

## *Curriculum Vitae*

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### **Personal information**

**Date of Birth:** 23 March 1988

**Place of Birth:** Iran, West Azerbaijan, Urmia

**Marital Status:** Married

### **EDUCATION**

**Tehran University of Medical Sciences, Faculty of Medicine, Tehran, Iran, PhD in Pharmacology, 2017**

**Kermanshah University of Medical Sciences, Faculty of pharmacy, Kermanshah, Iran, Pharm. D, 2013**

### **Title of thesis:**

**1- PhD Thesis:** The comparative study of protective effect of Metformin and Rapamycin on oxidative stress and apoptosis induced by testicular ischemia/reperfusion in rats

**Supervisor:** Eminent Prof. A. R. Dehpour

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**2- Pharm-D Thesis:** Preparation of Buspirone oral osmotic pump and

optimization of the physicochemical properties of the formulation in order to make continuous drug release

**Supervisor:** Prof. K. Derakhshandeh

### **EMPLOYMENT**

Assistant Professor, School of Pharmacy, Urmia University of Medical sciences, Urmia, Iran

### **PUBLICATIONS**

1. Ghasemnejad-Berenji, M., Ghazi-Khansari, M., Yazdani, I., Nobakht, M., Abdollahi, A., Ghasemnejad-Berenji, H., Mohajer Ansari, J., Pashapour, S. and Dehpour, A.R., 2018. Effect of metformin on germ cell-specific apoptosis, oxidative stress and epididymal sperm quality after testicular torsion/detorsion in rats. *Andrologia*, 50(2), p.e12846.
2. Ghasemnejad-Berenji, M., Ghazi-Khansari, M., Yazdani, I., Saravi, S.S.S., Nobakht, M., Abdollahi, A., Ansari, J.M., Ghasemnejad-Berenji, H., Pashapour, S. and Dehpour, A.R., 2017. Rapamycin protects testes against germ cell apoptosis and oxidative stress induced by testicular ischemia-reperfusion. *Iranian Journal of Basic Medical Sciences*, 20(8), p.905.
3. Derakhshandeh, K. Ghasemnejad-Berenji, M., 2014. Development and optimization of buspirone oral osmotic pump tablet. *Research in pharmaceutical sciences*, 9(4), p.233.
4. Ghasemnejad-Berenji, M., Ghazi-Khansari, M., Pashapour, S., Jafari, A., Yazdani, I., Ghasemnejad-Berenji, H., Saravi, S.S.S., Sadeghpour, S., Nobakht, M., Abdollahi, A. and mohajer Ansari, J., 2018. Synergistic effect of rapamycin and metformin against germ cell apoptosis and oxidative stress after testicular torsion/detorsion-induced ischemia/reperfusion in rats. *Biomedicine & Pharmacotherapy*, 105, pp.645-651.
5. Ghasemnejad-Berenji, H., Novin, M.G., Hajshafiha, M., Nazarian, H., Hashemi, S.M., Ilkhanizadeh, B., Ghasemnejad, T., Sadeghpour, S. and Ghasemnejad-Berenji, M., 2018. Immunomodulatory effects of hydroxychloroquine on Th1/Th2 balance in women with repeated implantation failure. *Biomedicine & Pharmacotherapy*, 107, pp.1277-1285.
6. Pashapour, S., Golmohammadlou, S., Behroozi-Lak, T., Ghasemnejad-Berenji, H., Sadeghpour, S. and Ghasemnejad-Berenji, M., 2019. Relationship between low maternal vitamin D status and the risk of severe preeclampsia: a case control study. *Pregnancy hypertension*, 15, pp.161-165.

