

Curriculum Vitae

Dr Farzaneh Shakeri

Personal Details

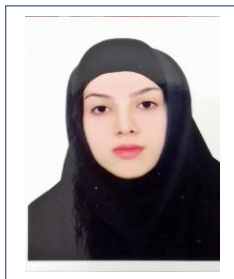
Gender: Female

Marital Status: Married

Birth date: November 2, 1987

Citizenship: Iran

E-mail: F.shakeri@nkums.ac.ir
F_1366_sh@yahoo.com



Professional Experience: Head of Natural Products and Medicinal Plants Research Center, North Khorasan University of Medical Sciences, Bojnurd, Iran, 2023–Present

Academic qualifications

MSc in Medical Education

Shahid Beheshti University of Medical Sciences, Iran, 2021-2023. GPA: 20

MSc Thesis entitled "Scoping review of clinical reasoning evaluation methods in medical sciences"

PhD in human Physiology

Mashhad University of Medical Sciences, Iran, 2012-2017. GPA: 19/65

PhD Thesis entitled "The effect hydro-ethanolic extract of *curcuma longa* and the most important effective substance of it, curcumin on lung changes in sensitized rats"

Doctor of Veterinary Medicine (DVM)

Ferdowsi University of Mashhad, Iran, 2005-2011. GPA: 19/87

DVM Thesis entitled "The relation between biochemical parameters particularly creatinine, urea, hepatic enzymes, uric acid, bilirubin serum by balancing pro oxidant antioxidant in rheumatoid arthritis disease"

Collaboration

Collaboration as the reviewer for:

Avicenna Journal of Phytomedicine

Iranian Journal of Basic Medical Sciences

Iranian Journal of Pharmaceutical Research

Journal of Toxicology and Pharmacology

Medical Science Monitor

Journal of Asthma and Allergy

Food Reviews International

Inflammation

Evidence-based complementary and alternative medicine

Journal of Essential Oil Research

Teaching experiences

List of Lessons	Academic year	Educational group	University
Physiology	Since 98 until now	Medical and Dentistry	North Khorasan University of Medical Sciences
Physiology	Second semester 97-98	Medical emergency	North Khorasan University of Medical Sciences
Physiology	Second semester 97-98	Dentistry	North Khorasan University of Medical Sciences
Physiology	First semester 97-98	Medical	North Khorasan University of Medical Sciences
Physiology	First semester 97-98	Dentistry	North Khorasan University of Medical Sciences
Physiology	Second semester 96-97	Dentistry	North Khorasan University of Medical Sciences
Physiology	First semester 95-94	Anesthesiology	School of Nursing and Midwifery, Mashhad
Physiology	Second semester 95-94	Anesthesiology	School of Nursing and Midwifery, Mashhad
Physiology	First semester 94-93	Nursing	Islamic Azad University of Quchan
Physiology	First semester 94-93	Midwifery	Islamic Azad University of Quchan
Physiology	Second semester 94-93	Nursing	Islamic Azad University of Quchan
Physiology	Second semester 94-93	Midwifery	Islamic Azad University of Quchan
Practical Physiology	First semester 93-92	Medical	Mashhad University of Medical Sciences
Practical Physiology	Second semester 93-92	Medical	Mashhad University of Medical Sciences
Practical Physiology	First semester 93-92	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	Second semester 93-92	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	First semester 93-92	Pharmacy	Mashhad University of Medical Sciences
Practical Physiology	Second semester 93-92	Pharmacy	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-93	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-93	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-93	Medical	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-93	Medical	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-93	Pharmacy	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-93	Pharmacy	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-95	Medical	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-95	Medical	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-95	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-95	Dentistry	Mashhad University of Medical Sciences
Practical Physiology	First semester 94-95	Pharmacy	Mashhad University of Medical Sciences
Practical Physiology	Second semester 94-95	Pharmacy	Mashhad University of Medical Sciences

