


# CV



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- **Education:**
- Professional Doctorate of Pharmacy (Pharm.D.), [School of Pharmacy, Kermanshah University of Medical Sciences](#), Iran, 2010.
- **Ph.D. student of Pharmacognosy, [School of Pharmacy, Kermanshah University of Medical Sciences](#), Iran, 2018-2023.**
- Employment:
- Researcher, Medical Biology Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran, 2010- 2013.
- Responsible personnel of Albourz Distributing Company, 2013-2014
- **Head of quality control, Bakhtar Bioshimi Pharmaceutical Company, 2014-2016**
- **R&D and QC consultant of Bakhtar Biochemi pharmaceutical company, 2022-present**
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- **AWARDS:**

- 1- 1<sup>st</sup> best Student Researcher, Kermanshah University of Medical Sciences, 2008
- 2- 1<sup>st</sup> best Pharm.D student in School of Pharmacy, Kermanshah University of Medical Sciences, 2009
- 3- 1<sup>st</sup> best Student Researcher, Kermanshah University of Medical Sciences, 2010
- 4- 3<sup>rd</sup> best selected team in Razi Festival, 2011
- 5- 1<sup>st</sup> best Student Researcher, Kermanshah University of Medical Sciences, 2012
- 6- 1<sup>st</sup> best poster presentation in Pharmacy Updates Congress, 2019
- 7- Selected for the Top Student Talent Award of the National Elites Foundation, 2020
- 8- 1<sup>st</sup> Best pharmacognosy Ph.D. Student in the School of Pharmacy, Kermanshah University of Medical Sciences (Grade point average 17.76), 2020
- 9- 1<sup>st</sup> best Ph.D. Student Researcher, Kermanshah University of Medical Sciences, 2021
- 10- The top student researcher of the Health and Medical Education ministry, 2021
- 11- 1st best Ph.D. Student Researcher, Kermanshah University of Medical Sciences, 2022

**Skills:**

- ✓ **Formulation & Development:**

- Expert in Formulation of synthetic pharmaceuticals, Natural Products, Dietary Supplements, and Cosmeceuticals.
- Product Development & Scale-up from Laboratory to Industrial Scale.
- Knowledge of ICH Guidelines, Pharmacopoeial Standards (USP, EP), and Regulatory Requirements.

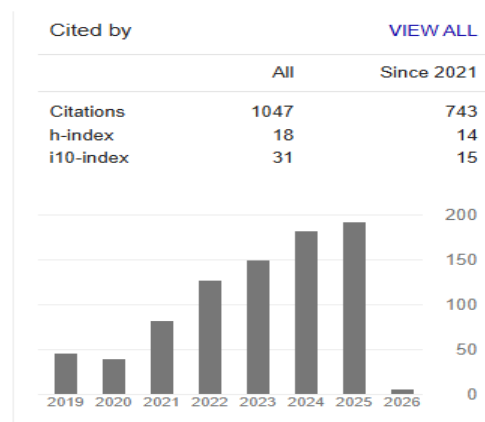
- ✓ **Regulatory & Quality Systems:**

- Good Manufacturing Practice (GMP) & Good Laboratory Practice (GLP)
- Quality Control (QC) & Quality Assurance (QA)
- Method Validation & Stability Studies

- ✓ **Technical Proficiency:**

- Analytical Instrumentation (Column Chromatography, HPLC, GC, LC-MS/MS, TLC, NMR, UV-Vis)
- Pharmaceutical Technology & Process Optimization
- Phytochemistry Studies

