

## Curriculum Vitae

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### Dr. Fatemeh Nouri

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#### **Personal Information:**

Fatemeh Nouri, Pharm.D., Ph.D.

Assistant Professor at Department of Pharmaceutical Biotechnology

Hamadan University of Medical Sciences, Hamadan, Iran.

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#### **Educations:**

2012-2017: Ph. D, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy,

Shiraz University of Medical Sciences, Shiraz, Iran.

2006-2012: Pharm.D, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

#### **Academic Position:**

- Head of Pharmaceutical Biotechnology department, School of Pharmacy, Hamadan, Iran

- Assistant Professor, School of Pharmacy, Hamadan University of Medical Sciences, 2018-present.

#### **Work Experience**

-Optimization;

-Protein purification;

-Biotransformation techniques;

-Molecular biology techniques:

-PCR, cloning, proteomics, electrophoresis, SDS-PAGE, western blotting

-Gene delivery and expression, Drug delivery, Transfection

## **Research interests:**

- Recombinant Proteins
- In Silico Biotechnology
- Nanobiotechnology
- Bioprocess and Fermentation
- Microalgal Biotechnology
- Enzyme technology
- Bactofection
- Phage therapy
- Gene and Cell therapy

## **Publications:**

1. Seid-Mohammadi A, Asgari G, Rafiee M, Samadi MT, **Nouri F**, Pirsahab M, et al. Fate and inhibition of Bis (2-Ethylhexyl) phthalate in biophysical reactors for treating real landfill leachate. *Process Safety and Environmental Protection*. **2022**; 160:450-64.
2. Hazrati F, Saidijam M, Ahmadyousefi Y, **Nouri F**, Ghadimipour H, Moradi M, et al. A novel chimeric protein with enhanced cytotoxic effects on breast cancer in vitro and in vivo. *Proteins: Structure, Function, and Bioinformatics*. **2022**;90(4):936-46.
3. Seid-Mohammadi A, Asgari G, Rafiee M, Samadi MT, Nouri F, Pirsahab M, et al. The formation of aerobic granular sludge for the treatment of real landfill leachate using a granular sequencing batch reactor at a constant volume. *Environmental Quality Management*. 2022.
4. Goodarzi R, Yousefimashouf R, Sedighi I, Moradi A, **Nouri F**, Taheri M. Detection of Adhesion Encoding Genes, Antibacterial Susceptibility Test and Biofilm Formation of Uropathogenic Escherichia coli Isolated from Urinary Tract Infections in Children. *Journal of Advances in Medical and Biomedical Research*. 2022;30(138):47-53.
5. Bahrami A, Taheri M, Arabestani MR, Soleimani M, Mohammadi M, Golabchi F, **Nouri F**, et al. Harnessing the Natural Toxic Metabolites in COVID-19. *Evidence-Based Complementary and Alternative Medicine*. 2022;2022.
6. Masumi M, Noormohammadi F, Kianisaba F, **Nouri F**, Taheri M, Taherkhani A. Methicillin-Resistant Staphylococcus aureus: Docking-Based Virtual Screening and

