

Curriculum Vitae

Personal information:

Name: Nahid Alimoradi

Date of Birth: September 25th, 1989

Family status: Singel

Email: Nahid.alimoradi@gmail.com

Education:

Ph.D. in toxicology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran (2016-2023)

Pharm.D., Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran (2008-2015)

Diploma, Jalal al Ahmad High School, Kermanshah, Iran (2003-2007)

Thesis:

Ph.D., Evaluation of interaction of mTOR signaling pathway and improvement of symptoms in osteoarthritis patients treated with metformin

Pharm.D., Synthesis, acid phosphatase inhibitory evaluation and molecular modeling of alkylsulfonamido(4-methoxyphenyl)methyl)phosphonic acid derivatives with therapeutic potential of osteoporosis

Work Experience:

Hospital Pharmacist, Imam Reza Hospital, Kermanshah University of Medical Sciences, Kermanshah, Iran (2016)

Inspector General, Iran Food and Drug Administration (IFDA), Kermanshah, Iran (2016)

Awards and Scholarships:

-1st Best Ph.D. Student in the Board Exam of Ph.D. course (2017)

-16th Iranian Pharmaceutical Sciences Congress, Kermanshah University of Medical Sciences (2019), referee

-14th Iranian Congress of Toxicology, Shiraz University of Medical Sciences (2017), referee

Research Techniques and Experiences:

-Pharmacogenetic research by PCR-RFLP

-Real-time PCR

-Cell culture

-ELISA

-Flow cytometry

-ROS-mediated cytotoxicity assays

-Synthesis of organic structures

-Structural interpretation by NMR, Mass spectroscopy and IR

- Molecular Modeling and Docking
- Enzyme Kinetic assays
- Systems biology
- Clinical study

Mastery of applications

Graph Pad Prism

Auto dock

SPSS

HyperChem

Microsoft Office

Acquaintance with the applications

Gephi

TAC (Transcriptome Analysis Console)

Cell Designer

Attendant Workshops:

- RNA extraction techniques & Real-time PCR workshop
- Primer design workshop
- Cell culture workshop
- Laboratory Animal Management and Ethics workshop
- Systems biology workshop

Interested in human studies, systems biology, finding new mechanisms and applications for known drugs, personalizing treatment, and minimizing drug side effects

Full Papers:

127 Citations, H-Index:6, i10-Index:4

Web Page: <https://scholar.google.com/citations?user=sLgdzPcAAAAJ&hl=en>

Publications:

Alimoradi N, Ashrafi-Kooshk MR, Shahlaei M, Maghsoudi S, Adibi H, McGeary RP, Khodarahmi R. Diethylalkylsulfonamido (4-methoxyphenyl) methyl) phosphonate/phosphonic acid derivatives act as acid phosphatase inhibitors: synthesis accompanied by experimental and molecular modeling assessments. *Journal of enzyme inhibition and medicinal chemistry*. 2017 Jan 1;32(1):20-8.

Alimoradi N, Tahami M, Firouzabadi N, Haem E, Ramezani A. Metformin attenuates symptoms of osteoarthritis: role of genetic diversity of Bcl2 and CXCL16 in OA. *Arthritis Research & Therapy*. 2023 Mar 7;25(1):35.

Alimoradi N, Sharqi M, Firouzabadi D, Sadeghi MM, Moezzi MI, Firouzabadi N. SNPs of ACE1 (rs4343) and ACE2 (rs2285666) genes are linked to SARS-CoV-2 infection but not with the severity of disease. *Virology Journal*. 2022 Dec;19(1):1-9.

Alimoradi N, Firouzabadi N, Fatehi R. How metformin affects various malignancies by means of microRNAs: a brief review. *Cancer Cell International*. 2021 Dec;21(1):1-3.

Alimoradi N, Firouzabadi N, Fatehi R. Metformin and insulin-resistant related diseases: Emphasis on the role of microRNAs. *Biomedicine & Pharmacotherapy*. 2021 Jul 1; 139:111662.

Alimoradi N, Ramezani A, Tahami M, Firouzabadi N. Metformin Exhibits Anti-Inflammatory Effects by Regulating microRNA-451/CXCL16 and B Cell Leukemia/Lymphoma 2 in Patients with Osteoarthritis. *ACR Open Rheumatology*. 2024 Sep 24.

Firouzabadi N, Asadi-Pooya AA, Alimoradi N, Simani L, Asadollahi M. Polymorphism of glucocorticoid receptor gene (rs41423247) in functional seizures (psychogenic nonepileptic seizures/attacks). *Epilepsia Open*. 2023 Dec;8(4):1425-31.

Firouzabadi N, Alimoradi N, Najafizadeh M, Najafizadeh P. Effect of escitalopram on an acetic acid-induced ulcerative colitis model. *Clinical and Experimental Pharmacology and Physiology*. 2021 May;48(5):782-90.

Firouzabadi N, Alimoradi N, Kiafar M, Keshtgar S, Akbarizadeh AR, Mehdipour F. Neuroprotective Effects of losartan and Captopril in an H₂O₂-Induced Neurotoxicity Model of Neuro-2A Cells. 2021.

Alimoradi N, Firouzabadi N. impact of genetics on predisposition and prognosis of COVID-19. Trends in Pharmaceutical Sciences. 2021 Jun 1;7(2).

Works under research and publication:

- Metformin Exhibits Anti-inflammatory Effects by Regulating miR-451/CXCL-16 and BCL-2 in osteoarthritis patients
- RAS inhibitors exert neuroprotective effects by modulation of oxidative stress in an H₂O₂- induced neurotoxicity model of N2a cells
- Association between Osteopontin and APOE Gene Polymorphisms and Vancomycin-Induced Nephrotoxicity: A Pharmacokinetic/Pharmacogenetic Study in Critically Ill Patients

Consultant roles and Responsibilities:

Collaboration as a consultant in Pharm.D theses under the supervision of Dr. Negar Firouzabadi (Associate Professor of Pharmacology, Shiraz University of Medical Sciences, School of Pharmacy, Department of Pharmacology and Toxicology)

- **Effect of escitalopram on an acetic acid-induced ulcerative colitis model**
- **Evaluation of neuroprotective effects of cardiovascular and antidepressant drugs on N2a cells**
- **Evaluation of the association between ACE 2 gene G8790A variants with the occurrence and severity of COVID-19**
- **Evaluation of the relationship between vancomycin-induced nephrotoxicity and osteopontin and clusterin genetic differences in**

patients admitted to the special care department of Shiraz Namazi Hospital

- **Evaluation of the effect of IL-33 genetic variants on IL-33 serum level and response rate to metformin in osteoarthritis patients.**