



Malek Zarei

Scientific Ranking:
Assistant Professor

CONTACT INFORMATION

Work Address:

Pharmacology Department, School of Medicine, Shahid Beheshti University of Medical Sciences, Arabi Avenue, Velenjak, Tehran, Iran

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Languages

Excellent communication and professional skills

English:

Reading: Excellent

Writing: Excellent

Speaking: Very Good

Listening: Excellent

Arabic: Good

Curriculum Vitae

Ph.D. in Pharmacology with over 11 years of relevant professional experience



Educational Background

- **Ph.D. in Pharmacology**
- Faculty of Medicine, *Shahid Beheshti University of Medical Sciences*
- **Doctor of Pharmacy (Pharm.D)**
- Faculty of Pharmacy, Kerman University of Medical Sciences



Publications

- Sheikholeslami MA, Parvardeh S, Ghafghazi S, **Zarei M**. Modulation of immune responses by opioids through toll-like and P2X receptor signaling in COVID-19. *Purinergic Signalling*. 2026; 22:22.
- **Zarei M**. Mesenchymal stem cell therapy for type 2 diabetes: mechanisms, clinical evidence, and future directions. *Molecular Biology Reports*. 2025;52(1):1-10.
- **Zarei M**, Sabetkasaei M, Mozafari M, Zaeri S. The expanding role of semaglutide: beyond glycemic control. *Journal of Diabetes & Metabolic Disorders*. 2025;24(2):160.
- **Zarei M**, Sheikholeslami MA, Mozaffari M, Mortada Y. Innovative immunotherapies and emerging treatments in type 1 diabetes management. *Diabetes Epidemiology and Management*. 2025; 17:100247.
- **Zarei M**, Sahebi Vaighan N, Farjoo MH, Talebi S, Zarei M. Incretin-based therapy: a new horizon in diabetes management. *Journal of Diabetes & Metabolic Disorders*. 2024;23(2):1665-86.
- **Zarei M**, Shiravand S, Mohammadvali-samani S, Sheikholeslami MA, Roudbari Z. The impact of antidiabetic medications on COVID-19 outcomes in diabetic patients: an overview. *Physiology and Pharmacology*. 2024;28(4):363-88.
- Rezaei M, Ghafghazi S, Hemmesi MK, Miri M, **Zarei M**, Ziai SA. Increasing serum albumin in patients with hypoalbuminemia does not inhibit serum angiotensin-converting enzyme activity: Serum Albumin Increase and Serum ACE Activity in Hypoalbuminemic Patients. *Student Research in Translational Medicine*. 2023;5.
- Valian A, Tareh A, **Zarei M**, Gholami Mandali S. Effect of Pistacia lentiscus Extract on Dentin Remineralization: An In Vitro Study. *Journal of Research in Dental and Maxillofacial Sciences*. 2023;8(1):49-56.
- Ataollahi M, Akrami E, Kalani M, **Zarei M**, Chijan MR, Sedigh-Rahimabadi M, et al. Evaluation of anticoagulant and inflammatory effects of Tanacetum parthenium (L.) in a randomized controlled clinical trial. *Journal of Herbal Medicine*. 2022; 36:100613.
- **Zarei M**, Sabetkasaei M, Moini Zanjani T, Sahebi Vaighan N. The effect of microglial inhibition on the expression of BDNF, KCC2, and GABAA receptor before and after the establishment of CCI-induced neuropathic pain model. *Fundamental & clinical pharmacology*. 2022;36(2):277-85.
- Sahebi Vaighan N, Parhiz S, Sabetkasaei M, Moini Zanjani T, **Zarei M** (Corresponding Author). Paroxetine effects on morphine analgesic tolerance in rats. *Scandinavian Journal of Pain*. 2022;22(1):186-92.
- **Zarei M**, Sahebi Vaighan N, Ziai SA. Purinergic receptor ligands: the cytokine storm attenuators, potential therapeutic agents for the treatment of COVID-19. *Immunopharmacology and Immunotoxicology*. 2021;43(6):633-43.
- **Zarei M**, Sabetkasaei M, Moini-Zanjani T. Effect of paroxetine on the neuropathic pain: a molecular study. *Iranian Biomedical Journal*. 2020;24(5):306.