7. Yazdani, I., Majdani, R., **Ghasemnejad-Berenji, M.** and Dehpour, A.R., **2019**. Comparison of multiple doses of cyclosporine A on germ cell apoptosis and epididymal sperm parameters after testicular ischemia/reperfusion in rats. *Experimental and molecular pathology*, 110, p.104271.
8. Jafari, A., Karimipour, M., Khaksar, M.R. and **Ghasemnejad-Berenji, M.**, **2020**. Protective effects of orally administered thymol against titanium dioxide nanoparticle–induced testicular damage. *Environmental Science and Pollution Research*, 27(2), pp.2353-2360.
9. Soran Sameei, H.S. and **Ghasemnejad-Berenji, M.**, **2020**. A Novel Effect of Acyclovir on Hair Growth in BALB/c Mice: A Promising Future for Finding a New Topical Drug for the Treatment of Hirsutism. *Clinical, Cosmetic and Investigational Dermatology*, 13, p.319.
10. Mahmoudzadeh, H., Nikibakhsh, A.A., Pashapour, S. and **Ghasemnejad-Berenji, M.**, **2020**. Relationship between low serum vitamin D status and urinary tract infection in children: a case–control study. *Paediatrics and International Child Health*, 40(3), pp.181-185.
11. Sadeghpour, S., **Ghasemnejad Berenji, M.**, Nazarian, H., Ghasemnejad, T., Nematollahi, M.H., Abroon, S., Paktinat, S., Heidari Khoei, H., Ghasemnejad Berenji, H. and Ghaffari Novin, M., **2020**. Effects of treatment with hydroxychloroquine on the modulation of Th17/Treg ratio and pregnancy outcomes in women with recurrent implantation failure: clinical trial. *Immunopharmacology and Immunotoxicology*, 42(6), pp.632-642.
12. **Ghasemnejad-Berenji, M.**, Pashapour, S. and Ghasemnejad-Berenji, H., **2020**. Therapeutic potential for clomiphene, a selective estrogen receptor modulator, in the treatment of COVID-19. *Medical Hypotheses*, 145, p.110354.
13. **Ghasemnejad-Berenji, M.** and Pashapour, S., **2021**. SARS-CoV-2 and the possible role of Raf/MEK/ERK pathway in viral survival: is this a potential therapeutic strategy for COVID-19?. *Pharmacology*, 106(1-2), pp.119-122.
14. **Ghasemnejad-Berenji, M.**, Nemati, M., Pourheydar, B., Gholizadeh, S., Karimipour, M., Mohebbi, I. and Jafari, A., **2021**. Neurological effects of long-term exposure to low doses of pesticides mixtures in male rats: Biochemical, histological, and neurobehavioral evaluations. *Chemosphere*, 264, p.128464.
15. **Ghasemnejad-Berenji, M.**, Pashapour, S. and Sadeghpour, S., **2021**. Pentoxifylline: a drug with antiviral and anti-inflammatory effects to be considered in the treatment of coronavirus disease 2019. *Medical Principles and Practice*, 30(1), pp.98-100.
16. **Ghasemnejad-Berenji, M.** and Pashapour, S., **2021**. Favipiravir and COVID-19: a simplified summary. *Drug research*, 71(03), pp.166-170.
17. **Ghasemnejad-Berenji, M.**, **2021**. mTOR inhibition: a double-edged sword in patients with COVID-19?. *Human Cell*, 34(2), pp.698-699.

