

Curriculum vitae



Mojtaba Shakibaie

Pharm D., Ph.D

Associate Professor of Pharmaceutical Biotechnology

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Nationality: Persian

Date of birth: The 20th Sep 1981

Marital status: Married

Native Language: Persian

Foreign language: English speaker

I have passed MCHE (A test was prepared by ministry of Science, Research and Technology of Iran for receiving foreign scholarships).

Education:

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| 1995-1999 | Diploma, Emam Khomeini High school, Shahr Babak, Kerman, Iran. |
| 1999-2005 | Pharm.D. from Kerman University of Medical Science, Kerman Iran. |
| 2005-2007 | Pharmacist, Military services, Vali Asr Hospital, Tehran, Iran |

2007-2010	Ph.D. student of Pharmaceutical Biotechnology, Tehran University of Medical Sciences, Tehran, Iran.
2011	Department of pharmaceutical biotechnology, Kerman University of medical sciences, Kerman, Iran

Societies Membership

Iranian Society of Pharmacists (2004- present).
 Medical Council of Iran (2005- present)

Academic skills:

- Well- developed experiences in working with UV-Visible and biophotometer; Infrared spectrometer; 3800-CP Varian[®] HPLC; Knauer; conventional PCRs, SDS-PAGE, western blotting.
- Proven ability in using USP, BP, Micromedex, International Pharmaceutical Abstract, GENERUNER, ENDNote and Reference manager softwares.
- Extensive in NCBI, PDB, or other on line medical sites.
- Expert in molecular cloning of bacteria, including primer design, DNA and extraction and purification, electrophoresis, restriction digestion, ligation, protein isolation and purification.
- Expert in animal Cell culture, Immunocytochemistry, Flowcytometry.
- Finally, I am a pharmacist and familiar with pharmaceutical agents, drug interaction, drug precautions, drug pharmacokinetics and pharmacodynamics, biopharmacy, pharmacognosy and related sciences.

Accomplishments & Honours:

2001 Second rank award and appreciation letter for the best mark, 145 (73%), in the 13th “*Basic Science Achievement Test*”, Kerman University of Medical Sciences.

- 2005 First rank award and appreciation letter for the best marks, GPA=18.00 (90.00%), Kerman University of Medical Sciences.
- 2005 Award and appreciation letter for being chosen as well-educated student, Kerman University of Medical Sciences.
- 2007 Achieving the second mark in the 19th Ph.D. student entrance exam and being accepted in Tehran University of Medical Sciences.
- 2008 CO-manager of the 11th Iranian Pharmaceutical Sciences congress. Kerman, Iran
- 2008 Manager of the first national congress of Ph.D. students of pharmaceutical biotechnology, Tehran, Iran.
- 2009 First mark, 186 (93%) in the 4th national board exam for pharmaceutical biotechnologists, Tehran University of Medical Sciences.

Publications:

Farsi publication:

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

2- Faramarzi MA, Forootanfar H, **Shakibaie M (2010)** *Microalgal Biotechnology*. Tehran University of Medical Sciences Publisher, Tehran, Iran.

Book chapter:

- 1- Shahverdi AR, **Shakibaie M**, Nazari P. Basic and practical procedures for microbial synthesis of nanoparticles. In : Rai M, Duran N, editor. *Metal nanoparticles in microbiology*. 1st ed. Springer; 2011. P. 177-197.

Articles:

- 1- Atefeh Ameri, **Mojtaba Shakibaie**, Sahar Amirpour-Rostami, Alieh Ameri, Mahboubeh Adeli-Sardou, Payam Khazaeli, Hamid Rahmani and Hamid Forootanfar. 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.
- 2- Hamid Forootanfar, Sahar Amirpour-Rostami, Mandana Jafari, Amir Forootanfar, Zahra Yousefizadeh, **Mojtaba Shakibaie**. Microbial-assisted synthesis and evaluation the cytotoxic effect of tellurium nanorods. *Materials Science and Engineering C* 2015; 49: 183–189 .
- 3- **Mojtaba Shakibaie**, Hamid Forootanfar, Yaser Golkari, Tayebe Mohammadi-Khorsand, Mohammad Reza Shakibaie. Anti-biofilm activity of biogenic selenium nanoparticles and selenium dioxide against clinical isolates of *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and *Proteus mirabilis*. *Journal of Trace Elements in Medicine and Biology* 2015; 29: 235–241.
- 4- Hossein Mahmoudvand, **Mojtaba Shakibaie**, Razieh Tavakoli, Sareh Jahanbakhsh, Iraj Sharifi. In Vitro Study of Leishmanicidal Activity of Biogenic Selenium Nanoparticles against Iranian Isolate of Sensitive and Glucantime- Resistant *Leishmania tropica*. *Iranian J Parasitol* 2014; 9 (4): 452-460.
- 5- **Shakibaie M**, Haghiri M, Jafari M, Amirpour-Rostami S, Ameri A, Forootanfar H, Mehrabani M. Preparation and evaluation the effect of Fe₃O₄@piroctone olamine magnetic nanoparticles on matrix metalloproteinase-2: a preliminary in vitro study. *Biotechnol Appl Biochem*. 2014; 61(6): 676–682.
- 6- Hossein Mahmoudvand, Iraj Sharifi, Majid Fasihi Harandi, Mostafa Shokohi, **Mojtaba Shakibaie**, Tahereh Rezaei Rabani, Sareh Jahanbakhsh, Abbas Ali Ghasemi (2014) Anti-leishmania effects of methotrexate (MTX) alone and in combination with meglumine antimoniate (MA) against Iranian isolate of sensitive and MA-resistant *Leishmania tropica*: An in-vitro assay. *Asian Pacific Journal of Tropical Medicine* (2014)412-420.
- 7- Hossein Mahmoudvand , Majid Fasihi Harandi, **Mojtaba Shakibaie** Mohammad Reza Aflatoonian, Naser ZiaAli, Mahsa Sadat Makki, Sareh Jahanbakhsh (2014) Scolicidal effects of biogenic selenium nanoparticles against protoscolices of hydatid cysts. *International Journal of Surgery*, 12 (5), 399–403.
- 8- Ali Ramazani , Mehdi Khoobi, Azar Torkaman, Fatemeh Zeinali Nasrabadi, Hamid Forootanfar, **Mojtaba Shakibaie**, Mandana Jafari, Alieh Ameri, Saeed Emami, Mohammad Ali Faramarzi, Alireza Foroumadi, Abbas Shafiee (2014) One-pot, four-component synthesis of novel cytotoxic agents 1-(5-aryl-1,3,4-oxadiazol-2-yl)-1-(1*H*-pyrrol-2-yl)methanamines. *European Journal of Medicinal Chemistry* 78, 151-156

