

Curriculum vitae
Atefeh Ameri (Ph. D. by research)
Research Assistant Professor of Pharmaceutical Sciences
Pharmaceutical Sciences and Cosmetic Products Research Center
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Last Name: Ameri

Frist Name: Atefeh

Date of birth: The 24th Aug 1984

Native Language: Persian

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Education:

2016-2020: Ph.D. by Research, Pharmaceutical Research Center, University of Medical Sciences, Kerman, Iran.

2008-2011: Plant Pathology, M.Sc., Department of Plant Protection, College of Agriculture, Shahid Bahonar University of Kerman, Kerman, Iran.

2002-2006: Plant Protection, B.Sc., Department of Plant Protection, College of Agriculture Shahid Bahonar University of Kerman, Kerman, Iran.

Theses:

Ph.D. by Research: Isolation and identification of halophilic lipase producing bacterial strain, enzyme purification, characterization and immobilization onto nanocomposite scaffolds.

M.Sc: Investigation on secondary hosts of Potato virus Y and role of recombination in these virus isolates.

B.Sc: Plum Pox Virus (PPV).

Honors:

- Top researcher of Kerman University of Medical Sciences in 2020.
- Exceptional talent student of Kerman University of Medical Sciences in 2020.
- 1st ranked among Ph.D by Research students at Pharmaceutical Research Center, Kerman University of Medical Sciences in 2020.
- 2st ranked among M.Sc Plant Pathology students at College of Agriculture, Shahid Bahonar University of Kerman in 2011.

Academic skills:

- Well-developed experiences in working with UV-Visible spectrometer; HPLC (Knauer), PCRs, RT-PCR, SDS-PAGE, western blotting.
- Expert in immobilization methods of enzymes onto different supports.
- Expert in molecular cloning of bacteria, including primer design, DNA and extraction and purification, electrophoresis, restriction digestion, ligation, protein isolation and purification.
- Expert in Indirect ELISA, Sandwich ELISA, and Compound direct ELISA.
- Expert in Animal Cell Culture (MTT assay, IC50 determination), Antimicrobial evaluation (INT assay, MIC determination), Oxidative stress activities measurement (GSH and MDA levels as well as SOD and CAT).
- Expert in microwave-assisted synthesis techniques.
- Expert in ChemOffice, MEGA, DNAMAN, DnaSP, Canvas, SigmaPlot, SPSS, EndNote, Design- Expert softwares.
- Extensive in NCBI, or other on line medical sites.

Attendance in Congress:

1. Azad Salimi, Hamid Reza Rahimi, Hamid Forootanfar, Elham Jafari, **Atefeh Ameri**, Mojtaba Shakibaie. (2018). Acute and sub-acute oral toxicity of microwave-assisted synthesis of zinc nanoparticles using *Lavandula vera* in mice. 2nd International Congress on BioPharma.
2. Azad Salimi, Hamid Reza Rahimi, **Atefeh Ameri**, Atoosa Ghaseminejad, Mojtaba Shakibaie, Hamid Forootanfar. (2018). Ondansetron enhanced diclofenac sodium-induced nephrotoxicity in mice: the first report of drug-drug interaction. 2nd International Congress on BioPharma.
3. Mozhdeh Soleimani, **Atefeh Ameri**, Hamid Forootanfar, Mojtaba Shakibaie, Alieh Ameri, Hamid Reza Rahimi. (2018). Isolation and identification of halophilic lipase producing bacterial strain and optimization of enzyme production by UV mutagenesis and statistical methods. 21st Iranian Pharmacy Students Seminar.
4. Mandana Jafari, Hamid Forootanfar, Farokh Rokhbakhsh Zamin, **Atefeh Ameri**. (2017). Synthesis and characterization of gold nanoparticles by isolated bacterial from Kerman Sarcheshmeh copper mine soil and the study of their cytotoxic properties. International Congress on Biomedicine.

5. Farzad Doostishoar, Hamid Forootanfar, Morvarid Hasan-Bikdashti, Mohammad Ali Faramarzi and **Atefe Ameri**. (2013). Bioconversion of capsaicin using the optimized culture broth of lipase producing bacterium of *Stenotrophomonas maltophilia*. 14th Annual Research Congress of Iran's Medical Sciences Students and the Fifth Annual International Congress of Students.
6. Mehran Ghazanfari, Hamid Forootanfar, Mojtaba Shakibaie, Mohammad Ali Faramarzi, **Atefeh Ameri**. (2013). p-chlorophenol removal assisted by free and alginate immobilized cells of the microalgae *Tetraselmis suecica*. Pharmacy students Seminar Kermanshah.
7. Farzad Doostishoar, Hamid Forootanfar, Morvarid Hasan-Bikdashti, Mohammad Ali Faramarzi and **Atefe Ameri**. (2012). Bioconversion of capsaicin using the optimized culture broth of lipase producing bacterium of *Stenotrophomonas maltophilia*. 13th Annual Research Congress of Iran's Medical Sciences Students.
8. **Atefeh Ameri**, Hossein Masoumi, Jahangir Heydarnejad and Akbar Hosseinipour. (2012). Cloning of the P1 gene and taxonomic position of Iranian potato virus Y isolates from secondary hosts. 20th Iranian plant protection Congress, Shiraz, Iran.
9. **Atefeh Ameri**, Hossein, Masoumi, Jahangir Heydarnejad, Akbar Hosseinipour and Vahid Nazeri. (2011). Molecular analysis of Iranian Potato virus Y isolates in secondary hosts. The 7th National Biotechnology Congress, Tehran, Iran.

