

In the name of God



1. Personal information

- **Name and Family:** Fatemeh Amin
- **Mobile:** 09133912588
- **E-mail :** ft.amin@yahoo.com
- **H index=** 15

2. Education

- Isfahan, Iran. 2012 – 2014 (M.Sc. in Biology)
- Mashhad, Iran. 2015 (Ph.D. in physiology, Scholarship of Rafsanjan University of Medical Sciences)

3. Thesis title

M.Sc degree: Ascorbic Acid reduces the adverse effects of delayed administration of tissue plasminogen activator in a rat stroke model.

PhD Thesis: The effect of PPAR- γ agonist, *Zataria multiflora* boiss hydroalcoholic extract and carvacrol on lung toxicity induced by Paraquat inhalation

4. Educational Experiences

- Teaching Physiology to medical students in lab.
- Teaching Physiology to paramedical and master's students.
Rafsanjan University of Medical Sciences.

5. Published articles

1. Fatemipour M, Jahromi ZN, [Amin F](#), Zarandi ER, Fatemipour B, Vahedi SM, Marj AH. Efficacy of *Zataria multiflora* on Oral Bacterial and Periodontal Indices in Fixed Orthodontic Patients: A Double-Blind, Randomized, Controlled, Clinical Trial. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 2025 Sep 10. **IF:0.4**
2. Parvaz N, Mirhosseini M, Saadat S, [Amin F](#), Etemad L. Therapeutic effects of *Zataria multiflora* Boiss. extract-loaded chitosan nanoparticles against asthma in rats. Avicenna Journal of Phytomedicine. 2025 Sep 9. **IF:2.2**

3. [Amin F](#), Basirat H, Parvaz N, Khademalhosseini M, Hakimizadeh E, Fatemi I. Protective effects of myrtenol against paraquat-induced toxicity in rats. *BMC Pulmonary Medicine*. 2025 Jan 13;25(1):17. **IF:2.6**
4. Ahmadi Kamalabadi M, Ostadebrahimi H, Koosha F, Fatemidokht A, Menbari Oskuie I, [Amin F](#), Shiralizadeh Dezfuli A. Gd-GQDs as nanotheranostic platform for the treatment of HPV-positive oropharyngeal cancer. *Medical Oncology*. 2024 Jul 22;41(8):205. **IF:2.8**
5. [Amin F](#), Parvaz N, Askari N, Khademalhosseini M, Falahatipour SK, Fatemi I, Khajehasani F, Taghipour Z, Falahati-Pour SK. Hydrophilic extract of Pistacia vera pericarp protects against phenylhydrazine-induced hepatotoxicity and hemolytic anemia. *Avicenna Journal of Phytomedicine*. 2024 May;14(3):375. **IF:1.9**
6. Bagheri-Hosseiniabadi Z, Bahreyni A, Basirat H, Khalili P, Vakilian A, [Amin F](#). Occupational status and chronic respiratory diseases: a cross-sectional study based on the data of the Rafsanjan Cohort Study. *BMC Pulmonary Medicine*. 2024 Mar 23;24(1):151. **IF:2.6**
7. Beigoli S, [Amin F](#), Kazemi Rad H, Rezaee R, Boskabady MH. Occupational respiratory disorders in Iran: a review of prevalence and inducers. *Frontiers in Medicine*. 2024 Feb 8; 11:1310040. **IF:3.1**
8. Memarzia A, [Amin F](#), Mokhtari-Zaer A, Arab Z, Saadat S, Heydari M, Ghasemi Z, Naghdi F, Hosseini M, Boskabady MH. Systemic and lung inflammation and oxidative stress Associated with behavioral Changes Induced by Inhaled Paraquat are ameliorated by Carvacrol. *PPAR research*. 2024;2024(1):4049448. **IF:3.1**
9. Memarzia A, Ghasemi SZ, [Amin F](#), Gholamnezhad Z, Boskabady MH. Effects of Crocus sativus and its constituent, safranal, and pioglitazone, on systemic inflammation and oxidative stress induced by paraquat aerosol in rats. *Iranian Journal of Basic Medical Sciences*. 2024;27(5):640. **IF:2.1**
10. Falahati-pour SK, Khoradmehr A, Bagheri F, [Amin F](#), Parvaz N, Pourmasumi S. Antioxidant Properties of Pistacia vera against the Effects of Phenylhydrazine-Induced Hemolytic Anemia on Male Fertility in Mice. *Andrologia*. 2024;2024(1):5512743. **IF:2.1**
11. Parvaz N, [Amin F](#), Nadimi AE, Eslami H. Correlation between weather conditions and COVID-19 pandemic in the southeast area of Iran. *Spatial Information Research*. 2023 Dec;31(6):685-93. **IF:2**
12. Shakeri F, [Amin F](#), Marefati N, Roshan NM, Boskabady M, Boskabady MH. Effect of Allium cepa extract on total and differential WBC, TP level, oxidant and antioxidant biomarkers, and lung pathology in ovalbumin-sensitized rats. *Allergologia et Immunopathologia*. 2023 May 1;51(3):153-62. **IF:2.5**