18. Khezri, M.R., Malekinejad, H., Majidi-Zolbanin, N. and Ghasemnejad-Berenji, M., 2021. Anticancer potential of metformin: focusing on gastrointestinal cancers. *Cancer chemotherapy and pharmacology*.
19. Salehi, C., Seiiedy, M., Soraya, H., Fazli, F. and Ghasemnejad-Berenji, M., 2021. Pretreatment with bisoprolol and vitamin E alone or in combination provides neuroprotection against cerebral ischemia/reperfusion injury in rats. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 394(4), pp.685-695.
20. Khezri, M.R., Yousefi, K. and Ghasemnejad-Berenji, M., 2021. Angiotensin II: A possible target for therapeutic intervention in COVID-19. *Biomedicine & Pharmacotherapy= Biomedecine & Pharmacotherapie*, 139, pp.111564-111564.
21. Ghasemnejad-Berenji, M., 2021. Immunomodulatory and anti-inflammatory potential of crocin in COVID-19 treatment. *Journal of Food Biochemistry*, 45(5), p.e13718.
22. Jafari, A., Ghasemnejad-Berenji, H., Nemati, M. and Ghasemnejad-Berenji, M., 2021. Topiramate: A novel protective agent against ischemia reperfusion-induced oxidative injury after testicular torsion/detorsion. *The American Journal of Emergency Medicine*, 44, pp.257-261.
23. Jafari, A., Ghasemnejad-Berenji, H., Nemati, M., Pashapour, S., Sadeghpour, S. and Ghasemnejad-Berenji, M., 2021. Beneficial effects of memantine on ischemia/reperfusion injury following torsion/detorsion induced testicular damage in rats: Improvement in histological and biochemical parameters. *Journal of Pediatric Urology*, 17(4), pp.441-e1.
24. Khezri, M.R., Zolbanin, N.M., Ghasemnejad-Berenji, M. and Jafari, R., 2021. Azithromycin: Immunomodulatory and antiviral properties for SARS-CoV-2 infection. *European journal of pharmacology*, 905, p.174191.
25. Jafari, A., Sadeghpour, S., Ghasemnejad-Berenji, H., Pashapour, S. and Ghasemnejad-Berenji, M., 2021. Potential antioxidative, anti-inflammatory and immunomodulatory effects of ghrelin, an endogenous peptide from the stomach in SARS-CoV2 infection. *International Journal of Peptide Research and Therapeutics*, 27(3), pp.1875-1883.
26. Berenji, M.G., Berenji, H.G., Pashapour, S. and Sadeghpour, S., 2021. Serum Netrin-1 and Urinary KIM-1 levels as potential biomarkers for the diagnosis of early preeclampsia. *Journal of Obstetrics and Gynaecology*, pp.1-5.
27. Khezri, M.R., Ghasemnejad-Berenji, M. and Jafari, R., 2021. Skin Tissue: A Place for SARS-CoV-2 to Multiply and Transmit?. *Advances in Skin & Wound Care*, 34(10), pp.513-514.
28. Khezri, M.R., Ghasemnejad-Berenji, M. and Mahboubi, N., 2021. The probable mechanism of reduced androgen level in COVID-19 patients. *Hormone Molecular Biology and Clinical Investigation*.