Proposals

1. The effects of ethanolic extract of *Punica granatum* peel on pentylenetetrazole-induced seizures in mice (Executor), **(Finished)**.
2. The effects of ethanolic extract of *Artemisia Sieberi* on pentylenetetrazole-induced seizures in mice (Executor), **(Finished)**.
3. Evaluation of inducible nitric oxide synthase inhibitor, aminoguanidine on renal and cardiac oxidative stress parameters in a propyl thiouracil-induced hypothyroid model in rats (Executor), **(Finished)**.
4. The effect of cedrol on memory impairment induce by scopolamine in rats (Executor), **(Finished)**.
5. Evaluation and comparison of the of miR-124 and Levodopa cinematic effect on 6-OHDA-neurotoxicity in PC12 cells differentiated as Parkinson's model (Co-Worker).
6. The effect of methanolic extract of *Chaerophyllum khorassanicum* on anxiety and the role of opioid receptors in mice (Executor), **(Finished)**.
7. Investigation of possible mechanisms of anti-anxiety effect of ethanolic extract of *Punica granatum* peel (Executor), **(Finished)**.
8. The role of GABA receptors on anxiolytic effects of the methanolic extract of *Ferula gummosa* in mice (Executor), **(Finished)**.
9. The effects of vitamin D on anxiety and depression-like behaviors, brain tissue oxidative damage and inflammation induced by lipopolysaccharide in rat (Executor), **(Finished)**.
10. The effect of hydro-alcholic extract of *Zataria multiflora* on kidney function impairments induced by lipopolysaccharide in rat (Executor), **(Finished)**.
11. The effect of hydro-alcholic extract of *Cinnamomum zeylanicum* and its fractions on pentylenetetrazole-induced seizures and the brain tissue oxidative damage in mice (Executor), **(Finished)**.
12. Evaluation of anti-anxiety effect of *Lepidium draba* methanolic extract on elevated plus maze method in mice (Executor), **(Finished)**.
13. A study on quality of infection control and the accuracy of autoclaves function in Bojnourd dental health care centers in 1398 (Co-Worker).
14. Investigating the procedure for insitu plating and bone graft surgery without nail exchange in treatment of femoral nonunion after fixation with intramedullary nail **(Finished)**.

15. Auraptene effect on anxiety in male Mice (Co-Worker), (**Finished**).
16. Design of Eucalyptus essential oil based nanoemulsion system base for inhalation purpose (Co-Worker), (**Finished**).
17. Design and fabrication of a 3D Collagen/ Hydroxyapatite Hybrid Scaffold Functionalized with Naringin–silica Nanoparticles for Osteogenic Differentiation of Adipose-Derived Stem Cells (ADSCs), (Co-Worker).
18. Evaluation of efficiency and anti-inflammatory properties of Taraxasterol- PLGA-PEG nanoparticles using OVA-induced murine asthma model (Co-Worker), (**Finished**).
19. Design and fabrication of a 3D Collagen/ chitosan Hybrid Scaffold Functionalized with ZnO/Ag Nanoparticles for Bone Tissue engineering (Executor), (**Finished**).
20. The evaluation of the effects of Aurapten on the expression of brain inflammatory gens IL-1 β , TNF- α , and oxidant response of brain following traumatic brain injury in male rats (Co-Worker), (**Finished**).
21. Purification of compounds derived from methanol extract of *Juglans regia* septum using HPLC and investigation of their cytotoxic and apoptogenic effects on human cancer cell lines (MCF-7, PC-3 and AGS), (Co-Worker).
22. Systematic review of therapeutic properties of xiaoyao wan based on traditional Chinese medicine in gynecological, psychiatric, and dermatological disorders (Co-Worker).
23. Investigating the effects of antibacterial, antioxidant and cytotoxic of methanolic extract of *Lepidium draba* and purification of its compounds by HPLC (Co-Worker).
24. The effect of methanolic extract of *Scutellaria pinnatifida* root on anxiety by elevated plus maze method in mice (Co-Worker), (**Finished**).
25. The assessment of the antibacterial and dental caries-preventing efficacy of dental varnish formulations based on propolis, miswak and *Aloe vera* in extracted human premolar teeth (Co-Worker).
26. Inhibition of oxidative stress by extract of *Juglans regia* sputum in Human Umbilical Vein Endothelial Cells (Co-Worker).
27. Design and fabrication of a 3D polycaprolactone/gelatin Hybrid Scaffold Functionalized with ZnO/Ag and Vitamin D3 Nanoparticles for Bone Tissue engineering (Executor).
28. Fabrication of Polycaprolactone/carboxymethyl chitosan /nano-hydroxyapatite Functionized with Atorvastatin Scaffolds for Improving Bone Regeneration (Executor)