13. Ghasemi SZ, Beigoli S, Memarzia A, Behrouz S, Gholamnezhad Z, Darroudi M, [Amin F](#), Boskabady MH. Paraquat-induced systemic inflammation and oxidative stress in rats improved by Curcuma longa ethanolic extract, curcumin and a PPAR agonist. *Toxicon*. 2023 May 1; 227:107090. **IF:2.6**
14. Maleki H, [Amin F](#), Parvaz N, Kahnooji M, Sayadi AR, Vazirinejad R. ABO Blood System Associated with Susceptibility, and Rhesus (Rh) Status Associated with Disease Severity in COVID-19 Patients, (Southeast of Iran). *Journal of Occupational Health and Epidemiology*. 2023 Apr 10;12(2):69-77.
15. Etemad L, Roohbakhsh A, Abbaspour A, Ghamsari AA, [Amin F](#), Moshiri M. The effect of sodium benzoate, L-carnitine, and phenylacetate on valproate-induced hyperammonemia in Male Wistar rats. *International journal of physiology, pathophysiology and pharmacology*. 2022 Dec 15;14(6):324.
16. Shahabadi N, Moshiri M, Roohbakhsh A, Imenshahidi M, Hashemi M, [Amin F](#), Yazdian-Robati R, Salmasi Z, Etemad L. A dose-related positive effect of inhaled simvastatin-loaded PLGA nanoparticles on paraquat-induced pulmonary fibrosis in rats. *Basic & Clinical Pharmacology & Toxicology*. 2022 Oct;131(4):251-61. **IF:3.1**
17. Saadat S, Beigoli S, Khazdair MR, [Amin F](#), Boskabady MH. Experimental and clinical studies on the effects of natural products on noxious agents-induced lung disorders, a review. *Frontiers in Nutrition*. 2022 May 18;9:867914. **IF:4.8**
18. [Amin F](#), Ostadebrahimi H, Kamiab Z, Bazmandegan G, Saadat S, Shakiba E. Correlation between health literacy and self-care behaviors in patients with COVID-19. 2022
19. [Amin F](#), Fathi F, Reiner Ž, Banach M, Sahebkar A. The role of statins in lung cancer. *Archives of Medical Science: AMS*. 2021 Mar 18;18(1):141. **IF:3.8**
20. Parvaz N, [Amin F](#), Askari N, Khademalhosseini M, Khanamani Falahati-pour S, Khanamani FP. The protective effect of Pistacia vera pericarp on kidney function in rats with hemolytic anemia. *Research journal of pharmacognosy*. 2022 Jan 1;9(1):17-28. **IF:0.3**
21. Heydari M, Mokhtari-Zaer A, [Amin F](#), Memarzia A, Saadat S, Hosseini M, Boskabady MH. The effect of Zataria multiflora hydroalcoholic extract on memory and lung changes induced by rats that inhaled paraquat. *Nutritional Neuroscience*. 2021 Sep 2;24(9):674-87. **IF:4.0**
22. [Amin F](#), Roohbakhsh A, Memarzia A, Kazerani HR, Boskabady MH. Immediate and late systemic and lung effects of inhaled paraquat in rats. *Journal of Hazardous Materials*. 2021 Aug 5; 415:125633. **IF:14.2**

