium as a novel treatment for neuroinflammation diseases, Shima Mehrabadi, Seyed Shahabeddin Sadr, *International Journal of Medical Investigation*, 8(2)(2019):83- 92

6- Interaction between Gut Microbiota and Neuroinflammatory disorders. Shima Mehrabadi, *International Journal of Medical Investigation*, 8(2)(2019):120-125

7- Hypoxic-Conditioned Medium from Adipose Tissue Mesenchymal Stem Cells Improved Neuroinflammation through Alternation of Toll like receptor (TLR) 2 and TLR4 Expression in Model of Alzheimer's Disease Rats. Shima Mehrabadi, Seyed Shahabeddin Sadr, Elahe Motevaseli, Khadijeh Moradbeygi, *Behavioural brain research Journal*, 2020: p. 112362.

8. Assessment of Probiotics mixture on memory function, inflammation markers and oxidative stress in Alzheimer's disease model rats. Shima Mehrabadi, Seyed Shahabeddin Sadr, *Iranian Biomedical Journal*, vol. 24, pp. 220-228, 2020.

9. The inhibiting role of periaqueductal gray metabotropic glutamate receptor subtype 8 in rat model of central neuropathic pain, Marjan Hosseini, Mohsen Parviz, Aliraza Shabanzadeh, Elham Zamani, Parvaneh Mohseni-Moghaddam, Shima Mehrabadi *Neurological Research*, pp. 1-7, 2020

10. Repeated administration of baclofen alters TRPV-1 channel expression by PKC pathway in dorsal horn of spinal cord in morphine tolerance model of rats. Shima Mehrabadi, Seyed Morteza Karimiyan, *Iranian Biomedical Journal*, vol.28, pp.232-240, 2020

11- Administration of Vitamins D3 and E supplements reduces amyloid burden, neuronal loss and oxidative stress in model of Alzheimer's disease rats. , Shima Mehrabadi, Seyed Shahabeddin Sadr, *Neurological research Journal*, pp.21-22, 2020.

- 12- Impact of high NaCl concentration in drinking water on health of different human organs. Majid Zamani beidokhti, Daryoush Yousefi Kebria, Shima Mehrabadi, International Journal of Medical Investigation, 8(2)(2020):15-21
13. Effect of curcumin on beta-amyloid plasma level in Alzheimer disease: a systematic review and meta-analysis. Shima Mehrabadi, Azam Alinaghpour, Elham Zahedi ,International Clinical Neuroscience Journal, 8(2) (2021):55-59
- 14- Effects of vitamin D supplementation on inflammatory markers on multiple sclerosis disease: a systematic review and meta-analysis of randomized controlled trials. Shima Mehrabadi, Azam Alinaghpour, Elham Zahedi , Archive Military Medicine Journal (2021):22-29.
- 15- Anti-LINGO-1 improved remyelination and neurobehavioral deficit in cuprizone. Khadijeh Moradbeygi, Mohsen Parviz, Hossein Rezaeizadeh, Arman Zargaran, Mohammad Ali Sahraian, Shima Mehrabadi. Iran Journal Basic Medical Science 24 (2021) :900-907
- 16- Remodeling of the Gut Microbiota in Colorectal Cancer and its Association with Obesity. Shima Mehrabadi , Nima Zafari, Mahla Velayati, Amir Avan. Current Pharmaceutical Design (2022):256- 271
- 17- Novel formulated form of turmeric oleoresin inhibits cell growth and migratory behaviors of breast cancer cells. Zahede Bahmani , Faezeh Ghasemi, Ghazaleh Pournali, Shima Mehrabadi , Amir Avan. Current research in medical science (2022): 23-30
- 18- The Prognostic Value of HER1 R497K in the Management of Patients with Breast Cancer. Masoomeh Baderi, Soodabeh ShahidSales , Shima Mehrabadi, Seyed Mahdi Hassanian , Amir Avan.
- 19- Effects of Chronic Administration of Nickel on Memory Function, Hippocampal Neuronal Morphology and Oxidative Stress Factors in Male Adult Rat. Shima Mehrabadi, Majid Zamani, Amir Avan. Archives of Advances in Biosciences (2022):35-45
- 20- Effect of Glibenclamide as a KATP Channel Blockade in Treatment of Parkinson Disease in the 6-Hydroxydopamine-Induced Animal Model. Shima Mehrabadi. International Journal of Medical Investigation (2022):93-100
- 21- The therapeutic potential value of Metformin for attenuating postsurgical adhesion band formation. Shima Mehrabadi , Amir Avan. Galen Medical Journal (2023):23-35
- 22- Association of a genetic variant in the ATP transmembrane glycoprotein and risk of pancreatic cancer. Shima Mehrabadi , Amir Avan. Annals of Pancreatic Cancer (2023):57-89
- 23- The effects of Trigonella foenum-graecum L. on post-surgical adhesion band formation. Shima Mehrabadi , Amir Avan. Letter drug design and delivery (2023):35-45