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- Shamsoddin E, Bashash D, **Zarei M**, Houshmand B. Asparagus Officinalis: An Herbal Candidate for an Intraoral Healing Mouthwash. 2020.
- Salimi A, Sabetkasaei M, Raisi H, Labibi F, Ameli H, **Zarei M**, et al. Carbamazepine effects on pain management and serum IL-6, IL-10 evaluation in addicted patients undergoing surgery. European Journal of Pharmacology. 2017; 812:184-8.
- **Zarei M**, Sabetkasaei M, Moini-Zanjani T. Paradoxical effect of minocycline on established neuropathic pain in rat. EXCLI journal. 2017; 16:229.
- Mortada Y, Khojasteh K, **Zarei M**, Mansouri A, Jorjani M. How nitric oxide increases in diabetic morphine tolerated male rats. Iranian Journal of pharmaceutical research: IJPR. 2017;16(2):630.
- Shirvani A, Mozaffari M, **Zarei M**. Antimicrobial effects of 14 Medicinal plant species of Dashti in Bushehr province. Iranian south Medical Journal. 2014;17(1):49-57.
- **Zarei M**, Sabetkasaei M, Zanjani TM. Paroxetine attenuates the development and existing pain in a rat model of neuropathic pain. Iranian biomedical journal. 2014;18(2):94.
- *شاهدت را بیاور* – *Nedaye Mohaya* Research-Pharmaceutical Monthly (Part 1)
- *شاهدت را بیاور* – *Nedaye Mohaya* Research-Pharmaceutical Monthly (Part 2)
- *شاهدت را بیاور* – *Nedaye Mohaya* Research-Pharmaceutical Monthly (Part 3)
- *شاهدت را بیاور* – *Nedaye Mohaya* Research-Pharmaceutical Monthly (Part 4)
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Research Interests

- ❖ Neuropathic Pain
- ❖ Diabetes
- ❖ Addiction
- ❖ Morphine Tolerance



Research Skills and Experience

- ❖ Western blot, SDS-PAGE
- ❖ ELISA
- ❖ PCR
- ❖ Gel electrophoresis
- ❖ Pain-related tests and experiments
 - Hot-plate, Formalin test, Tail-flick, Neuropathic pain
- ❖ CCI model of neuropathic pain induction
- ❖ Morphine tolerance induction
- ❖ Diabetes induction



Active Participation in Scientific Congresses/Conferences

- 11th International Congress of Wound and Tissue Repair, Tehran, Iran, 2024.
- 24th Iranian and 3rd International Congress of Physiology and Pharmacology, Poster Presentation, 2019.
- 11th World Congress on Euro Neuropharmacology, Prague, Czech Republic. 2019.
- 22nd Iranian Congress of Physiology and Pharmacology, Chabahar, Poster Presentation, 2018.
- 17th World Congress on Pain, International Association for the Study of Pain

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- (IASP), Boston, Poster Presentation, 2018.
- 13th Congress of Iranian Pain Society (IASP Chapter), Tehran, Oral and Poster Presentation, 2017.
- 16th World Congress on Pain, International Association for the Study of Pain (IASP), Yokohama, Poster Presentation, 2016.



Supervision of Student Research/Projects/Masters/PH.D.