23. Roohbakhsh A, Moshiri M, Kakhki AS, Iranshahy M, [Amin F](#), Etemad L. Thymoquinone abrogates methamphetamine-induced striatal neurotoxicity and hyperlocomotor activity in mice. *Research in Pharmaceutical Sciences*. 2021 Aug 1;16(4):391-9. **IF:0.5**
24. Hakimizadeh E, Moghadam-Ahmadi A, Shamsizadeh A, Ehsani V, [Amin F](#), Allahtavakoli M. The effects of pistachio hydroalcoholic extract on stroke in permanent middle cerebral artery occlusion in ovariectomized female rats. *Pistachio and Health Journal*. 2021 Jun 1;4(2):52-64.
25. Kiani B, Hashemi [Amin F](#), Bagheri N, Bergquist R, Mohammadi AA, Yousefi M, Faraji H, Roshandel G, Beirami S, Rahimzadeh H, Hoseini B. Association between heavy metals and colon cancer: an ecological study based on geographical information systems in North-Eastern Iran. *BMC cancer*. 2021 Apr 15;21(1):414. **IF:4.6**
26. Boskabady MH, Memarzia A, [Amin F](#), Roohbakhsh A, Shakeri F. Zataria multiflora and pioglitazone affect systemic inflammation and oxidative stress induced by inhaled paraquat in rats. 2021
27. Kazemi Rad H, Memarzia A, [Amin F](#), Boskabady MH. Relaxant effect of urguinea maritima on tracheal smooth muscle mediated by the effect on beta-2 adrenergic, muscarinic receptors and calcium and potassium channels. *Evidence-Based Complementary and Alternative Medicine*. 2021;2021(1):6637990. **IF:2.6**
28. [Amin F](#), Yousefvand S, Jamialahmadi T, Johnston TP, Sahebkar A. Protective effects of curcumin on pulmonary arterial hypertension. In *Natural Products and Human Diseases: Pharmacology, Molecular Targets, and Therapeutic Benefits* 2022 Jan 3 (pp. 213-221). Cham: Springer International Publishing.
29. Boskabady MH, [Amin F](#), Shakeri F. The effect of Curcuma longa on inflammatory mediators and immunological, oxidant, and antioxidant biomarkers in asthmatic rats. *Evidence-Based Complementary and Alternative Medicine*. 2021;2021(1):4234326. **IF:2.6**
30. [Amin F](#), Memarzia A, Roohbakhsh A, Shakeri F, Boskabady MH. Zataria multiflora and pioglitazone affect systemic inflammation and oxidative stress induced by inhaled paraquat in rats. *Mediators of inflammation*. 2021;2021(1):5575059. **IF:4.5**
31. Kazemi Rad H, Memarzia A, [Amin F](#), Boskabady MH. Relaxant effect of urguinea maritima on tracheal smooth muscle mediated by the effect on beta-2 adrenergic, muscarinic receptors and calcium and potassium channels. *Evidence-Based Complementary and Alternative Medicine*. 2021;2021(1):6637990.
32. [Amin F](#), Roohbakhsh A, Memarzia A, Kazerani HR, Boskabady MH. Paraquat-induced systemic inflammation and increased oxidative markers in rats improved by Zataria multiflora extract and carvacrol. *Avicenna journal of phytomedicine*. 2020 Sep;10(5):513.

33. [Amin F](#), Memarzia A, Kazerani HR, Boskabady MH. Carvacrol and Zataria multiflora influenced the PPAR γ agonist effects on systemic inflammation and oxidative stress induced by inhaled paraquat in rat. Iranian Journal of Basic Medical Sciences. 2020 Jul;23(7):930. **IF:1.8**
34. Memarzia A, [Amin F](#), Saadat S, Jalali M, Ghasemi Z, Boskabady MH. The contribution of beta-2 adrenergic, muscarinic and histamine (H1) receptors, calcium and potassium channels and cyclooxygenase pathway in the relaxant effect of Allium cepa L. on the tracheal smooth muscle. Journal of ethnopharmacology. 2019 Sep 15; 241:112012. **IF:3.4**
35. [Amin F](#), Jahani MM, Ghaedi H, Alipoor B, Fatemi A, Tajik M, Sharifi Z, Golmohammadi T, Askari M, Azarnejad A, Alipoor S. Genetic variants of cytochrome b-245, alpha polypeptide gene and premature acute myocardial infarction risk in an Iranian population. Journal of Medical Biochemistry. 2015 Sep 19;34(4):402. **IF:1.0**
36. Allahtavakoli M, [Amin F](#), Esmaceli-Nadimi A, Shamsizadeh A, Kazemi-Arababadi M, Kennedy D. Ascorbic acid reduces the adverse effects of delayed administration of tissue plasminogen activator in a rat stroke model. Basic & clinical pharmacology & toxicology. 2015 Nov;117(5):335-9.
37. Alimohamadi R, Naderi S, Imani E, Shamsizadeh A, Mobini M, Rezazadeh H, [Amin F](#), Allahtavakoli M. The effects of the ethanolic extract of vitex agnus castus on stroke outcomes in ovariectomized mice. Journal of Babol University of Medical Sciences. 2015 Mar 10;17(3):20-7.
38. Rezazadeh H, Kahnuee MH, Roohbakhsh A, Shamsizadeh A, Rahmani MR, Bidaki R, [Amin F](#), Kamali B, Allahtavakoli M. Neuroprotective consequences of postconditioning on embolic model of cerebral ischemia in rat. Iranian journal of basic medical sciences. 2013 Feb;16(2):144.
39. Rafsanjani AT, Haghparast A, Shamsizadeh A, Rohani SA, Roohbakhsh A, Hakimizadeh E, [Amin F](#), Allahtavakoli M. The effect of nicotine administration on physical and psychological signs of withdrawal syndrome induced by single or frequent doses of morphine in rats. J. Basic Clin. Neurosci. 2012 May 1;3(3):49-57.
40. Memarzia A, [Amin F](#), Beigoli S, Behrouz S, Gholamnezhad Z, El-Seedi H, Boskabady MH. Insight into the mechanism underlying toxic effects of paraquat on respiratory system: a systematic review of the experimental and clinical evidence. Frontiers in Public Health.;12:1382756