29. Formulation of mPEG-PLGA/Thymoquinone Nanoparticles and Evaluation of their Anti-inflammatory properties: A Novel Nano therapeutic Agent for Asthma Treatment (Co-Worker).
30. Fabrication and characterization of ZnO nanoparticles/ polycaprolactone/ polyethylene glycol /chitosan scaffolds enriched by platelet-rich plasma for bone tissue regeneration (Co-Worker).
31. Production of edible oil using natural antioxidant with walnut instead of artificial antioxidants (Co-Worker), **(Finished)**.
32. The effect of hydro-ethanolic extract of *curcuma longa* and its most important effective substance, curcumin on lung changes in sensitized rats. (Executor), **(Finished)**.
- 33- The effect of hydro-ethanolic extract of *curcuma longa* and its most important effective substance, curcumin on tracheal smooth muscle of rat and its possible mechanisms. (Executor), **(Finished)**.
- 34- The effect of hydro-ethanolic extract of *Crocus sativus* and its most important effective substance, crocin on tracheal smooth muscle of rat and its possible mechanisms. (Executor), **(Finished)**.
- 35- The bronchodilatory effect of *Curcuma longa* and curcumin on asthmatic patients. (Executor).
- 36- The effect of hydro-ethanolic extract of *Allium cepa* on tracheal responsiveness, lung inflammation and pathological changes of the lung in sensitized rats. (Executor), **(Finished)**.
- 37- The effect of hydro-ethanolic extract of *Ocimum basilicum* and rosmarinic acid on airway responsiveness and lung pathological changes, the total number and types of white blood cells and inflammatory mediators in ovalbumin-sensitized rats. (Co-Worker), **(Finished)**.
- 38- The effect of hydro-ethanolic extract of *portulaca oleracea* and alpha linolenic acid on airway responsiveness and lung inflammation in sensitized rats. (Co-Worker), **(Finished)**.
- 39- The bronchodilatory effect of *Zataria multiflora* and carvacrol on asthmatic patients. (Co-Worker), **(Finished)**.
- 40- The antioxidant effect of *Ferula szowitsiana* and auranthol on stimulated and un-stimulated human lymphocytes. (Co-Worker), **(Finished)**.

41- Determination of Clostridium Septicum Purified Alpha Toxin Antigenesis. (Co-Worker),
(Finished).

Publications

- 1- **Farzaneh Shakeri**, Mohammad Hossein Boskabady. A review of the relaxant effect of various medicinal plants on tracheal smooth muscle, their possible mechanism(s) and potency. *Journal of Ethnopharmacology*, 2015; 175: 528-548. (Publish)
- 2- **Farzaneh Shakeri**, Mohammad Hossein Boskabady. Anti-inflammatory, antioxidant and immunomodulatory effects of curcumin in sensitized rat. *BioFactors*. 2017;1;1-10. (Publish)
- 3- **Farzaneh Shakeri**, Mohammad Hossein Boskabady. The Effect of hydro-ethanolic extract of *Curcuma longa* and curcumin on total and differential WBC and serum oxidant, antioxidant biomarkers in rat model of asthma. *Iranian Journal of Basic Medical Sciences*. 2017; 20(2): 326-336. (Publish)
- 4- **Farzaneh Shakeri**, Nama Mohamadian Roshan, Mahsa Kaveh, Naeima Eftekhari, Mohammad Hossein Boskabady. Curcumin affects tracheal responsiveness and lung pathology in asthmatic rats. *Pharmacological Reports*, 2018; 70(5): 981-987. (Publish)
- 5- Zahra Gholamnezhad, Vahideh Ghorani, Saeideh Saadat, **Farzaneh Shakeri**, Mohammad Hossein Boskabady. The effects of medicinal plants on muscarinic receptors in various types of smooth muscle. *Phytother Res*. 2018;1: 1-15. (Publish)
- 6- Boskabady M, Marefati N, Farkhondeh T, **Shakeri F**, Farshbaf A, Boskabady MH. The effect of environmental lead exposure on human health and the contribution of inflammatory mechanisms, a review. *Environ Int*. 2018;120: 404-420. (Publish)
- 7- **Farzaneh Shakeri**, Zahra Gholamnezhad, Bruno Mégarbane, Ramin Rezaee, Mohammad Hossein Boskabady. Gastrointestinal effects of *Nigella sativa* and its main constituent, thymoquinone: a review. *Avicenna Journal of Phytomedicine*, 2016;6(1):9-20. (Publish)
- 8- Sahebari M, **shakeri F**, Ghodrati Azadi H, Ghayour-Mobarhan M, Parizadeh MR, Arjmand MH, Hamidi Alamdari D. Pro-oxidant- Antioxidant Balance (PAB) in Rheumatoid Arthritis and its Relationship to Disease Activity. *Current Rheumatology Reviews*, 2015;11(1): 28-33. (Publish)

