

Alieh Ameri (Pharm. D., Ph.D.) Curriculum Vitae



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Place & Date of Birth: 24.March.1981, Kerman, Iran

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Work Address:

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Education:

- Scholarship of Kerman University of Medical Sciences (2012-2016)
- The School of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

- **Ph.D.:** Graduate Studies in Medicinal Chemistry (2009-2016), School of Pharmacy, Isfahan University of Medical Sciences, Isfahan, Iran

- **Pharm D.:** The School of Pharmacy, (2000-2006), Kerman University of Medical Sciences, Kerman, Iran

- Kowsar high School (1995-1999), Mahan, Kerman, Iran

Societies Memberships:

- Iranian Society of Pharmacists (2006- present)
- Medical Council of Iran (2006- present)
- Pharmaceutics Research Center, Institute of Neuropharmacology, Kerman University of Medical Sciences, Kerman, Iran (2017- present)
- Herbal and Traditional Medicines Research Center, Kerman University of Medical Sciences, Kerman, Iran (2017-present)

Academic skills:

- Drug Design and Computational chemistry (Molecular docking, Molecular dynamic, Density functional theory, QSAR)
- Expert in:
 - ChemOffice, Gaussian, GaussView, Hyperchem, Autodock, Rasmol, PyMOL, VMD, Swiss-PdbViewer, Discovery Studio, MODELLER, Gromacs, MolSoft, SigmaPlot, MATLAB, SPSS (Probit Analysis, ...), EndNote, Design- Expert, ACD/Labs softwares ...
 - Green chemistry
 - Microwave-assisted synthesis techniques
 - Fusion (melting) method for synthesis
 - Synthesis of 2-Azetidinone
 - Synthesis of Schiff Bases
 - Synthesis of Mannich Bases
 - Synthesis of heterocyclic chemical compounds (thiadiazole, 1,2,4-triazole, 1,3,4-oxadiazole-thione, hydrazine, Hydrazone)
 - Characterization methods for chemicals (^1H and ^{13}C NMR, FT-IR, Mass spectroscopy, CHN analysis)
 - Column chromatography, Preparative thin layer chromatography (PTLC)
 - High-performance liquid chromatography (HPLC)
 - Animal Cell Culture (MTT assay, IC_{50} determination), Antimicrobial evaluation (INT assay, MIC determination), Brine Shrimp Lethality Assay (BSL)
 - Tubulin targeting agents evaluation
 - Fractionation of herbal extracts
 - Essential oil preparation and analysis
- Extensive in NCBI, PDB, or other on line medical sites.

- Finally, I am a pharmacist and familiar with pharmaceutical agents, drug interaction, drug precautions, drug pharmacokinetics and pharmacodynamics, biopharmacy, pharmacognosy and related sciences.

Honoraria:

- Membership of talent group of students of Isfahan University of Medical Sciences
- Get the second grade in pharmacognosy of 11th Iranian Pharmaceutical Students Seminar, 9-11 November 2005, Shiraz, Iran

Ph. D. Thesis:

2016 Design, synthesis and evaluation of some biological activities of novel 3-chloro-1, 4-diarylazetidin-2-one derivatives

Pharm. D. Thesis:

2006 Evaluation of cytotoxic effect of essential oil and different extracts of *Heracleum persicum* desf.ex Fischer and *Zingiber officinale* Rosc. using brine shrimp test and isolation of effective fraction(s)

Teaching Experiences:

1. Medicinal Chemistry II
2. Medicinal Chemistry III
3. Organic Chemistry I
4. Organic Chemistry II
5. Organic Chemistry I (practical)
6. Bioinformatics (Ph.D.)
7. Medicinal Chemistry (Ph.D.)

Faculty of Pharmacy, Kerman University of Medical sciences, Kerman, Iran

Thesis advisor:

- Synthesis of novel derivatives of 5-(5-nitrofuran-2-yl)-1,3,4-thiadiazole-2-yl none- piperazine thioalkyl amides with anti-tubercular potential
- Synthesis of novel derivatives of 5-(5-nitrofuran-2-yl)-1,3,4-thiadiazole-2-yl none- piperazine amides with anti-tubercular potential

Thesis Supervisors:

- Evaluation of the importance of 3,4,5-trimethoxyphenyl pharmacophore of 4-{[(4-nitrophenyl)methylidene]amino}-5-[(3,4,5-trimethoxyphenyl)methyl]-2H-1,2,4-triazole-3-thione for cytotoxicity and tubulin inhibitory effects
- Evaluation of the importance of 3,4,5-trimethoxyphenyl pharmacophore of 4-{[(2,3-dichlorophenyl)methylidene]amino}-5-[(3,4,5-trimethoxyphenyl)methyl]-2H-1,2,4-triazole-3-thione for cytotoxicity and tubulin inhibitory effects
- Computational Chemistry studies for evaluation the importance of 3,4,5-trimethoxyphenyl pharmacophore of Aldimine-type Schiff base as tubulin polymerization inhibitors
- Design, synthesis and cytotoxic evaluation of new N1-(phenoxy ethyl) theobromine as potential cytotoxic agents
- Identification of new structures with mTORC1 and P13K receptors inhibitory activity using a virtual screening method