29. Khezri, M.R. and Ghasemnejad-Berenji, M., 2021. Neurological effects of elevated levels of angiotensin II in COVID-19 patients. *Human Cell*, 34(6), pp.1941-1942.
30. Nazari-Khanamiri, F. and Ghasemnejad-Berenji, M., 2021. Cellular and molecular mechanisms of genistein in prevention and treatment of diseases: An overview. *Journal of Food Biochemistry*, 45(11), p.e13972.
31. Ghasemnejad-Berenji, M., 2022. Can sulfasalazine as an old drug with immunomodulatory and anti-inflammatory effects be effective in COVID-19?. *Journal of basic and clinical physiology and pharmacology*, 33(1), pp.113-115.
32. Sadeghpopur, S., Ghasemnejad-Berenji, H., Pashapour, S. and Ghasemnejad-Berenji, M., 2022. Using of calcium channel blockers in patients with COVID-19: a magic bullet or a double-edged sword?. *Journal of basic and clinical physiology and pharmacology*, 33(1), pp.117-119.
33. Khezri, M.R., Yousefi, K., Zolbanin, N.M. and Ghasemnejad-Berenji, M., 2022. MicroRNAs in the pathophysiology of Alzheimer's disease and Parkinson's disease: an overview. *Molecular neurobiology*, pp.1-15.
34. Khezri, M.R., Yousefi, K., Esmaili, A. and Ghasemnejad-Berenji, M., 2022. The Role of ERK1/2 Pathway in the Pathophysiology of Alzheimer's Disease: An Overview and Update on New Developments. *Cellular and Molecular Neurobiology*, pp.1-15.
35. Khezri, M.R., Yousefi, K., Mahboubi, N., Hodaei, D. and Ghasemnejad-Berenji, M., 2022. Metformin in Alzheimer's disease: An overview of potential mechanisms, preclinical and clinical findings. *Biochemical Pharmacology*, p.114945.
36. Khezri, M.R. and Ghasemnejad-Berenji, M., 2022. The Probable Mechanism of Hair Loss in Patients With COVID-19. *The American Journal of Dermatopathology*.
37. Khezri, M.R., Varzandeh, R. and Ghasemnejad-Berenji, M., 2022. The probable role and therapeutic potential of the PI3K/AKT signaling pathway in SARS-CoV-2 induced coagulopathy. *Cellular & Molecular Biology Letters*, 27(1), pp.1-10.
38. Gastroprotective effect of topiramate on indomethacin-induced peptic ulcer in rats: Biochemical, and histological analyses Abbas Jafari, Nafiseh Andishfar, Zeinab Esmaeilzadeh, Morteza Ghasemnejad-Berenji, article has been accepted in *Basic and Clinical Pharmacology and Toxicology*. February 2022.
39. Khezri MR, Varzandeh R, Ghasemnejad-Berenji M. Bmal1 and Gut-lung axis in SARS-CoV-2 infection: new insight into the effects of melatonin on COVID-19 patients? *Biomedicine & Pharmacotherapy*. 2023 Aug 1; 164:114291.

## **CONFERENCES**

Poster presentation:

Ghasemnejad-berenji M., Derakhshandeh K. Development and optimization of buspirone oral osmotic pump tablet. 16 th Iranian Pharmacy Students Seminar (IPSS-16), 6th-9th October 2011, Tehran, Iran.

## **Workshops**

Educational skills course consisting: educational planning, Teaching and learning principles and Methods, student Assessment, and Conceptual Learning workshops. Tehran University of Medical Sciences, Tehran, Iran.

The Workshop on “Scientific Writing”, Tehran University of Medical Sciences, Tehran, Iran.

The Workshop on “Western Blotting”, Tehran University of Medical Sciences, Tehran, Iran, October, 2017.

Workshop of preliminary research methods. Tehran University of Medical Sciences, Tehran, Iran.

The workshop on “Research Methods and Proposal Writing”, Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran, February 2010.

## **ACHIEVEMENTS**

2nd-ranked in National Exam of PhD in Pharmacology of IRAN, 2012-2013  
Exceptional talent of Tehran University of Medical Sciences 2013

## **Memberships:**

Iranian Association of Pharmacists (Since 2011)

Teaching experience:

Teaching "Pharmacology" for pharmacy and medical students, Urmia University of Medical Sciences, Urmia, Iran.

## **SKILLS**

- Animal handling: Injection, gavage, surgery
- Testicular torsion/detorsion (model of ischemia/reperfusion)
- Enzymatic assays
- Inflammation studies
- Histopathological studies
- ELISA
- Detection of apoptosis by TUNEL assay
- Behavioral pharmacologic models: Open-field test (OFT), Porsolt forced swimming test (FST) (model of depression), Elevated plus-maze (EPM) and Light/dark box test in mouse and rat (model of anxiety), Morris water maze (model of learning and memory)
- Pentylenetetrazol (PTZ) kindling model of epilepsy
- Streptozotocin (STZ)-induced diabetic model in mice and rats

## **Computer skills:**

- Advanced Microsoft Office skills
- GraphPad Prism
- SigmaPlot
- EndNote

## **RESEARCH INTERESTS**

- Pharmacology of reproduction and fertility
- Oxidative stress
- Inflammation
- Neuropharmacology
- Gastrointestinal Pharmacology