- Molecular Dynamics Simulations to Identify Potential Penicillin-Binding Protein 2a Inhibitors from Natural Flavonoids. *International Journal of Microbiology*. 2022;2022.
7. Hosseini SM, Taheri M, **Nouri F**, Farmani A, Moez NM, Arabestani MR. Nano drug delivery in intracellular bacterial infection treatments. *Biomedicine & Pharmacotherapy*. 2022; 146:112609.
  8. **Nouri F**, Kamarehei F, Asghari B, Hazhirkamal M, Abdollahian AR, Taheri M. Prevalence and drug resistance patterns of bacteria isolated from wound and bloodstream nosocomial infections in Hamadan, West of Iran. *All Life*. 2022;15(1):174-82.
  9. Seid-Mohammadi A, Asgari G, Rafiee M, Samadi MT, **Nouri F**, Pirsaeheb M, et al. Bis (2-ethylhexyl) phthalate inhibition on aerobic flocculent and granular sludge in the treatment of landfill leachate: a comparative study. *Biomass Conversion and Biorefinery*. **2021**:1-13.
  10. Hazrati F, Saidijam M, Ahmadyousefi Y, **Nouri F**, Ghadimipour H, Moradi M, et al. A novel chimeric protein with enhanced cytotoxic effects on breast cancer in vitro and in vivo. *Proteins: Structure, Function, and Bioinformatics*. **2021**.
  11. Bahrami A, Arabestani MR, Taheri M, Farmany A, Zadeh FN, Hosseini SM, et al. Exploring the role of heavy metals and their derivatives on the pathophysiology of COVID-19. *Biological trace element research*. **2021**:1-12.
  12. Babri S, Habibi P, **Nouri F**, Khazaei M, Nayebi Rad S, Javani G. Protective effect of swimming and genistein on the expression of microRNA 132, insulin growth factor 1, and brain-derived neurotrophic factor genes, as well as spatial memory, in the hippocampus of diabetic ovariectomized rats. *Avicenna Journal of Neuro Psycho Physiology*. **2021**;8(4):178-85.
  13. Akbarzadeh A, Taheri M, Ebrahimi B, Alirezaei P, Doosti-Irani A, Soleimani M, **Nouri F**, et al. Evaluation of Lactocare® Synbiotic Administration on the Serum Electrolytes and Trace Elements Levels in Psoriasis Patients: a Randomized, Double-Blind, Placebo-Controlled Clinical Trial Study. *Biological Trace Element Research*. **2021**:1-8.
  14. Tavakoli M, Mahboobian MM, **Nouri F**, Mohammadi M. Studying the ophthalmic toxicity potential of developed Ketoconazole loaded nanoemulsion in situ gel formulation for ophthalmic administration. *Toxicology Mechanisms and Methods*. **2021**(just-accepted):1-27.
  15. Seid-mohammadi A, Asgari G, Rafiee M, Samadi MT, **Nouri F**, Pirsaeheb M, et al. Kinetic study of real landfill leachate treated by non-thermal plasma (NTP) and granular

- sequential batch reactors (GSBR). *Journal of Water Process Engineering*. **2021**;43:102245.
16. Khavari F, Saidijam M, Taheri M, **Nouri F**. Microalgae: therapeutic potentials and applications. *Molecular Biology Reports*. **2021**:1-9.
  17. Hajian S, Mazdeh M, **Nouri F**, Roshanaei G, Soleimani M. Association study of promoter polymorphisms of interferon alpha and beta receptor subunit 1 (IFNAR1) gene and therapeutic response to interferon-beta in patients with multiple sclerosis. *Molecular Biology Reports*. **2021**:1-7.
  18. Goodarzi R, Yousefimashouf R, Taheri M, **Nouri F**, Asghari B. Susceptibility to biocides and the prevalence of biocides resistance genes in clinical multidrug-resistant *Pseudomonas aeruginosa* isolates from Hamadan, Iran. *Molecular biology reports*. **2021**:1-7.
  19. Asghari B, Goodarzi R, Mohammadi M, **Nouri F**, Taheri M. Detection of mobile genetic elements in multidrug-resistant *Klebsiella pneumoniae* isolated from different infection sites in Hamadan, west of Iran. *BMC Research Notes*. **2021**; 14:330.
  20. Bahrami A, Taheri M, Habibi P, Soleimani M, **Nouri F**. *Avicenna Journal of Pharmaceutical Research*. **2020**.
  21. Zarei S, Tajbakhsh S, Taheri M, Mozdarani H, Jafarzadeh A, **Nouri F**, et al. A pre-exposure to RF-EMF can enhance the immune responses of mice following *Salmonella Typhimurium* and *Klebsiella pneumoniae* infections. *International Journal of Radiation Research*. **2020**;18(2):333-42.
  22. Taheri M, Bahrami A, Habibi P, **Nouri F**. A Review on the Serum Electrolytes and Trace Elements Role in the Pathophysiology of COVID-19. *Biological trace element research*. **2020**:1-7.
  23. Seid-Mohammadi A, **Nouri F**, Asadi F. Factors affecting aerobic granule sludge formation in leachate treatment—a systematic review. *Reviews on Environmental Health*. **2020**;35(4):481-92.
  24. **Nouri F**, Karami P, Zarei O, Kosari F, Alikhani MY, Zandkarimi E, et al. Prevalence of common nosocomial infections and evaluation of antibiotic resistance patterns in patients with secondary infections in Hamadan, Iran. *Infection and Drug Resistance*. **2020**;13:2365.