Articles:

1. Taghizadeh T, **Ameri A**, Talebian-Kiakalaieh A, Mojtavavi S, Ameri A, Forootanfar H, Tarighi S, Faramarzi MA. Lipase@ zeolitic imidazolate framework ZIF-90: A highly stable and recyclable biocatalyst for the synthesis of fruity banana flavour. International Journal of Biological Macromolecules. 2020;166:1301-11.
2. Ohadi M, Forootanfar H, Dehghannoudeh G, Eslaminejad T, **Ameri A**, Shakibaie M, Najafi A. Biosynthesis of gold nanoparticles assisted by lipopeptide biosurfactant derived from *Acinetobacter junii* B6 and evaluation of its antibacterial and cytotoxic activities. BioNanoScience. 2020;10(4):899-908.
3. **Ameri A**, Shakibaie M, Khoobi M, Faramarzi MA, Gholibegloo E, Ameri A, Forootanfar H. Optimization of immobilization conditions of *Bacillus atrophaeus* FSHM2 lipase on maleic copolymer coated amine-modified graphene oxide nanosheets and its application for valeric acid esterification. International Journal of Biological Macromolecules. 2020;162:1790-806.
4. **Ameri A**, Shakibaie M, Pournamdari M, Ameri A, Forootanfar A, Doostmohammadi M, Forootanfar H. Degradation of diclofenac sodium using UV/biogenic selenium

nanoparticles/H₂O₂: Optimization of process parameters. Journal of Photochemistry and Photobiology A: Chemistry. 2020;392:112382.

5. **Ameri A**, Shakibaie M, Khoobi M, Faramarzi MA, Ameri A, Forootanfar H. Immobilization of thermoalkalophilic lipase from *Bacillus atrophaeus* FSHM2 on amine-modified graphene oxide nanostructures: Statistical optimization and its application for pentyl valerate synthesis. Applied Biochemistry and Biotechnology. 2019;10:1-26.
6. **Ameri A**, Shakibaie M, Rahimi HR, Adeli-Sardou M, Raeisi M, Najafi A, Forootanfar H. Rapid and Facile microwave-assisted synthesis of palladium nanoparticles and evaluation of their antioxidant properties and cytotoxic effects against fibroblast-like (HSkMC) and human lung carcinoma (A549) cell lines. Biological trace element research. 2019;28:1-9.
7. Ohadi M, Forootanfar H, Dehghannoudeh G, Eslaminejad T, **Ameri A**, Shakibaie M, Adeli-Sardou M. Antimicrobial, anti-biofilm, and anti-proliferative activities of lipopeptide biosurfactant produced by *Acinetobacter junii* B6. Microbial pathogenesis. 2020;138:103806.
8. Doostmohammadi M, **Ameri A**, Mohammadinejad R, Dehghannoudeh N, Banat IM, Ohadi M, Dehghannoudeh G. Hydrogels for peptide hormones delivery: therapeutic and tissue engineering applications. Drug Design, Development and Therapy. 2019;13:3405.
9. **Ameri A**, Shakibaie M, Sahami Z, Khoobi M, Forootanfar H. Statistical optimization of cultural medium composition of thermoalkalophilic lipase produced by a chemically induced mutant strain of *Bacillus atrophaeus* FSHM2. 3 Biotech. 2019;9(7):268.
10. Salimi A, Rahimi HR, Forootanfar H, Jafari E, **Ameri A**, Shakibaie M. Toxicity of microwave-assisted biosynthesized zinc nanoparticles in mice: a preliminary study. Artificial cells, nanomedicine, and biotechnology. 2019 Dec 4;47(1):1846-58.
11. Shakibaie M, Alipour-Esmaeili-Anari F, Adeli-Sardou M, **Ameri A**, Doostmohammadi M, Forootanfar H, Ameri A. Antibacterial and anti-biofilm effects of microwave-assisted biologically synthesized zinc nanoparticles. Nanomedicine Journal. 2019;6(3):223-31.
12. Shakibaie M, Forootanfar H, Ghaseminejad A, Salimi A, **Ameri A**, Doostmohammadi M, Jafari E, Rahimi HR. Ondansetron enhanced diclofenac-induced nephrotoxicity in mice. Journal of biochemical and molecular toxicology. 2019;33(9):e22378-.
13. Zihayat B, Shakibaie M, Sabouri-Shahrbabak S, Doostmohammadi M, **Ameri A**, Adeli-Sardou M, Forootanfar H. Medium optimization for polyhydroxyalkanoate production by *Pseudomonas pseudoalcaligenes* strain Te using D-optimal design. Biocatalysis and Agricultural Biotechnology. 2019; 18:101001.
14. **Ameri A**, Shakibaie M, Soleimani-Kermani M, Faramarzi MA, Forootanfar H. Overproduction of thermoalkalophilic lipase secreted by *Bacillus atrophaeus* FSHM2 using UV-induced mutagenesis and statistical optimization of medium components. Preparative Biochemistry and Biotechnology. 2019; 49(2):184-91.