- 24-Growth-hormone-releasing Hormone as a Prognostic Biomarker and Therapeutic Target in Gastrointestinal Cancer. Shima Mehrabadi, Mahla Velayati, Nima Zafari, Seyed M Hassanian, Majid Ghayour Mobarhan, Gordon Ferns , Amir Avan. *Current Cancer Drug Targets* (2023):40-57
- 25- Household Food Insecurity and Associated Factors among Iranian Patients with Esophageal and Gastric Cancers. Masoudreza Sohrabi, Ensiyeh Mollanorozy, Hamid Abbasi, Shima Mehrabadi, Farhad Zamani, Ali Gholami. *Middle East Journal of Digestive Diseases* (2023): 53-70
- 26- PNU-74654 Enhanced the Antiproliferative Activity of Gemcitabine by Targeting Wnt/ β -Catenin Treatment. Shima Mehrabadi, Amir Avan. *Letters in drug and design discovery* . (2023): 25-33.
- 27-.The potential therapeutic applications of CRISPR/Cas9 in colorectal cancer. Shima Mehrabadi , Amir Avan , *current medicinal chemistry*. (2023):137-146
- 28- Photodynamic Therapy as a Desirable Approach in the Treatment of Colorectal Cancer, with Special Focus on Photodynamic Nanotherapeutics in Immunotherapy. Shima Mehrabadi , Amir Avan , *current medicinal chemistry*. (2024):189-196
- 29- Genetic Determinants of Response to Statins in Cardiovascular Diseases. Shima Mehrabadi , Amir Avan , *Current Cardiology Reviews*. (2024):158-169
- 30- The Therapeutic Potential of Targeting the PD-L1/PD-1 Immune Checkpoint Pathway in The Role of Neuronal Pathways in Gastrointestinal Cancers: Targets for Prevention and. Shima Mehrabadi , Amir Avan , *Current Molecular Medicine*. (2024):10- 17.
- 31-Effect of Glibenclamide as a KATP Channel Blockade in Treatment of Parkinson Disease in the 6- Hydroxydopamine-Induced Animal Model. Shima Mehrabadi, Azam Alonaghypour. (2022):93-100
32. Growth Hormone-Releasing Hormone as Potential Diagnostic and Therapeutic Target in Colorectal Cancer. Ghazaleh Khalili-tanha and Amir Avan Shima Mehrabadi, Azam Alinaghypour,*Current Cancer Therapy Reviews*.(2024):23-32
33. The Circadian Clock as a Potential Biomarker and Therapeutic Target in Gastrointestinal Cancers. Sama Barati, Homina Saffar, Shima Mehrabadi, Amir Avan, *Current Pharmaceutical Design*.(2024):78-93
34. The long noncoding RNA PANDAR as a prognostic and diagnostic biomarker in pancreatic cancer. Shima Mehrabadi, Samaneh Mollazadeh, Amir Avan , *Current Cancer Drug Targets*.(2024):157-180
35. Atrial Natriuretic Peptide as a Biomarker and Therapeutic Target in Cancer: A Focus on

Colorectal Cancer. Shima Mehrabadi, Mahla Velayati, Nima Zafari, Amir Avan, Current Signal Transduction. (2024):63-80

36. Poor Sleep Quality and Its Influencing Factors Among Iranian Patients with Esophageal and Gastric Cancer. Negin Maroufi, Masoudreza Sohrabi, Shima Mehrabadi, Farhad Zamani, Middle East Journal of Digestive Diseases.(2024):57-70

37. Extracellular Vesicles: A Promising Therapeutic Approach for Alzheimer's Disease, Shima Mehrabadi. Current Alzheimer Research (2025):615-624

38- Uncovering the Healing Power of Stem Cells: Harnessing Regenerative Therapies for Alzheimer's Disease. Shima Mehrabadi, Current Aging Science. (2025).

39. Quercetin's Potential Therapeutic Role in Human Colorectal Cancer: An Effective Strategy for Prevention and Treatment. Shima Mehrabadi, Anti-Cancer Agents in Medicinal Chemistry. (2025).

40. Unraveling the Role of Tumor-infiltrating Immune Cells in Modulating Cancer Drug Resistance. Shima Mehrabadi, (2025).

41. Exploring the Role of Fatty Acid Intake in Pancreatic Cancer Risk: Preventive Insights. Shima Mehrabadi, (2025).

42. The Role of Digital Health Technologies in Early Detection and Management of Alzheimer's Disease. Shima Mehrabadi, Current Alzheimer research (2025):27-39

43. Investigating The Potential Of Gene Editing Technologies In Enhancing Stem Cell Therapy For Alzheimer's Diseases. Shima Mehrabadi, Current Aging science (2025):37-59

44. The Role of Biomarkers in Personalized Treatment of Gastrointestinal Cancers. Shima Mehrabadi , Anti-Cancer Agents in Medicinal Chemistry (2025): 58-68

45. Exploring the Interconnections of Genetic, Lifestyle, and Epigenetic Influences on Brain Aging: A Comprehensive Review. Shima Mehrabadi, Sama Barati. Current Alzheimer research (2025):27-65

46. From Sleep to Senility: Glymphatic Dysfunction in Alzheimer's Disease. Shima Mehrabadi, Saeed Samarghandian. Current Aging science (2025):130-155

HONOURS

1- **3 month training course** as a research visiting student in **Molecular biology lab** in Institute of Higher Nervous Activity and Neurophysiology, **Russian Academy of Sciences, Moscow, Russia, February-April 2019.**

2-**EZAMA** (Esmaeil Zamanian Addiction Medicine Award) Diploma of Honor, 11th International Addiction Science Congress, 13th September 2017).

3- **Ranked 5th** in the nationwide Entrance Exam to Iranian universities among more than 900 applicants for M.Sc. in Medical Physiology.

4- **Ranked 8th** in the nationwide Entrance Exam to Iranian universities for Ph.D in Medical Physiology

5- **Ranked 1st** in the Ph.D in Comprehensive exam at PhD course.

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