- 9- Hamid Forootanfar, Bijan Zare, Homasadat Fasihi-Bam, Sahar Amirpour-Rostami, Atefe Ameri, **Mojtaba Shakibaie**, Mohammad Torabi Nami (2014) Biosynthesis and Characterization of Selenium Nanoparticles Produced by Terrestrial Actinomycete *Streptomyces microflavus* Strain FSHJ31. Research and Reviews: Journal of microbiology and biotechnology 3 (1), 47-53.
- 10- Hamid Forootanfar, Mahboubeh Adeli-Sardou, Maryam Nikkhoo, Mitra Mehrabani, Bagher Amir-Heidari, Ahmad Reza Shahverdi, **Mojtaba Shakibaie** (2014) Antioxidant and cytotoxic effect of biologically synthesized selenium nanoparticles in comparison to selenium dioxide. Journal of Trace Elements in Medicine and Biology 28, 75-79.
- 11- Saied Soflaei, Abdolhossein Dalimi, Amir Abdoli, Mahdi Kamali, Vahid Nasiri , **Mojtaba Shakibaie**, Mahdi Tat (2014) Anti-leishmanial activities of selenium nanoparticles and selenium dioxide on *Leishmania infantum*. Comp. Clin. Pathol. 23 (1), 15-20.
- 12- **Mojtaba Shakibaie**, Maryam Moazeni, Zohre Niazadeh-Najafi, Sassan Rezaie, Mohsen Amini, Ahmad Reza Shahverd (2013) Fabrication of novel menthol-coated selenium nanoparticles and their antifungal activity against dermatophyte isolates . Mikologia Lekarska 20 (2), 80-84.
- 13- Mehdi Ansari-Dogaheh, Fariba Sharififar, Ali mohammad Arabzadeh, **Mojtaba Shakibaie**, Mahnaz Heidarbeigi (2013) Inhibitory effect of a standard extract of *Zhumeria majdae* Rech.f. and Wendelbo. against *Herpes simplex-1* virus. J Med Sci 13 (8), 755-760.
- 14- Forootanfar H, **Shakibaie M**, Bagherzadeh Z, Aghaie-Khozani M, Nafissi-Varcheh N, Monsef- Esfahani HR, Faramarzi MA (2013) The removal of p-chlorophenol in aqueous cultures with free and alginate-immobilized cells of the microalga *Tetraselmis suecica*. J Appl Phycol 25, 51–57.
- 15- Zahra Bahri-Kazempour, Khosro Abdi, **Mojtaba Shakibaie**, Hamid Forootanfar, Hossein Attar, Ahmad Reza Shahverdi (2013) Synthesis and antibacterial activity of a Fe₃O₄-AgCl nanocomposite against *Escherichia coli*. Toxicological & Environmental, Chemistry, 95 (1), 118-26.
- 16- **Mojtaba Shakibaie**, Ahmad Reza Shahverdi, Mohammad Ali Faramarzi, Gholam Reza Hasanzadeh, Hamid Reza Rahimi, Omid Sabzevari (2013) Acute and subacute toxicity of novel biogenic selenium nanoparticles in mice. Pharmaceutical Biology, 51 (1), 58-63.
- 17- Arabzadeh AM, Ansari-Dogahe M, Sharififar F, **Shakibaie M**, Heidarbeigi M (2013) Anti *Herpes simplex-1* activity of a standard extract of *Zataria multiflora* Boiss. Pakistan Journal of Biological Science, 16(4), 180-84.
- 18- Nasibeh Beheshti, Saied Soflaei, **Mojtaba Shakibaie**, Mohammad Hossein Yazdi, Fatemeh Ghaffarifar,, Abdolhossein Dalimi, Ahmad Reza Shahverdi (2013)

Efficacy of biogenic selenium nanoparticles against *Leishmania major*: In vitro and in vivo studies. *J Trace Elem Med Bio* 27(3), 203-207.