15. Ranjbar M, Forootanfar H, Pardakhty A, Shakibaie M, **Ameri A**. Controllable synthesis of Ag nanoparticles encapsulated in non-ionic surfactant-based vesicle for photodegradation of methylene blue. *Journal of Materials Science: Materials in Electronics*. 2018; 29(21):18249-57.
16. Shakibaie M, Abharian A, Forootanfar H, **Ameri A**, Jafari M, Rahimi HR. Cytotoxicity investigations of biogenic tellurium nanorods towards PC12 cell line. *IET Nanobiotechnology*. 2018; 12(8):1144-9.
17. Jafari M, Rokhbakhsh-Zamin F, Shakibaie M, Moshafi MH, **Ameri A**, Rahimi HR, Forootanfar H. Cytotoxic and antibacterial activities of biologically synthesized gold nanoparticles assisted by *Micrococcus yunnanensis* strain J2. *Biocatalysis and Agricultural Biotechnology*. (2018) Jun 21.
18. Shakibaie M, Forootanfar H, **Ameri A**, Adeli-Sardou M, Jafari M, Rahimi HR. Cytotoxicity of biologically synthesised bismuth nanoparticles against HT-29 cell line. *IET Nanobiotechnology*. 12 (2018) 653-657.
19. Shakibaie M, **Ameri A**, Ghazanfarian R, Adeli-Sardou M, Amirpour-Rostami S, Torkzadeh-Mahani M, Imani M, Forootanfar H. Statistical optimization of kojic acid production by a UV-induced mutant strain of *Aspergillus terreus*. *Brazilian Journal of Microbiology*. 49 (2018) 865-871.
20. **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*. 35 (2017) 151-160.
21. Shakibaie M, Adeli-Sardou M, Mohammadi-Khorsand T, ZeydabadiNejad M, Amirafzali E, Amirpour-Rostami S, **Ameri A**, Forootanfar H. Antimicrobial and Antioxidant Activity of the Biologically Synthesized Tellurium Nanorods; A Preliminary In vitro Study. *Iranian journal of biotechnology*. 15 (2017) 268-276.
22. Najimi S, Shakibaie M, Jafari E, **Ameri A**, Rahimi N, Forootanfar H, Yazdanpanah M, Rahimi HR. Acute and subacute toxicities of biogenic tellurium nanorods in mice. *Regulatory Toxicology and Pharmacology*. 90 (2017) 222-230.
23. Salari Z, **Ameri A**, Forootanfar H, Adeli-Sardou M, Jafari M, Mehrabani M, Shakibaie M. Microwave-assisted biosynthesis of zinc nanoparticles and their cytotoxic and antioxidant activity. *Journal of Trace Elements in Medicine and Biology* 39 (2017) 116–123.
24. **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* 57 (2016) 21552-21563.

25. **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: 154-164.
26. Forootanfar, H., Zare, B., Fasihi-Bam, H., Amirpour-Rostami, S., **Ameri, A.**, Shakibaie, M., Torabi Nami, M., Biosynthesis and Characterization of Selenium Nanoparticles Produced by Terrestrial Actinomycete *Streptomyces microflavus* Strain FSHJ31. *Research and Reviews: Journal of Microbiology and Biotechnology* (2014) 3: 47-53.
27. Hasan-Beikdashti, M., Forootanfar, H., Safiarian, S., **Ameri, A.**, Ghahremani, M.H., Khoshayand, M.R., Faramarzi, M.A. Optimization of culture conditions for production of lipase by a newly isolated bacterium *Stenotrophomonas maltophilia*. *Journal of the Taiwan Institute of Chemical Engineers.* (2012) 43: 670-677.
28. **Eleven Gene** submissions to GenBank of NCBI.

Proposals:

1. Twenty-two proposals were approved by the Research Information System (PAJOHAN) of Kerman University of Medical Sciences.
2. Six proposals were approved by the National Institute for Medical Research Development (NIMAD).

References:

- Dr. M. Shakibaie (supervisor): Associated Professor of Pharmaceutical Biotechnology, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Kerman University of medical sciences, Email: Shakiba@kmu.ac.ir; mojtabashakibaie@yahoo.com, Tel.: +98-34-31325253
- Dr. H. Forootanfar (supervisor): Associated Professor of Pharmaceutical Biotechnology, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Kerman University of medical sciences, Email: forootanfar@yahoo.com; h_forootanfar@kmu.ac.ir, Tel.: +98-34-31325238