## Publication: 46 paper



1. **Majnooni MB**, Ghanadian M, Mansouri K, Bahrami GR, Mojarrab M. Unveiling the Bioactive Potential of *Allium colchicifolium* Boiss Bulb Flavonoids: Anti-cancer Activities, and Computational Exploration of Anti-angiogenic Mechanisms. *Iranian Journal of Pharmaceutical Research: IJPR*. 2025;24(1):e163152.
2. Hesari, M., Shackebaei, D., Mohammadi, P., **Majnooni MB**, Fatemeh Yarmohammadi. Diosmin-Hesperidin Combination Improves Post-Ischemic Cardiac Recovery Via AKT/mTORC1 Modulation in Doxorubicin-Treated Rats. *Cell Biochem Biophys* (2026). <https://doi.org/10.1007/s12013-026-02000-8>
3. Fakhri S, Gravandi MM, **Majnooni MB**, Farzaei MH, Abbaszadeh F, Rashidi K, Echeverria J. Ferula ammoniacum gum aqueous extract employs anti-inflammatory and antioxidant mechanisms to combat aluminum chloride-induced Alzheimer's disease in rats: Possible involvement of opioid pathways. *Frontiers in Pharmacology*. 2026; 16:1708643.
4. Etebari M, Salehi M, **Majnooni M B**, Ghanadian M. Genotoxic Effects of *Dracocephalum Lindbergii* Essential Oil Assessed by Comet Assay: Dose-Dependent Increase in DNA Damage Markers. *J Rep Pharm Sci*. 2025;13(1):e165509.
5. Lotfaliani M, Ayatollahi SA, Kobarfard F, **Majnooni MB**, Mirzaei A, Ghanadian M, et al. Flavonoids Isolated From *Delphinium semibarbatum* Flowering Aerial Parts With Their Antibacterial, Antibiofilm, and Antiswarming Activity Against *Proteus mirabilis* and *Staphylococcus aureus*. *Journal of Food Biochemistry*. 2024;2024(1):9994944.
6. Iranpanah A, **Majnooni MB**, Biganeh H, Amirian R, Rastegari-Pouyani M, Filosa R, et al. Exploiting new strategies in combating head and neck carcinoma: A comprehensive review on phytochemical approaches passing through PI3K/Akt/mTOR signaling pathway. *Phytotherapy Research*. 2024;38(7):3736-62.
7. Iranpanah A, Fakhri S, Bahrami G, **Majnooni MB**, Gravandi MM, Taghavi S, et al. Protective effect of a hydromethanolic extract from *Fraxinus excelsior* L. bark against a rat model of aluminum chloride-induced Alzheimer's disease: Relevance to its anti-inflammatory and antioxidant effects. *Journal of Ethnopharmacology*. 2024;323:117708.
8. **Majnooni MB**, Ghanadian SM, Mojarrab M, Bahrami G, Mansouri K, Mirzaei A, et al. Antibacterial, antibiofilm, antiswarming, and antioxidant activities of flavonoids isolated from *Allium colchicifolium* leaves. *Journal of Food Biochemistry*. 2023;2023(1):5521661.