- 19- Bijan Zare, Mohammad Ali Faramarzi, Zargham Sepehrizadeh, **Mojtaba Shakibaie**, Sassan Rezaie, Ahmad Reza Shahverdi (2012) Biosynthesis and recovery of rod-shaped tellurium nanoparticles and their bactericidal activities. *Materials Research Bulletin*. 47 ,3719–725.
- 20- Saied Soflaei, Abdolhossein Dalimi, Fatemeh Ghaffarifar, **Mojtaba Shakibaie**, Ahmad Reza Shahverdi, Mohsen Shafiepour (2012) In Vitro Antiparasitic and Apoptotic Effects of Antimony Sulfide Nanoparticles on *Leishmania infantum*. *Journal of Parasitology Research Article ID 756568*, 7 pages, doi:10.1155/2012/756568.
- 21- Abbas Pardakhty, Mojtaba Shakibaie, Hamid Daneshvar, Ali Khamesipour, Tayebe Mohammadi-Khorsand, Hamid Forootanfar (2012) Preparation and evaluation of niosomes containing autoclaved *Leishmania major*: a preliminary study. *Journal of Microencapsulation* 29(3), 219-24.
- 22- Gholam Ali Kojouri, Samane Jahanabadi, **Mojtaba Shakibaie**, Ali Mohammad Ahadi, Ahmad Reza Shahverdi (2012) Effect of selenium supplementation with sodium selenite and selenium nanoparticles on iron homeostasis and transferrin gene expression in sheep: A preliminary study. *Research in Veterinary Science* 93(1), 275-278.
- 23- Kamyar Mollazadeh-Moghaddam, Bardia Varasteh Moradi, Reza Dolatabadi-Bazaz, **Mojtaba Shakibaie** , Ahmad Raza Shahverdi (2011) An Enhancing Effect of Gold Nanoparticles on the Lethal Action of 2450 MHz Electromagnetic Radiation in Microwave Oven. *Avicenna Journal of Medical Biotechnology* 3(4), 195-200.
- 24- Moshafi M, Forootanfar H, Ameri A, **Shakibaie M**, Dehghan-Noudeh, Razavi M (2011) Antibacterial activity of *Bacillus* sp. Strain FAS1 isolated from soil. *Pak. J. Pharm. Sci* 24(3), 269-275.
- 25- **Shakibaie M**, Shahverdi AR, Forootanfar H, Mollazadeh Moghaddam K, Faramarzi MA (2010) Green synthesis of gold nanoparticles by the marine microalga *Tetraselmis suecica*. *Biotechnol. Appl. Biochem* 57, 71–75.
- 26- **Shakibaie M**, Khorramizadeh MR, Faramarzi MA, Sabzevari O, Shahverdi AR (2010) Biosynthesis and recovery of selenium nanoparticles and the effects on matrix metalloproteinase-2 expression. *Biotechnol. Appl. Biochem* 56,7-15.
- 27- Parisa Jafari Fesharaki, Pardis Nazari, **Mojtaba Shakibaie**, Sassan Rezaie, Maryam Banoe, Mohammad Abdollahi, Ahmad Reza Shahverdi (2010) Biosynthesis of selenium nanoparticles using *Klebsiella pneumoniae* and their recovery by a simple sterilization process. *Brazilian Journal of Microbiology* 41: 461-466.

- 28- Khorramizadeh MR, Esmail-Nazari Z, Zarei-Ghaane Z, **Shakibaie M**, Mollazadeh-Moghaddam K, Iranshahi M, Shahverdi AR (2010) Umbelliprenin-coated Fe₃O₄ magnetite nanoparticles: Antiproliferation evaluation on human Fibrosarcoma cell line (HT-1080). *Materials Science and Engineering C* 30: 1038–1042.
- 29- Seyed Naser Ostad, Shahrzad Dehnad, Zeinab Esmail Nazari, Shohreh Tavajohi Fini, Narges Mokhtari, **Mojtaba Shakibaie**, Ahmad Reza Shahverdi (2010) Cytotoxic Activities of Silver Nanoparticles and Silver Ions in Parent and Tamoxifen-Resistant T47D Human Breast Cancer Cells and Their Combination Effects with Tamoxifen against Resistant Cells. *Avicenna Journal of Medical Biotechnology* 2(4),187-196.
- 30- Emad al din Haratifar, Hamid Reza Shahverdi, **Mojtaba Shakibaie**, Kamyar Mollazadeh Moghaddam, Mohsen Amini, Hojatollah Montazeri, and Ahmad Reza Shahverdi (2009) Semi-Biosynthesis of Magnetite-Gold Composite Nanoparticles Using an Ethanol Extract of *Eucalyptus camaldulensis* and Study of the Surface Chemistry, *Journal of Nanomaterials*; Article ID 962021, 5 pages.

33 Genes submission to GenBank of NCBI

Theses:

- 2005 "Preparation and evaluation of the niosomes containing autoclaved *Leishmania major*" for Pharm.D. degree.
- 2009 "Isolation and identification of a bacterium capable of producing selenium nanoparticles, characterization of the nanoparticles, determination of their LD₅₀, and evaluation of their effects on matrix metalloproteinase type-II" for Ph.D. degree.

Interests:

Swimming, Movie, Jogging,

References:

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