Attendance in Congress:

1. Mousavi, S.M., Forootanfar, H., Faramarzi, M.A., Ameri, A., Shakibaie, M., (2013) Metal nanoparticle production assisted by α -amylase. 3rd International Student Biotechnology Congress, Tehran, Iran.
2. Hamidian, K., Forootanfar, H., Shakibaie, M., Shahidi G., Ameri A., Moshafi, M., (2012) Identification of soil isolated actinomycetes with inhibitory effect on bacterial and fungal pathogens by 16S rDNA technique. 13th Iranian Pharmaceutical Sciences Congress. Isfahan, Iran.
3. Salarpour, S., Forootanfar, H., Shakibaie, M., Ameri, A., Moshafi, M., (2012). Screening of *Bacillus* species with potentials of antibiotics production. 13th Iranian Pharmaceutical Sciences Congress. Isfahan, Iran. 12th Iranian Pharmaceutical Sciences Congress. Zanjan, Iran.
4. Ahmadi N., Safaei M., Ameri A., Daryae F., Pournamdari M., (2010). Design & synthesis of mercaptoacetyl piperazine derivatives from thiadiazole and evaluation of their anti-tuberculosis effect.

Publications: Books:

- Frootanfar, H., Shakibaie, M., Zare, B., Ameri, A., Mohammadi-Khorsand, T., (2012). From Genes to Genomes: Concepts and Application to DNA Technology (Translation). Kerman University of Medical Sciences Publisher.

Articles:

1. Jalili-Baleh L, Forootanfar H, Küçükılınç TT, Nadri H, Abdolahi Z, Ameri A, et al. Design, synthesis and evaluation of novel multi-target-directed ligands for treatment of Alzheimer's disease based on coumarin and lipoic acid scaffolds. *European Journal of Medicinal Chemistry* 2018;152: 600-14.
2. Ameri A, Khodarahmi G, Forootanfar H, Hassanzadeh F, Hakimelahi GH. Hybrid Pharmacophore Design, Molecular Docking, Synthesis, and Biological Evaluation of Novel Aldimine-Type Schiff Base Derivatives as Tubulin Polymerization Inhibitor. *Chemistry & biodiversity*. 2018: DOI: 10.1002/cbdv.201700518.
3. Ameri A, Shakibaie M, Faramarzi MA, Ameri A, Amirpour-Rostami S, Rahimi HR, Forootanfar H. Thermoalkalophilic lipase from an extremely halophilic bacterial strain *Bacillus atrophaeus* FSHM2: Purification, biochemical characterization and application. *Biocatalysis and Biotransformation*. 2017;151-160.
4. Shakibaie M, Mohammadi-Khorsand T, Adeli-Sardou M, Jafari M, Amirpour-Rostami S, Ameri A^{*}, Forootanfar H. Probiotic and antioxidant properties of selenium-enriched *Lactobacillus brevis* LSe isolated from an Iranian traditional dairy product. *Journal of Trace Elements in Medicine and Biology*. 2017;40: 1-9.
5. Pourabdi L, Khoobi M, Nadri H, Moradi A, Moghadam FH, Emami S, Mojtahedi MM, Haririan I, Forootanfar H, Ameri A, et al. Synthesis and structure-activity relationship study of tacrine-based pyrano [2, 3-c] pyrazoles targeting AChE/BuChE and 15-LOX. *European Journal of Medicinal Chemistry*. 2016; 123: 298-308.
6. Ameri A, Khodarahmi G, Hassanzadeh F, Forootanfar H, Hakimelahi GH. Novel Aldimine- Type Schiff Bases of 4-Amino-5-[(3, 4, 5-trimethoxyphenyl) methyl]-1, 2, 4-triazole-3- thione/thiol: Docking Study, Synthesis, Biological Evaluation, and Anti-Tubulin Activity. *Archiv der Pharmazie*. 2016; 349(8): 662-81.
7. Forootanfar H, Rezaei S, Zeinvand-Lorestani H, Tahmasbi H, Mogharabi M, Ameri A, Faramarzi MA. Studies on the laccase-mediated decolorization, kinetic, and microtoxicity of some synthetic azo dyes. *Journal of Environmental Health Science and Engineering*. 2016; 14(1): 7-15.
8. Ameri A, Shakibaie M, Ameri A, Faramarzi MA, Amir-Heidari B, Forootanfar H. Photocatalytic decolorization of bromothymol blue using biogenic selenium nanoparticles synthesized by terrestrial actinomycete *Streptomyces griseobrunneus* strain FSHH12. *Desalination and Water Treatment*. 2015; 57(45): 21552-21563.
9. Rezaei S, Tahmasbi H, Mogharabi M, Firuziyar S, Ameri A, Khoshayand MR, Faramarzi MA. Efficient decolorization and detoxification of reactive orange 7 using laccase isolated from *Paraconiothyrium variable*, kinetics and energetics. *Journal of the Taiwan Institute of Chemical Engineers*. 2015; 56: 113-121.
10. Ameri A, Shakibaie M, Amirpour-Rostami S, Ameri A, Adeli-Sardou M, Khazaeli P, Rahmani H, Forootanfar H. Partial purification and characterization of a thermoalkalophilic lipase originated from *Bacillus atrophaeus* FSHM2 and its application for ester synthesis. *Biotechnology*. 2015; 14(4): 154-164.