9. **Majnooni MB**, Fakhri S, Ghanadian SM, Bahrami G, Mansouri K, Iranpanah A, et al. Inhibiting angiogenesis by anti-cancer saponins: from phytochemistry to cellular signaling pathways. *Metabolites*. 2023;13(3):323.
10. **Majnooni MB**, Mohammadi S, Bahrami G, Mohammadi-Noori E, Farzaei MH. Chemical Composition, Total Phenolic Content, and Anti-Ulcerative Colitis Effects of Extract and Essential Oil of *Cupressus arizonica* Greene Fruits. *Traditional and Integrative Medicine*. 2022.
11. Kazemi F, Mojarrab M, Bahrami G, Miraghaei SS, Hadidi S, **Majnooni MB**. The Alkaloids of *Isatis indigotica* as Promising Candidates against COVID-19: A Molecular Docking Simulation for Drug Development. *Journal of Reports in Pharmaceutical Sciences*. 2022;11(2):165-81.
12. Fakhri S, Jafarian S, **Majnooni MB**, Farzaei MH, Mohammadi-Noori E, Khan H. Anti-nociceptive and anti-inflammatory activities of the essential oil isolated from *Cupressus arizonica* Greene fruits. *The Korean journal of pain*. 2022;35(1):33-42.
13. Zobeiri M, Parvizi F, Kalhori MR, **Majnooni MB**, Farzaei MH, Abdollahi M. Targeting miRNA by natural products: a novel therapeutic approach for nonalcoholic fatty liver. *Evidence-based Complementary and Alternative Medicine*. 2021;2021(1):6641031.
14. **Majnooni MB**, Miraghaee S-S, Keshavarzi S, Mohammadi B, Sajadimajd S, Hatami R, et al. Rapid and sensitive UHPLC-DAD method for simultaneous determination of sofosbuvir and ledipasvir in human serum. *Journal of pharmaceutical and biomedical analysis*. 2021;195:113860.
15. **Majnooni MB**, Fakhri S, Bahrami G, Naseri M, Farzaei MH, Echeverría J. Alkaloids as potential phytochemicals against SARS-CoV-2: Approaches to the associated pivotal mechanisms. *Evidence-Based Complementary and Alternative Medicine*. 2021;2021(1):6632623.
16. **Majnooni MB**, Ataee M, Bahrami G, Heydarpour F, Aneva IY, Farzaei MH, et al. The effects of co-administration of artichoke leaf extract supplementation with metformin and vitamin E in patients with nonalcoholic fatty liver disease: A randomized clinical trial. *Phytotherapy Research*. 2021;35(11):6324-34.
17. Fakhri S, Piri S, **Majnooni MB**, Farzaei MH, Echeverria J. Targeting neurological manifestations of coronaviruses by candidate phytochemicals: a mechanistic approach. *Frontiers in Pharmacology*. 2021;11:621099.
18. Fakhri S, Patra JK, Das SK, Das G, **Majnooni MB**, Farzaei MH. Ginger and heart health: from mechanisms to therapeutics. *Current molecular pharmacology*. 2021;14(6):943-59.
19. Fakhri S, Iranpanah A, Gravandi MM, Moradi SZ, Ranjbari M, **Majnooni MB**, et al. Natural products attenuate PI3K/Akt/mTOR signaling pathway: A promising strategy in regulating neurodegeneration. *Phytomedicine*. 2021;91:153664.
20. Ahmadi-Jouybari T, Aghaei A, Ataee M, Navabi J, Anvari B, Jouybari HA, et al. Synergistic effect of cumin (*Cuminum cyminum* L.) decoction alongside with three-drug and four-drug treatment protocols on helicobacter pylori eradication. *Journal of Reports in Pharmaceutical Sciences*. 2021;10(1):66-70.
21. **Majnooni MB**, Fakhri S, Shokoohinia Y, Mojarrab M, Kazemi-Afrakoti S, Farzaei MH. Isofraxidin: Synthesis, Biosynthesis, Isolation, Pharmacokinetic and Pharmacological Properties. *Molecules*. 2020;25:2040.
22. **Majnooni MB**, Fakhri S, Shokoohinia Y, Kiyani N, Stage K, Mohammadi P, et al. Phytochemicals: potential therapeutic interventions against coronavirus-associated lung injury. *Frontiers in Pharmacology*. 2020;11:588467.
23. **Majnooni MB**, Fakhri S, Smeriglio A, Trombetta D, Croley CR, Bhattacharyya P, et al. Antiangiogenic effects of coumarins against cancer: From chemistry to medicine. *Molecules*. 2019;24(23):4278.