6. Articles in Persian

1. Rezaei nejad S, Bakhshi aliabad H, Basirat H, Maleki H, [Amin F](#), Karimi M. correlation between serum Vitamin D3 Level and Disease Severity in the Patients with Chronic Obstructive Pulmonary Disease (COPD). 2024
2. Shakiba E, Sadeghi M, [Amin F](#), Abolhadi F, Noorbakhsh SA. Internal Evaluation of the Departments of the Dental School at Rafsanjan University of Medical Sciences Using the Accreditation Model. Development Strategies in Medical Education. 2023 Oct 10;10(3):228-37.
3. Sedigheh A, Massoud M, Ali R, Ali S, [Fatemeh A](#), Mohammad A. < The> effect of a single dose of morphine on muscle fatigue indices in male rats.2016
4. [Amin F](#), Shamsizadeh A, Ayoobi F, Rezazadeh H, Hakimizadeh E, Mashayekhimazar J, Iranmanesh F, Allahtavakili M. Effect of hydro-alcoholic extract of Teucrium polium, Descurainia sophia and Artemisia aucheri on naloxone-precipitated morphine withdrawal in male rat. Journal of Shahrekord University of Medical Sciences. 2015 Aug 1;17(3).
5. [Amin F](#), Taghavi-Rafsanjani A, Shamsizadeh A, Moosaei A, Rezayi S, Hasani A, Naderi S, Esmaeili S, Allahtavakoli M. Efficacy of ascorbic acid in reduction of stroke complications in a permanent model of middle cerebral artery occlusion in male rats. Journal of Kerman University of Medical Sciences. 2015 Dec 1;22(6):457-69.
6. Salem ZI, Fathollahi MS, Rahn timer AM, [Amin FA](#), Iranmanesh FE. Determination of serum vitamin D and its association with abdominal obesity, hypertension and impaired fasting glucose among employed women. 2015
7. Ehsan H, Amir Majd Z, Mashayekhi Mazari J, Sharifian Pa Ghalee M, Ayoobi F, [Amin F](#), Sharif Pa Ghalee S, Hakim Zadeh E, Allah-Tavakoli M. Comparison of the Effects of Hydro-alcoholic Feru-lago angulata Extract and Phenytoin Cream on Skin Wounds. Tabari Biomedical Student Research Journal. 2015 Jul 10;1(1):10-8.
8. Naderi S, Ali Mohammadi R, Shamsi Zadeh A, Mobini M, [Amin F](#), Allahtavakoli M. The effect of exercise preconditioning on stroke outcome in an experimental mice model. The Neuroscience Journal of Shefaye Khatam. 2015 Sep 10;3(3):45-53.
9. Hakimizadeh E, Askary A, Shamsizadeh A, Rahmani MR, Vazirinejad R, Ayoobi F, [Amin F](#), REZAZADEH H, Kamali B, Allahtavakoli M. EFFECT OF HYDRO-ALCOHOLIC EXTRACT OF ARTEMISIA AUCHERI ON CASTOR OILINDUCED DIARRHEA IN MALE RAT. 2013
10. Hakimizadeh E, Baniyasi Pour H, Rezazadeh H, Ansari Jaber i A, Mashayekhi N, Ismaili M, Nejad Hassan R, [Amin F](#), Shamsizadeh A, Ayoobi F, Zare L. Survey on the Protective Effect