- 9- **Farzaneh Shakeri**, Vahid Rostamian, Jasem Estakhr, Mojtaba shokofti. The analgesic effects of hydroalcoholic extract of *Varthemia Persica* in male rats in both acute and chronic pains. Pharmacology online, 2012;1:39-43. (Publish)
- 10- Vahid Rostamian, **Farzaneh Shakeri (corresponding author)**, Jasem Estakhr. The Effect of Hydro-alcoholic Extract of *Grape Seed (Vitis vinifera)* on Sugar and Lipids in Serum of Diabetic Rat. Research Journal of Biological Science, 2011;6(10):547-549. (Publish)
- 11- **Farzaneh Shakeri**, Vahid Rostamian, Jasem Estakhr. Analgesic Properties of Methanolic Extract of *Matricaria recutita* in Rats in both Acute and Chronic Pains. Asian Journal of Medical Sciences, 2012;4(4): 152-155. (Publish)
- 12- Vahid Rostamian, **Farzaneh Shakeri (corresponding author)**, Jasem Estakhr. The Effect of Hydro-Alcoholic Extract of *Strawberry Leaf* on Sugar and Lipids in Serum of Diabetic Rats. Pharmacologyonline, 2011;3:1171-1175. (Publish)
- 13- Rostamian V, Hemmati M, **Shakeri F**, Estakhr J, Javdan N, Motalleb G. Anti-Clostridium Septicum Alpha Toxin Antibody Purification. Journal of US-China Medical Science, 2011;8(1): 40-45. (Publish)
- 14- Saeideh Saadat, **Farzaneh Shakeri**, Mohammad Hossein Boskabady. Comparative antitussive effect of medicinal plants and their constituents. Altern Ther Health Med. 2018; 24(4): 36-49. (Publish)
- 15- Bahman Emami, **Farzaneh Shakeri**, Vahideh Ghorani, Mohammad Hossein Boskabady. Relaxant effect of *Curcuma longa* on rat tracheal smooth muscle and its possible mechanisms. Pharm Biol. 2017; 55(1):2248-2258. (Publish).
- 16- Naeima Eftekhar, Ali Moghimi, Mohammad Hossein Boskabady, Mahsa Kaveh, **Farzaneh Shakeri**. *Ocimum basilicum* affects tracheal responsiveness, lung inflammatory cells and oxidant-antioxidant biomarkers in sensitized rats. Drug Chem Toxicol. 2018; 23:1-9. (Publish)
- 17- **Farzaneh Shakeri**, Naeima Eftekhar, Nama Mohammadian Roshan, Ramin Rezaee, Ali Moghimi, Mohammad Hossein Boskabady. Rosmarinic acid affects immunological and inflammatory mediator's levels and restores lung pathological features in asthmatic rats. Allergol Immunopathol, 2018; 46(18):1-7. (Publish)

- 18- Vahideh Ghorani, Narges Marefati, **Farzaneh Shakeri**, Ramin Rezaee, Marzie Boskabady, Mohammad Hossein Boskabady. The effects of *Allium cepa* extract on tracheal responsiveness, lung inflammatory cells and phospholipase A₂ level in asthmatic rats. Iranian Journal of Allergy, Asthma and Immunology, 2018;17(3):1-10. (Publish)
- 19- **Farzaneh Shakeri**, Saeideh Saadat, Kosar Bavarsad, Mohammad Hossein Boskabady. The effects of medicinal plants on histamine (H₁) receptors. Jundishapur Journal of Physiology. 2018; 2(2): 1-9. (Publish)
- 20- **Farzaneh Shakeri**, Vahideh Ghorani, Saeideh Saadat, Zahra Gholamnezhad, Mohammad Hossein Boskabady. The stimulatory effects of medicinal plants on β 2-adrenoceptors of tracheal smooth muscle. Iranian Journal of Allergy, Asthma and Immunology, 2019; 18(1):12-26. (Publish)
- 21- **F. Shakeri**, M. Khazaei and M. H. Boskabady. Cardiovascular Effects of *Nigella Sativa* L. and its Constituents. Indian Journal of Pharmaceutical Sciences, 2018;80(6):971-983. (Publish)
- 22- **Farzaneh Shakeri**, Mohammad Hossein Boskabady. Hydro-ethanolic extract of *curcuma longa* affects tracheal responsiveness and lung pathology in ovalbumin-sensitized rat. International Journal for Vitamin and Nutrition Research, 2019; 1-7. (Publish)
- 23- Zahra Gholamnezhad, **Farzaneh Shakeri**, Saiedeh Saadat, Vahideh Ghorani, Mohammad Hossein Boskabady. Clinical and experimental effects of *Nigella sativa* and its constituents on respiratory and allergic disorders. Avicenna Journal of Phytomedicine, 2019; 9(3)195-202. (Publish)
- 24- Mohammad Hossein Boskabady, Mahsa Kaveh, **Farzaneh Shakeri**, Nama Mohammadian Roshan, Ramin Rezaee. Alpha-linolenic acid affects lung inflammation, oxidative stress and pathology in sensitized rats. Journal of Pharmacy and Pharmacology, 2019; 1:1-8. (Publish)
- 25- **Farzaneh Shakeri**, Mahmoud Hosseini, Ahmad Ghorbani. Neuropharmacological effects of *Ocimum basilicum* and its constituents. Physiology and Pharmacology, 2019; 23:70-81. (Publish)
- 26- Keshavarzi Z, **Shakeri F**, Barreto GE, Bibak B, Sathyapalan T, Sahebkar A. Medicinal plants in traumatic brain injury: Neuroprotective mechanisms revisited. Biofactors, 2019; 1-19. (Publish)