24. **Majnooni MB**, Mohammadi B, Jalili R, Babaei A, Bahrami G. Determination of fatty acids by high-performance liquid chromatography and fluorescence detection using precolumn derivatization with 9-fluorenylmethyl chloroformate. *Journal of Liquid Chromatography & Related Technologies*. 2016;39(19-20):877-81.
25. Shahlai M, Bahrami G, Abdolmaleki S, Sadrjavadi K, **Majnooni MB**. Application of unfolded principal component analysis–radial basis function neural network for determination of celecoxib in human serum by three-dimensional excitation–emission matrix fluorescence spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 2015;138:675-83.
26. Sadrjavadi K, Shahlai M, Bahrami G, **Majnooni MB**, Mohebbi M. Comparison of correlation ranking and eigenvalue ranking unfolded principal component regression for direct determination of naproxen in human serum using excitation–emission matrix fluorescence spectroscopy. *Journal of the Iranian Chemical Society*. 2015;12(6):967-77.
27. **Majnooni MB**, Jalili R, Mohammadi B, Miraghaee SS, Fakhri S, Bahrami G. Development and validation of a new method for determination of topiramate in bulk and pharmaceutical formulation using high performance liquid chromatography-UV detection after pre-column derivatization. *Journal of Reports in Pharmaceutical Sciences*. 2014;3(2):179-83.
28. Arkan E, Shamsipur M, Saber R, Karimi Z, **Majnooni M**. A novel electrochemical sensor based on a silver nanoparticle modified carbon ionic liquid electrode for selective and sensitive determination of levetiracetam in pharmaceutical tablets and blood plasma samples. *Analytical Methods*. 2014;6(7):2197-204.
29. **Majnooni M**, Mohammadi-Farani A, Gholivand M, Nikbakht M, Bahrami G. Chemical composition and anxiolytic evaluation of *Achillea wilhelmsii* C. Koch essential oil in rat. *Research in Pharmaceutical Sciences*. 2013;8(4):269.
30. hesari m, shackebaei d, asadmobini a, **majnooni mb**. protective effect of paracetamole on doxorubicin induced cardiotoxicity in isolated rat heart. 2013.
31. Ahmadi-Jouibari T, Nikbakht MR, Mansouri K, **Majnooni MB**. Cytotoxic effects of the essential oil from *Achillea wilhelmsii* C. Koch. *Journal of Reports in Pharmaceutical Sciences*. 2013;2(2):98-102.
32. Adibi H, **Majnooni MB**, Mostafaie A, Mansouri K, Mohammadi M. Synthesis, and in-vitro cytotoxicity studies of a series of triazene derivatives on human cancer cell lines. *Iranian Journal of Pharmaceutical Research: IJPR*. 2013;12(4):695.
33. Abolghazi M, Abiri R, **Majnooni MB**, Fallahi B, Babanejad M. Antibacterial effect of six plant extracts on some pathogenic bacteria. *Journal of Clinical Research in Paramedical Sciences*. 2013;2(3).
34. Mohammadi B, **Majnooni MB**, Khatabi PM, Jalili R, Bahrami G. 9-Fluorenylmethyl chloroformate as a fluorescence-labeling reagent for derivatization of carboxylic acid moiety of sodium valproate using liquid chromatography/tandem mass spectrometry for binding characterization: A human pharmacokinetic study. *Journal of Chromatography B*. 2012;880:12-8.
35. Mohammadi B, **Majnooni MB**, Afanzade N-s, Jalili R, Bahrami G. Simple and rapid ultra high performance liquid chromatographic (UHPLC) method for the determination of levetiracetam in human serum: application to a bioequivalence study. *African Journal of Pharmacy and Pharmacology*. 2012;6(27):2017-22.
36. **Majnooni MB**, Mansouri K, Gholivand M-B, Mostafaie A, Mohammadi-Motlagh H-R, Afanzade N-S, et al. Chemical composition, cytotoxicity and antioxidant activities of the essential oil from the leaves of *Citrus aurantium* L. *African journal of biotechnology*. 2012;11(2):498-503.