11. Rezaei S, Tahmasbi H, Mogharabi M, Ameri A, Forootanfar H, Khoshayand MR, Faramarzi MA. Laccase-catalyzed decolorization and detoxification of Acid Blue 92: statistical optimization, microtoxicity, kinetics, and energetics. *Journal of Environmental Health Science and Engineering*. 2015; 13(1): 31-39.
12. Shakibaie M, Haghiri M, Jafari M, Amirpour-Rostami S, Ameri A, Forootanfar H, Mehrabani M. Preparation and evaluation of the effect of Fe₃O₄@ piroctone olamine magnetic nanoparticles on matrix metalloproteinase-2: A preliminary in vitro study. *Biotechnology and Applied Biochemistry*. 2014; 61(6): 676-682.
13. Ramazani A, Khoobi M, Torkaman A, Nasrabadi FZ, Forootanfar H, Shakibaie M, Jafari M, Ameri A, Emami S, Faramarzi MA. One-pot, four-component synthesis of novel cytotoxic agents 1-(5-aryl-1, 3, 4-oxadiazol-2-yl)-1-(1H-pyrrol-2-yl) methanamines. *European Journal of Medicinal Chemistry*. 2014; 78: 151-156.
14. Forootanfar H, Moezzi A, Aghaie-Khozani M, Mahmoudjanlou Y, Ameri A, Niknejad F, Faramarzi MA. Synthetic dye decolorization by three sources of fungal laccase. *Iranian Journal of Environmental Health Science & Engineering*. 2012; 9(1): 27-36.
15. Moshafi MH, Forootanfar H, Ameri A, Shakibaie M, Dehghan-Noudeh G, Razavi M. Antimicrobial activity of *Bacillus* sp. strain FAS1 isolated from soil. *Pakistan Journal of Pharmaceutical Sciences*. 2011; 24(3): 269-275.
16. Moshafi MH, Sharififar F, Dehghan G, Ameri A. Bioassay screening of the essential oil and various extracts of fruits of *Heracleum persicum* Desf. and rhizomes of *Zingiber officinale* Rosc. using brine shrimp cytotoxicity assay. *Iranian Journal of Pharmaceutical Research*. 2010; 8(1): 59-63.
17. Sharififar F, Moshafi MH, Dehghan-Nudehe G, Ameri A, Alishahi F, Pourhemati A. Bioassay screening of the essential oil and various extracts from 4 spices medicinal plants. *Pakistan Journal of Pharmaceutical Sciences*. 2009; 22(3): 317-322.
18. Sharififar F, Moshafi M, Dehghan G, Ameri A, Alishahi F. Evaluation of cytotoxicity of the essential oil and various extracts of cinnamon and ginger using brine shrimp lethality assay (BSL). *Journal of Medicinal Plants*. 2009; 2(30): 110-119.
19. **Thirty** Gene submissions to GenBank of NCBI.

Interests:

- Painting; Calligraphy

References:

- Dr. Gh. Khodarahmi (supervisor): Associated Professor of Medicinal chemistry, Department of Medicinal Chemistry, Faculty of Pharmacy, Isfahan University of Medical Sciences; Email: Khodarahmi@pharm.mui.ac.ir, Tel: 0098-31-37927095
- Dr. F. Hassanzadeh (supervisor): Associated Professor of Medicinal Chemistry, Department of Medicinal Chemistry, Faculty of Pharmacy, Isfahan University of Medical Sciences
- Dr. H. Forootanfar (supervisor): Associated Professor of Pharmaceutical Biotechnology, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Kerman University of medical sciences
- Dr. M.A. Faramarzi, Professor of Pharmaceutical Biotechnology, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tehran University of medical sciences; Email: ffaramarzi@yahoo.com, Tel.: 0098-21-66959090