- 27- Bibak B, **Shakeri F**, Barreto GE, Keshavarzi Z, Sathyapalan T, Sahebkar A. A review of the pharmacological and therapeutic effects of auraptene. *Biofactors*, 2019; 1-13. (Publish)
- 28- Mohammad Hossein Boskabady, Mahsa Kaveh, **Farzaneh Shakeri**, Nama Mohammadian Roshan, Ramin Rezaee. Hydro-ethanolic extract of *Portulaca oleracea* affects total and differential WBC, lung pathology and oxidative biomarkers in asthmatic rats. *Iranian Journal of Pharmaceutical Research*, 2019: 1947-58. (Publish)
- 29- Bahman Emami, Farzaneh Shakeri, Zahra Golamnezhad, Vahab Azmoonfar, Mohammad Hossein Boskabady. Calcium and potassium channels are involved in curcumin relaxant effect on tracheal smooth muscles. *Pharmaceutical Biology*, 2020:257-64. (Publish)
- 30- A review of anti-inflammatory, antioxidant, and immunomodulatory effects of *Allium cepa* and its main constituents. *Pharmaceutical Biology*, 2021: 287-302. (Publish)
- 31- **Farzaneh Shakeri**, Mohammad Hossein Boskabady. The effect of *Curcuma longa* on inflammatory mediators, immunological markers and oxidant, antioxidant biomarkers in asthmatic rat. *Evidence-Based Complementary and Alternative Medicine*, 2021: 1-13. (Publish)
- 32- Mohammad Hossein Boskabady, **Farzaneh Shakeri**, Farzaneh Naghdi. The effects of *Curcuma longa* and its constituents in respiratory disorders and molecular mechanisms of their action. Book of "***Studies in Natural Products Chemistry***" (Bioactive Natural Products), edited by Prof. Atta-ur-Rahman, *FRS*, Published by Elsevier Science Publishers. (Publish)
- 33- Fatemeh Amin, Arghavan Memarzia, Hamideh Kazemi Rad, **Farzaneh Shakeri**, Mohammad Hossein Boskabady. Systemic inflammation and oxidative stress induced by inhaled paraquat in rat improved by carvacrol, possible role of PPAR γ receptors. *BioFactors*. 2021;1–10. (Publish)
- 34- Fatemeh Amin, Arghavan Memarzia, Ali Roohbakhsh, **Farzaneh Shakeri**, Mohammad Hossein Boskabady. *Zataria multiflora* and Pioglitazone Affect Systemic Inflammation and Oxidative Stress Induced by Inhaled Paraquat in Rats. *Mediators of Inflammation*. 2021;1–11. (Publish)
- 35- **Farzaneh Shakeri**, Narges Marefati, Nama Mohammadian Roshan, Marzie Boskabady, Mohammad Hossein Boskabady. Effect of *Allium cepa* extract on total and differential WBC, TP level, oxidant and antioxidant biomarkers and lung pathology in ovalbumin sensitized rat. *Allergologia et Immunopathologia*. 2023;51(3). (Publish)