37. **Majnooni MB**, Gholivand MB, Khodadadian M, Afanzade N-s, Bahrami G. Electroreduction of tacrolimus as immunosuppressant agent at hanging mercury drop electrode: application to determination in pharmaceutical formulation. *Journal of Reports in Pharmaceutical Sciences*. 2012;1(1):41-8.
38. **Majnooni M**, Mohammadi B, Jalili R, Bahrami G. Rapid and sensitive high performance liquid chromatographic determination of zonisamide in human serum application to a pharmacokinetic study. *Indian Journal of Pharmaceutical Sciences*. 2012;74(4):36
39. **Majnooni M**, Abiri R, Afanzade N, Malek Khatabi P. Study of antibacterial effects of hydro-alcoholic extract of 8 medicinal herbs against vancomycin resistant staphylococcus aureus. *Journal of Medicinal Plants*. 2012;11(41):103-10.
40. Adibi H, Abiri R, Mallakpour S, Zolfigol MA, **Majnooni MB**. Evaluation of in vitro antimicrobial and antioxidant activities of 4-substituted-1, 2, 4-triazolidine-3, 5-dione derivatives. *Journal of Reports in Pharmaceutical Sciences*. 2012;1(2):87-93.
41. Adibi H, Rashidi A, Khodaei MM, Alizadeh A, **Majnooni MB**, Pakravan N, et al. Catecholthioether derivatives: preliminary study of in-vitro antimicrobial and antioxidant activities. *Chemical and Pharmaceutical Bulletin*. 2011;59(9):1149-52.
42. Shackebaei D, Godini A, Abolghazi M, **Majnooni MB**, Hesari M. Protection of ischemic and reperfused rat heart by aqueous extract of *Urtica dioica*. *International Cardiovascular Research Journal*. 2010;4(3).
43. Gholivand MB, Khodadadian M, **Majnooni MB**, Bahrami G. Electroreduction of zonisamide at hanging mercury drop electrode and its determination in pharmaceutical formulations and spiked human serum samples. *Analytical letters*. 2010;43(2):269-79.
44. Bahrami G, Mohammadi B, Khatabi PM, Farzaei MH, **Majnooni MB**, Bahoosh SR. Application of one-step liquid chromatography–electrospray tandem MS/MS and collision-induced dissociation to quantification of ezetimibe and identification of its glucuronated metabolite in human serum: A pharmacokinetic study. *Journal of Chromatography B*. 2010;878(28):2789-95.
45. Adibi H, Massah AR, **Majnooni MB**, Shahidi S, Afshar M, Abiri R, et al. Synthesis, characterization, and antimicrobial evaluation of sulfonamides containing n-acyl moieties catalyzed by bismuth (III) salts under both solvent and solvent-free conditions. *Synthetic Communications®*. 2010;40(18):2753-66.
46. Abiri R, **Majnooni M**, Malek Khatabi P, Adibi H. Study of antimicrobial effects of *Trigonella Foenum* hydro-alcoholic extract on different bacterial strains. *Medical Laboratory Journal*. 2009;3(1):0-
47. Massah AR, Adibi H, Khodarahmi R, Abiri R, **Majnooni MB**, Shahidi S, et al. Synthesis, in vitro antibacterial and carbonic anhydrase II inhibitory activities of N-acylsulfonamides using silica sulfuric acid as an efficient catalyst under both solvent-free and heterogeneous conditions. *Bioorganic & medicinal chemistry*. 2008;16(10):5465-72.

## **Projects:**

### **Implementation and collaboration of more than 40 research projects:**

[https://research.kums.ac.ir/webdocument/load.action?webdocument\\_code=8000&masterCode=3000664](https://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3000664)

### **Interests:**

## 1. Research & Professional Interests

- **Herbal Product Formulation & Standardization:** Expertise in the research, development, and quality control of herbal medicinal products, dietary supplements, and cosmeceuticals. Focused on ensuring safety, efficacy, and reproducibility through advanced standardization protocols.
- **Phytochemistry & Natural Products Research:** Dedicated to the isolation, identification, and analytical profiling of bioactive compounds from medicinal plants for drug discovery and product development.
- **Pharmaceutical Quality Systems & GMP Compliance:** Extensive experience in pharmaceutical manufacturing quality control, GMP auditing, and ensuring regulatory compliance for chemical, herbal, and supplementary products.

## 2. Professional Experience

- **GMP Inspector / Quality Assurance Specialist:** Conducted audits and inspections of pharmaceutical production facilities to ensure strict adherence to Good Manufacturing Practice (GMP) guidelines, covering areas from raw material control to finished product release.

## 3. Teaching & Research

- **Pharmaceutical Sciences Educator:** Experience in lecturing and mentoring in areas of phytochemistry, pharmacognosy, drug formulation, and quality control.

**Research & Development:** Leading research projects in phytopharmaceutical development, from plant extraction and standardization to analytical method validation