

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



**Name:** Alieh Ameri

**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 (<sup>1</sup>H and <sup>13</sup>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<sub>50</sub> 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 11<sup>th</sup> 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-diarylazetid-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 new non-piperazine derivatives of 5-(5-Nitrofurane - 2 -yl)- 1,3,4- thiadiazole-2-yl thioalkylamide as potential Antituberculosis Agent
- Synthesis of new piperazine derivatives of 5-(5-Nitrofurane - 2 -yl)- 1,3,4- thiadiazole-2-yl thiomethylamide as potential Antituberculosis Agent

### ***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

### ***Thesis Referees:***

- Design, Molecular Docking and ultrasound synthesis of Novel Bisindolizine-1- Carbonitrile Derivatives as Potential Active Biological Substances
- Virtual screening method in order to identify new structures for dual inhibition of mTOR C1 and mTOR C2
- Synthesis of pirano derivatives [b-2,3] chromium by reaction between 3-hydroxy-4H-chromium-4-one and arylidene malononitrile as potential agents
- Study of chemical composition of Ropas of Kerman (Solanum villosum Mill.)
- Study of chemical composition of aquaus extract of Khimook (Ephedra pachyclada Boiss)

### ***Attendance in Congress:***

1. Mousavi, S.M., Forootanfar, H., Faramarzi, M.A., **Ameri, A.**, Shakibaie, M., (2013) Metal nanoparticle production assisted by  $\alpha$ -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. 13<sup>th</sup> 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. 13<sup>th</sup> Iranian Pharmaceutical Sciences Congress. Isfahan, Iran. 12<sup>th</sup> 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, Küçükkılınc 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, Firuzyar 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 Fe<sub>3</sub>O<sub>4</sub>@ 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