- 36- Zakieh Keshavarzi, Mehran Vatanchian, Aleme Ashekar, Morteza Behnamfar, Alireza Abbaspour, Bahram Bibak, Saeid Barzegar, **Farzaneh Shakeri (corresponding author)**. The effect of woody endocarpium of walnut alcoholic extract on acetic acid-induced ulcerative colitis in rats. *Brazilian Journal of Pharmaceutical Sciences*. 2022; 1(1-11). (Publish)
- 37- **Shakeri F**, Bibak B, Safdari MR, Keshavarzi Z, Jamialahmadi T, Sathyapalan T, Sahebkar A. Cellular and Molecular Mechanisms of Curcumin in Thyroid Gland Disorders. *Curr Med Chem*. 2022;29(16):2878-2890. (Publish)
- 38- Afshari AR, Sanati M, Aminyavari S, **Shakeri F**, Bibak B, Keshavarzi Z, Soukhtanloo M, Jalili-Nik M, Sadeghi MM, Mollazadeh H, Johnston TP, Sahebkar A. Advantages and drawbacks of dexamethasone in glioblastoma multiforme. *Crit Rev Oncol Hematol*. 2022; 172:103625. (Publish)
- 39- Bibak B, **Shakeri F**, Keshavarzi Z, Mollazadeh H, Javid H, Jalili-Nik M, Sathyapalan T, Afshari AR, Sahebkar A. Anticancer Mechanisms of Berberine: A Good Choice for Glioblastoma Multiforme Therapy. *Curr Med Chem*. 2022;29(26):4507-4528. (Publish)
- 40- Safdari MR, **Shakeri F**, Mohammadi A, Bibak B, Alesheikh P, Jamialahmadi T, Sathyapalan T, Sahebkar A. Role of Herbal Medicines in the Management of Brain Injury. *Adv Exp Med Biol*. 2021; 1328:287-305. (Publish)
- 41- Keshavarzi Z, **Shakeri F**, Maghool F, Jamialahmadi T, Johnston TP, Sahebkar A. A Review on the Phytochemistry, Pharmacology, and Therapeutic Effects of *Rheum ribes*. *Adv Exp Med Biol*. 2021; 1328:447-461. (Publish)
- 42- Hosseini M, Arab Z, Beheshti F, Anaeigoudari A, **Shakeri F**, Rajabian A. *Zataria multiflora* and its constituent, carvacrol, counteract sepsis-induced aortic and cardiac toxicity in rat: Involvement of nitric oxide and oxidative stress. *Animal Model Exp Med*. 2023 Jun;6(3):221-229. (Publish)
- 43- Arab Z, Salmani H, Marefati N, Beheshti F, Anaeigoudari A, **Shakeri F**, Tajmazinani N, Hosseini M. Protective effects of hydro-alcoholic extract of *Zataria multiflora* on lipopolysaccharide-induced inflammation and oxidative stress in rat liver. *Avicenna J Phytomed*. 2023 Sep-Oct;13(5):531-540. (Publish)
- 44- **Shakeri F**, Kiani S, Rahimi G, Boskabady MH. Anti-inflammatory, antioxidant, and immunomodulatory effects of *Berberis vulgaris* and its constituent berberine, experimental and clinical, a review. *Phytother Res*. 2024 Apr;38(4):1882-1902. (Publish)

- 45- Mousavi, S. H., Jalili-Nik, M., Soukhtanloo, M., Soltani, A., Abbasinezhad-Moud, F., Mollazadeh, H., **Shakeri, F.**, Bibak, B., Sahebkar, A., Afshari, A. R. Auraptene inhibits migration, invasion and metastatic behavior of human malignant glioblastoma cells: An in vitro and in silico study. *Avicenna Journal of Phytomedicine*, 2024; 14(3): 349-364. (Publish)
- 46- Teymouri, M., Mollazadeh, S., Oroojalian, F., Amani, A., Arezumand, R., **Shakeri, F.**, Besharati, R., Zarghami Moghaddam, P. Liposomes used in the delivery of various antimicrobials to biofilm-producing infections: a systematic review. *Nanomedicine Journal*, 2025; 12(2): 153-180. doi: 10.22038/nmj.2025.78800.1931.
- 47- Ghazanfary S, Rahmanian M, Vatanchian M, Haghbin A, Shakeri F, Oroojalian F. Characterization and efficacy evaluation of mPEG-PLGA/taraxasterol acetate nanoparticles as nano-therapeutic agents in asthma management. *BioNanoScience*. 2025;15(124). doi:10.1007/s12668-024-01677-6.
- 48- Ghasemzadeh Rahbardar M, Shakeri F, Boskabady MH. Medicinal plants and histamine (H1) receptors: an updated review. *Pharm Sci*. 2025;31(3):216-236. doi:10.34172/PS.025.42115.