25. Manoochehri H, Hosseini NF, Saidijam M, Taheri M, Rezaee H, **Nouri F**. A review on invertase: Its potentials and applications. *Biocatalysis and Agricultural Biotechnology*. **2020**:101599.
26. Ghasemi Y, Ghoshoon MB, Taheri M, Negahdaripour M, **Nouri F**. Cloning, expression and purification of human PDGF-BB gene in *Escherichia coli*: New approach in PDGF-BB protein production. *Gene Reports*. **2020**;19:100653.
27. Amani S, Taheri M, Movahedi MM, Mohebi M, **Nouri F**, Mehdizadeh A. Evaluation of Short-Term Exposure to 2.4 GHz Radiofrequency Radiation Emitted from Wi-Fi Routers on the Antimicrobial Susceptibility of *Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Galen Medical Journal*. **2020**;9:1580.
28. Movahedi MM, **Nouri F**, Golpaygani AT, Ataee L, Amani S, Taheri M. Antibacterial susceptibility pattern of the *Pseudomonas aeruginosa* and *Staphylococcus aureus* after exposure to electromagnetic waves emitted from mobile phone simulator. *Journal of biomedical physics & engineering*. **2019**;9(6):637.
29. Taheri M, Mortazavi S, Moradi M, Mansouri S, Hatam G, **Nouri F**. Evaluation of the effect of radiofrequency radiation emitted from Wi-Fi router and mobile phone simulator on the antibacterial susceptibility of pathogenic bacteria *Listeria monocytogenes* and *Escherichia coli*. *Dose-Response*. **2017**;15(1):1559325816688527.
30. Taheri M, Moradi M, Mortazavi S, Mansouri S, Hatam G, **Nouri F**. Evaluation of the 900 MHz radiofrequency radiation effects on the antimicrobial susceptibility and growth rate of *Klebsiella pneumoniae*. *Shiraz E-Medical Journal*. **2017**;18(3).
31. Taheri M, Darabyan M, Izadbakhsh E, **Nouri F**, Haghani M, Mortazavi S, et al. Exposure to visible light emitted from smartphones and tablets increases the proliferation of *Staphylococcus aureus*: can this be linked to acne? *Journal of biomedical physics & engineering*. **2017**;7(2):163.
32. **Nouri F**, Sadeghpour H, Heidari R, Dehshahri A. Preparation, characterization, and transfection efficiency of low molecular weight polyethylenimine-based nanoparticles for delivery of the plasmid encoding CD200 gene. *International journal of nanomedicine*. **2017**;12:5557.
33. Taheri M, Mortazavi S, Moradi M, Mansouri S, **Nouri F**, Mortazavi S, et al. *Klebsiella pneumoniae*, a microorganism that approves the non-linear responses to antibiotics and window theory after exposure to Wi-Fi 2.4 GHz electromagnetic radiofrequency radiation. *Journal of biomedical physics & engineering*. **2015**;5(3):115.

34. Moradpour Z. GA, **Nouri F.**, Ghasemi Y. Increased expression of recombinant cholesterol oxidase in Escherichia coli by optimization of culture condition using response surface methodology. *Minerva Biotechnologica*. **2014**;26(4):281-6.
35. **Nouri F.**, Ghoshoon M, Ghasemi Y. Cloning and expression of pdgf-bb gene in eschrishia coli. *Research in Pharmaceutical Sciences*. **2012**;7(5):963.
36. Rasoul-Amini S, Ghasemi Y, Morowvat M, Ghoshoon M, Raei M, Mosavi-Azam S, **Nouri F.**, et al. Characterization of hydrocortisone bioconversion and 16S RNA gene in Synechococcus nidulans cultures. *Applied biochemistry and microbiology*. **2010**;46(2):191-7.
37. **Nouri F.**, Ghasemian A, Ghasemi Y. Optimization of cholesterol oxidase expression in E. coli by Response Surface Methodology. *Journal of Biotechnology*. **2010**(150):364.
38. Ghasemi Y, Rasoul-Amini S, Morowvat MH, Ghoshoon MB, Raei MJ, Khoubani S, **Nouri F.**, et al. C-20 ketone reduction of hydrocortisone by rice field microalga Chlorella vulgaris MCCS 013. *Chemistry of natural compounds*. **2009**;45(6):824-8.
39. Ghasemi Y, Rasoul-Amini S, Morowvat MH, Raei MJ, Ghoshoon MB, **Nouri F.**, et al. Characterization of hydrocortisone biometabolites and 18S rRNA gene in Chlamydomonas reinhardtii cultures. *Molecules*. **2008**;13(10):2416-25.