- of Total Hydro-alcoholic Extract of Artemisia Aucheri on Mercuric Chloride-induced Nephrotoxicity in Male Mice. Iranian Journal of Forensic Medicine. 2013 Sep 10;19(2):251-6.
11. Allahtavakoli M, Roohbakhsh A, Rahmani MR, Bakhshi H, [Amin F](#), Shamsizadeh A. Internal evaluation of physiology department of Rafsanjan University of Medical Sciences. Journal of Rafsanjan University of Medical Sciences. 2013 May 10;12(3):233-42.
 12. Honari N, Pourabolli I, Shamsizadeh A, [Amin F](#), Allahtavakoli M. Effect of Vitex Agnus-Castus Extract on Learning and Memory in Ovariectomized Rats. Journal of Mazandaran University of Medical Sciences. 2012 Oct 10;22(93):2-10.
 13. Allahtavakoli M, ARAB BF, BANIASSAD S, [Amin F](#). Effect of immobilization stress on scratching behavior in male rat. 2011
 14. Allahtavakoli M, Rezaee H, Kamrany N, Shamsizadeh A, Moloudi R, [Amin F](#), Khatami F, Rezvani ME, Pourshanazari AA, Rohbakhsh A. Effect of ascorbic acid on infarct volume and neurological deficits after the embolic model of stroke in rat. Journal of Rafsanjan University of Medical Sciences. 2009;8(1):49-58.

7. Congress

1. 24th Iranian & 3rd International Congress of Physiology and Pharmacology (2019). Shahed University. Poster presentation.
2. International Congress of Airway & International Lung Disease (2018). Mashhad University of Medical Sciences. Poster presentation.
3. 23th Iranian & 2nd International Congress of Physiology and Pharmacology (2018). Chabahar University of Medical Sciences. Poster presentation.
4. 22th Iranian & 1st International Congress of Physiology and Pharmacology (2015). Kashan University of Medical Sciences. Poster presentation.
5. 21th International Iranian Congress of Physiology and Pharmacology (2013). Tabriz University of Medical Sciences. Poster presentation.
6. 11th Iranian Pharmaceutical Sciences Conference. Kerman University of Medical Sciences, Iran (2008). Poster presentation.
7. 18th Iranian Congress of Physiology and Pharmacology University of Mashhad (2007). Poster presentation
8. 17th Iranian Congress of Physiology and Pharmacology University of Kerman (2005). Poster presentation.

8. Workshops

1. Intellectual Property and Patent, Mashhad Ferdowsi University, 2017
2. Real-time Education, Mashhad University of Medical Sciences, Mashhad, 2017
3. Western blotting Education, Mashhad University of Medical Sciences, Mashhad, 2017
4. Primer Design Education, Mashhad University of Medical Sciences, Mashhad, 2017
5. PCR method Education, Mashhad University of Medical Sciences, Mashhad, 2017
6. Cultured of neutrophils and lymphocytes, Mashhad Ferdowsi University, 2016
7. Practical training period for molecular techniques and genetic engineering, Shahid Beheshti University of Medical Sciences, Tehran, 2016.
8. SPSS workshop, Rafsanjan University of Medical Sciences, Rafsanjan, 2013
9. Methods of research, Rafsanjan University of Medical Sciences, Rafsanjan, 2013
10. Article writing, Rafsanjan University of Medical Sciences, Rafsanjan, 2013
11. EndNote, Rafsanjan University of Medical Sciences, Rafsanjan, 2012
12. ICDL (1 and 2), Kerman, 2012

9. Research skills

1. Induction of cerebral ischemia (Permanent)
2. Behavioral tests including, Sticky test, Ledge beam walking and hanging
3. Wound healing
4. Plant extraction
5. Tail flick as a test for pain measurement
6. Test of learning and spatial memory (Maurice water maze system)
7. Orchiectomy, ovariectomy, total and differential sperm count, determination of sperm motility and morphology and Staining with eosin nigrozone.
8. Total and differential WBC count in blood and lung lavage
9. Measurement of smooth muscle function in the isolated tissue bath-applications to pharmacology research
10. Application of plethysmography to small animals
11. Creation an allergy (asthma) by nebulizer in the animal model
12. The experimental animal models of asthma and COPD
13. Taking blood sample from the heart
14. Making of feeding tube
15. Measurement of oxidants and antioxidants Manually

10. Executive and Research Activities

- Head of the Faculty Affairs Center
- Researcher at the Physiology and Pharmacology Research Center
- Researcher at the Immunology and Infectious Diseases Research Center
- Researcher at the Non-Communicable Diseases Research Center
- Researcher at the Molecular Medicine Research Center

11. Awards & Honors

- Holder of an H-index greater than 10. 2024. (Grant)
- Recipient of the Top Faculty Innovator Award of the University. 2023. (Grant)
- Recipient of the Outstanding Researcher Award. 2021. (Grant)