Books

1. Mohammad Hossein Boskabady, **Farzaneh Shakeri**, and Farzaneh Naghdi. The effects of *Curcuma Longa* L. and its constituents in respiratory disorders and molecular mechanisms of their action. **Studies in Natural Products Chemistry (Bioactive Natural Products)**
2. **Farzaneh Shakeri**. Curcumin and Respiratory Disease. Samand Publication
3. Mohammad Reza Safdari, **Farzaneh Shakeri**, Ameneh Mohammadi, Bahram Bibak, Peiman Alesheikh, Tannaz Jamialahmadi, Thozhukat Sathyapalan, Amirhossein Sahebkar. Role of Herbal Medicines in the Management of Brain Injury. "**Natural Products and Human Diseases**" in **Advances in Experimental Medicine and Biology**.

Technology commercialization

1. Production of edible oil using natural antioxidant with walnut instead of artificial antioxidants
2. Making herbal mouthwash
3. Anti-Leishmania ointment

Awards

1. Top researcher of North Khorasan University of Medical Sciences in 1397
2. Researcher has a review article with the highest impact factor in the university in 1397
3. Top researcher of North Khorasan University of Medical Sciences in 1398
4. Top researcher of North Khorasan University of Medical Sciences in the Department of Basic Sciences in 1398
5. Grant is a top researcher in 1397
6. 15 million grant from the Ministry of Health for young researchers
7. \$ 1000 Young Researcher Award

Published Abstracts and Presentation of Congress

1. Role of Herbal Medicines in the Management of Brain Injury

Safdari MR, Shakeri F, Bibak B

(The 4th International Congress and the 25th Congress of Physiology and Pharmacology of Iran, 20-22 Oct 2021)

2. Effect of *Allium cepa* extract on total and differential WBC and TP level in ovalbumin sensitized rats

Farzaneh Shakeri, Narges Marefati, Mohammad Hossein Boskabady

(The 4th International Congress and the 25th Congress of Physiology and Pharmacology of Iran, 20-22 Oct 2021)

3. The Effect of Alcoholic Extract of *Cyperus Rotundus* on Acute Inflammatory in Male Mice

Bibak B, Shakeri F

(The 4th International Congress and the 25th Congress of Physiology and Pharmacology of Iran, 20-22 Oct 2021)

4. The effect of hydro-ethanolic extract of *Curcuma longa* rhizome and curcumin on serum oxidant, antioxidant biomarkers in rat model of asthma.

Farzaneh Shakeri, Mohammad Hossein Boskabady.

(8th international congress on pulmonary diseases, intensive care and tuberculosis, Tehran, Iran, 12-15 Oct 2017)

5. Anti-inflammatory and immunomodulatory effects of curcumin in ovalbumin-sensitized rat.

Farzaneh Shakeri, Mohammad Hossein Boskabady.

(23th Iranian Congress of Physiology and Pharmacology and 2nd International Congress of Physiology and Pharmacology, Chabahar, Iran, 15-18 Feb 2018)

6. Possible bronchodilatory effect of medicinal plants.

Farzaneh Shakeri, Mohammad Hossein Boskabady.

(3th International Congress of Immunology, Asthma and Allergy, The First Symposium of Food and Drug Allergy Mashhad, Iran, 3-6 May 2016)

7. Relaxant effect of curcumin on rat tracheal smooth muscle.

Naeima Eftekhari, **Farzaneh Shakeri**, Mohammad Hossein Boskabady.

(3th International Congress of Immunology, Asthma and Allergy, The First Symposium of Food and Drug Allergy Mashhad, Iran, 3-6 May 2016)

8. *Curcuma longa* induced relaxant effect on rat tracheal smooth muscle.

Bahman Emami, **Farzaneh Shakeri**, Mohammad Hossein Boskabady.

(First National Congress of medicinal, aromatic and spice, Gonbad Kavus University, 20 April, 2016)

9. Bronchodilatory effect of medicinal plants.

Farzaneh Shakeri, Mohammad Hossein Boskabady.

(22th Iranian Congress of Physiology and Pharmacology, 7-11 Sept 2015, Kashan University of Medical Sciences)

10. Relaxant effect of extracts, fractions and constituents of medicinal plants on tracheal smooth muscle and their comparative potency.

Mohammad Hossein Boskabady, **Farzaneh Shakeri**.

(22th Iranian Congress of Physiology and Pharmacology, 7-11 Sept 2015, Kashan University of Medical Sciences)

11. Effect of hydro-alcoholic extract of *Hydrastis canadensis* on acute and chronic pain in male rats.

Farzaneh Shakeri, Vahid Rostamian.