## **Book:**

1. Microbes in Agri-Food Wastes Valorization 2021, Fatemeh Asadi, **Fatemeh Nouri**, Mohammad Taheri, (**CRC Press, Taylor and Francis**). Boca Raton, Florida, United States.
2. B vitamins group: applications and perspectives, **Fatemeh Nouri**, Mohammad Taheri, Parisa Habibi, Meysam Soleimani Badie, 2020 (Translated in Persian). Tehran. Iran.
3. Medical Microbiology, Murray 8<sup>th</sup> ed, Taheri M; **Nouri F**; Arefzadeh S; Ghanbari F; Edalati F. (Translated in Persian). Tehran. Iran.
4. Generic midwifery drugs, 5<sup>th</sup> edition, **Fatemeh Nouri** and Nasim Bahmani, Royan Pajoo Publications, Tehran. Iran.

## **Gene Submission:**

Ghasemi,Y., Rasoul Amini,S., Morowvat,M.H., Ghoshoon,M.B., Raei,M.J., Mohagheghzadeh,A., Shokravi,S., Negintaji,N., Mosavi Azam,S.B., Nouri,F., Parvizi,R. and Khoubani,S. *Synechococcus nidulans* strain MCCS 008 16S ribosomal RNA gene, partial sequence. EU285584.1 GI: 161898487

### **Congress Presentation (recent):**

1. 1<sup>st</sup> National Congress of Nanotechnology in Health Sciences, May 2018 Hamedan  
Nanotechnology in Iranian Health Sciences Poster Antibacterial Susceptibility Evaluation of Novel Core-Shell nanoparticles against Gram Positive Pathogens Staphylococcus aureus and Streptococcus agalactiae Mohammad Taheri, Fatemeh Nouri, Ali Mohammad Amani, Shahrbanoo Ghaedi, Amir Rabiee
2. 1<sup>st</sup> National Congress of Nanotechnology in Health Sciences May 2018 Hamedan  
Nanotechnology in Iranian Health Sciences Poster Evaluation of the Growth Inhibition Effect of PEI based Nanoparticles against Bacterial Pathogen Enterococcus faecalis Mohammad Taheri, Ali Mohammad Amani, Shahrbanoo Ghaedi, Fatemeh Nouri, Amir Rabiee
3. 1<sup>st</sup> National Congress of Nanotechnology in Health Sciences May 2018 Hamedan  
Nanotechnology in Iranian Health Sciences Poster Investigation of the Antibacterial Susceptibility of new PEI based nanocompounds against Klebsiella pneumonia Mohammad Taheri, Ali Mohammad Amani, Shahrbanoo Ghaedi, Amir Rabiee, Fatemeh Nouri
4. 1<sup>st</sup> International Conference on Biotechnology and Global Development, May 2021  
Tehran, Microalgae: Therapeutic Potentials and Applications, Fatemeh Khavari, Massoud Saidijam, Mohammad Taheri, Fatemeh Nouri

### **Honors**

1. First Place Position in 24<sup>th</sup> Pharmaceutical Biotechnology Ph.D Exam.
2. Excellent Student, 2012, Shiraz University of Medical Sciences, Shiraz, Iran (Pharm.D).
3. Excellent Student, Shiraz University of Medical Sciences, Shiraz, Iran (Ph.D.).
4. Premier in Ph.D. graduate course.
5. Selected pharmacist of the province (2020)
6. Premier educational professor of Hamadan University of Medical Sciences (2021)

### **Scientific and Editorial Board Membership:**

1. Member of the **editorial board** BMC Pharmacology & Toxicology (IF: 2.48)
2. Member of the **editorial board** of Annals of Applied Sciences
3. Member of the **editorial board** of Current Medicine Journal.
4. Member of the **editorial board** of Advances in Pharmaceutical Sciences.
5. Member of the **editorial board** of Avicenna Journal of Pharmaceutical Research
6. Member of the **editorial board** of Avae Tavan scientific journal.
7. Member of the Iranian Association of Pharmaceutical Specialists
8. Member of the Iranian Medical System Organization
9. Member of Iranian Pharmacists Association
10. Director of Student Research Committee, School of Pharmacy, Shiraz, Iran (5 years)
11. Member of Estedadhaye-derakhshan office, Shiraz University of Medical Sciences, Shiraz, Iran.

### **Invited Reviewer in:**

1. Iranian Journal of Pharmaceutical Research
2. Journal of Reports in Pharmaceutical Sciences
3. Avicenna Journal of Pharmaceutical Research
4. Avicenna Journal of Clinical Microbiology and Infection
5. Journal of Biological trace element research (IF:3.7)
6. Journal of BMC Chemistry (IF: 2.6)
7. Journal of Infections in Developing Countries
8. Journal of Research in Pharmaceutical Sciences
9. And etc.