- Investigating the Impact of Gallic Acid on Inflammatory Markers and Insulin Resistance in a Rat Model of Type 2 Diabetes
- How to improve ARDS complications of COVID-19
- Incretins: potential therapeutic agents to improve diabetes and diabetes complication
- Evaluation of antibacterial and healing effects of Asparagus Officinalis alcoholic extract: An experimental in vitro Study
- Paroxetine effects on morphine analgesic tolerance in rats
- Evaluating postoperative pain in addicted patients (Advisor)
- The in vitro evaluation of Mastic gum extract effect on dentin remineralization
- Evaluation of the prescriptions of second-generation anticholinergic drugs for the treatment of urinary incontinence and its comparison with first-generation drugs
- Effect of losartan on the CCI model of neuropathic pain: prophylaxis and treatment
- Effect of curcumin on the peripheral nerve injury pain: a behavioral study
- Investigation of crocin effect on neuropathic pain: prophylaxis and treatment.
- Non-alcoholic fatty liver disease (NAFLD): causes investigation and the last treatment approaches
- Investigation of the role of Tau Protein in neurodegenerative disease: post-translational modifications and preventive treatment approaches



Reviewing Dissertations, Scientific Papers, and Proposals

- Inhibitory Effect of Viola Odorata Extract on Tumor Growth and Metastasis in 4T1 Breast Cancer Model
- Wound healing and the effect of ANNAS a new product of AnbarNesa
- A stereological and biochemical examination: Hepatoprotective activity of Anthemis Odontostephana Boiss ethanolic extract against CCl4-induced hepatotoxicity in mice
- The effect of GSK3 β on activation of NF- κ B/p65 in spinal dorsal horn neurons of SNL neuropathic rats
- Comparing the effect of Duloxetine and Pregabalin on plasma concentration (NO) and induced Nitric Oxide Synthase (iNOS) in type 2 diabetic patients and the role of these mediators in neuropathic pain
- A laboratory evaluation of the inhibitory effect of Saralicum Allium against some species of standard Candida
- Assessing the effect of vitamin E on Streptozotocin-induced memory impairment in adult male Wistar rats
- Evaluating the effect of vitamin B5 on liver enzyme levels in Cholestatic rats – Bile duct obstruction model
- The effect of Ghrelin on antioxidant status in rats – Alzheimer's model
- Evaluation and characterization of alginate-based scaffolds prepared through the wet spinning technique for liver tissue engineering
- The effect of Phenamil and bone morphogenetic protein-9 on in-situ osteogenic differentiation of human amniotic epithelial cell
- Methods for investigating the effect of ANNAS (AnbarNesa Solution) on Interleukin17 involved in psoriasis lesions.

Curriculum Vitae



Teaching Experience and Educational Activities

- Teaching basic and clinical pharmacology to medical students (2014 to present)
- Teaching general pharmacology for dentistry (2015 to present)
- Teaching Basic and Clinical Pharmacology to MBBS Students.
- Teaching Pharmacology for Physiotherapy (Ph.D. Courses)
- Teaching Pharmacology for Physiology (Ph.D. Courses)
- Teaching Pharmacology for Clinical Biochemistry (Ph.D. Courses)
- Teaching clinical pharmacology for the master's courses in nutrition (2015 to present)
- Teaching pharmacology for the master's courses in physiology
- Teaching pharmacology for undergraduate courses in nutrition (2014 to present)
- Teaching basic and clinical pharmacology for undergraduate nursing, anesthesia, and operating room majors (2015 to present)
- Holding Scientific Paper Writing and Proposal Writing workshops
- Holding a workshop regarding the use of the *Endnote* software
- Holding a workshop regarding the use of the *SPSS* software



Honors and Achievements

- ✚ Top Ranking in Basic Sciences Examinations during Pharm.D. Course
- ✚ Top student of pharmacology during the Ph.D. course.
- ✚ Third place in the National Ph.D. Entrance Examination in Pharmacology (Ministry of Health and Medical Education)
- ✚ Formulation of a herbal ointment with a significant effect on diabetic wounds and bedsores
- ✚ Purifying a fish protein with excellent efficacy on diabetes



Potential References

- ❖ Professor Ali Haeri, E-mail: Haeria@sbmu.ac.ir.
- ❖ Professor Masoumeh Sabetkasaei, E-mail: Fkasaei@yahoo.com.
- ❖ Dr Khojasteh Joharch, E-mail:Joharchi-kh@sbmu.ac.ir.