(22th Iranian Congress of Physiology and Pharmacology, 7-11 Sept 2015, Kashan University of Medical Sciences)

7. Relaxant Effect of *Satureja hortensis* on Guinea Pig Tracheal Chains and Its Possible Mechanism(s).

F.Shakeri, M.H. Boskabady, M. R. Aslani.

(21st Iranian Congress of Physiology and Pharmacology 23-27 August 2013, Tabriz, IRAN)

8. The Study of Effects of Hydro-Alcoholic Extract of *Varthemia Persica* on Preventing Formation of Kidney Stones Induced by Ethylene Glycol in Rats.

Farzaneh Shakeri, Vahid Rostamian.

(21st Iranian Congress of Physiology and Pharmacology 23-27 August 2013, Tabriz, IRAN)

9. The extract of *crocus sativus* and its constituent safranal, affect serum levels of endothelin and total protein in sensitized guinea-pigs.

Farzaneh Shakeri, Zahra Gholamnezhad, Hamed Koushyar, Goltaj Byrami, Mohammad Hossein Boskabady.

(The first International Congress of Complementary and Alternative Medicine, Oct 7-9, 2015)

10. The relation between some biochemical parameters by balancing pro oxidant Antioxidant in Rheumatoid Arthritis disease.

Shakeri F, Ghodrati Azadi H, Hamidi Alamdari H, Parizadeh MR, Sahebari M.

(11st international Congress of Immunology and Allergy, Tehran, Iran, April 26-29, 2012.
Published in Book of abstracts)

11. Anti-Clostridium Septicum Alpha Toxin Antibody Purification.

Rostamian V, Hemmati M, Haghjoo R, Saleh Moghadam M, **Shakeri F**.

(The First National Congress of Veterinary Laboratory Sciences, December 1-2, 2009, Tehran-Iran)

12. 16st Iranian Veterinary congress, Tehran, Iran, April 27-29, 2010.

The First National Congress of Veterinary Laboratory Sciences. Tehran, Iran, December 1-2, 2009

Education Courses

- 1- Workshop of Research Information System, North Khorasan University of Medical Sciences, School of Medicine, October, 2017.
- 2- Workshop of Scientometrics, North Khorasan University of Medical Sciences, School of Medicine, September, 2017.
- 3- Workshop of Search for electronic resources, North Khorasan University of Medical Sciences, School of Medicine, October, 2017.
- 4- Workshop of Process writing, North Khorasan University of Medical Sciences, School of Medicine, October, 2017.
- 5- Workshop of Mouse Model of Middle Cerebral Artery Occlusion, Mashhad University of Medical Sciences, School of Medicine, October, 2017.
- 6- Workshop of Web of science, Mashhad University of Medical Sciences, School of Medicine, October, 2015.
- 7- Workshop of The Pathway to Publication, Mashhad University of Medical Sciences, School of Nursing and Midwifery, November, 2014.
- 8- Workshop on working with laboratory animals, Mashhad University of Medical Sciences, Faculty of Medicine, October, 2015.
- 9- Workshop of End not, Mashhad University of Medical Sciences, School of Medicine, October, 2015.
- 10- Workshop for acquiring skills to send articles to ISI journals, Mashhad University of Medical Sciences, School of Medicine, October, 2015.
- 11- Workshop of EXCEL software, Mashhad University of Medical Sciences, School of Medicine, November, 2014.
- 12- Workshop of plagiarism and ways to prevent it, Mashhad University of Medical Sciences, Educational Center, Research & Therapy Imam Reza, November, 2014.

Technical skills

ELISA technique.

Oxidative stress technique in tissue, serum and cell soup.

Pro-oxidant-antioxidant balance review technique.

Tracheal response to ovalbumin to methacholine and ovalbumin technique.

Relaxant effects of medicinal plants and possible mechanism(s) technique.

Moderate and over trained heavy exercised technique.

The technique of asthma and COPD in laboratory animals.

The technique of examining lung function tests (Spirometry).

The technique of assaying behavioral tests including: Open field test, Elevated plus-maze, Passive avoidance learning, and Morris water navigation task.

The technique of modeling stroke in mice middle cerebral artery occlusion with the filament model.

Mastering the software, SPSS Graphpad Prism and Excel.

Mastering MS Office software including Word, Power Point, etc.

Mastering of reference of papers and thesis such as Reference Manager and Endnote.