

Curriculum vitae

Shima Haj Mohamad Ebrahim Ketabforoosh

(Pharm.D., Ph.D. in Medicinal Chemistry)

Assistant professor, faculty of pharmacy, Alborz University of Medical science, Karaj, Iran

Personal Information

Gender: Female

Nationality: Iranian

Marital Status: married

Contact Information

Address: Faculty of pharmacy, Shora boulevard, Karaj, Iran

Phone: 02632567175

E-mail: Ketabforoosh61@yahoo.com or sh.ketabforoush@abzums.ac.ir

Education/Degree

- 2006 to 2013:** **Ph.D. degree in Medicinal Chemistry**
Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran
- Dissertation:** Synthesis and evaluation of cytotoxic effect of new polyphenolic esters in SK-OV-3, HeLa, HT-29 cell lines
- Supervisors:** Prof. Farzad Kobarfard, Prof. Mohsen Vosoughi, Prof. Ebrahim Azizi
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- 2000-2006:** **Doctor of Pharmacy (Pharm. D.)**
Faculty of Pharmacy, Azad University, Tehran, Iran
- Dissertation:** Synthesis of semicarbazone derivatives as potential anti tuberculosis compounds
- Supervisors:** Prof. Farzad Kobarfard, Dr. Asghar Davoud
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- 1999:** **High School diploma in Experimental Science**
Tehran, Iran

Areas of interest

- Synthesis development of novel heterocyclic structures
- Applying NMR and Mass spectrometry for natural products structure elucidation
- Structure activity relationship studies in order to improve lead compounds effect
- Biological evaluation of natural products ; *in vitro* and *in vivo* models
- Finding novel targets for newly developed chemical scaffolds
- Applying analytical methods in order to measure activity of bioactive molecules

Publications

A. Books:

- Guidance on drug information resources (2011)
- Frequency asked medicinal question in pharmacy (2015)

B. Papers:

- **Shima H. M. Ebrahim Ketabforoosh**, Mohsen Amini, Mohsen Vosooghi, Abbas Shafiee, Ebrahim Azizi, Farzad Kobarfard. Synthesis, evaluation of anticancer activity and QSAR study of heterocyclic esters of caffeic acid. IJPR, (2013), 12 (4): 705-719
- **S.H. M. E. Ketabforoosh**, A.Kheirollahi, M.Safavi, N.Esmati, S.K. Ardestani, S. Emami, L.Firoozpour, A.Shafiee, and A.Foroumadi. Synthesis and Anti-Cancer Activity Evaluation of New Dimethoxylated Chalcone and Flavanone Analogs. Arch. Pharm. Chem. Life Sci., (2014), 347, 1–8.

Co-supervisor in Pharm.D Thesis

- Dr. Fatemeh Layegh
Thesis: Evaluation of Quantitative Structure-Activity Relationship of 1,4-Dihydropyridine Derivatives Containing 4-Imidazolyl Substituents as Calcium Channel Blockers.(2014)
- Dr. Matindokht Naghdali Zanjani
Thesis: Evaluation of Quantitative Structure-Activity Relationship of 1,4-Dihydropyridine Derivatives Containing Methylsulfonylimidazolyl Substituents as Calcium Channel Blockers. (2014)
- Dr. Saba Maleki Kambakhsh
Thesis: Preparation and Characterisation Effect of PLGA-Albumin Nanoconjugate Particles Loaded with Synthesized Caffeic Acid Phenethyl Ester. (2015)

Communications (Conferences)

- **Shima Ketabforoosh**, Farzad Kobarfard, Asghar Davod, Synthesis of semicarbazone derivatives as potential anti tuberculosis compounds, The 10th Iranian Pharmaceutical Science Congress (IPSC), Tehran, August; 2006.
- **Shima Ketabforoosh**, Farzad Kobarfard, Asghar Davod, Synthesis of semicarbazone derivatives as potential anti tuberculosis compounds, The 12th Iranian Pharmacy Students Seminar, Sari, November; 2006.
- **Shima Ketabforoosh**, Mohsen Amini, Mohsen Vosooghi, Abbas Shafiee, Ebrahim Azizi, Farzad Kobarfard Synthesis of heterocyclic esters of caffeic acid using Mitsunobu

reaction, The 13th Iranian Pharmaceutical Science Congress (IPSC), Isfahan, September; 2012.

- **Jury member of 16th Iranian Pharmacy Students Seminar**, Tehran, October, 2011.

Experiences

A. Teaching

General Chemistry

Analytical Chemistry

Organic Chemistry

Instrumental Analysis

Medicinal Chemistry

General Chemistry Lab

Analytical Chemistry Lab

Organic Chemistry Lab

B. Professional Skills

- Synthesis new chemical compounds to obtain medical effects 2004-present
- Working as a Pharm. D. in pharmacy 2007-2009
- Working as a consultant and researcher in Drug and Poison Information Center of 13 Aban (DPIC) 2009-2011
- Faculty of Pharmacy, Lorestan University of Medical Sciences Position: Educational Assistant of faculty, (January-April) 2016.
- Faculty of Pharmacy, Lorestan University of Medical Sciences Position: Dean of faculty, April 2016-October 2017.
- The Pharmacy and drug information center of school, Lorestan University of Medical Sciences, Head of the Pharmacy and drug information center of school, (July-October) 2017.
- The educational development office of faculty, Alborz University of Medical Science, Manager of office, January 2018-present.

Laboratory Experiences

Organic Synthesis:

- Synthesis of semicarbazone derivatives as potential anti tuberculosis compounds (2 years).
- Synthesis and evaluation of anticancer activity of new polyphenolic esters in cervical cancer Hela, ovarian carcinoma SKOV3 and Colon HT-29 cell lines (3years).
- Synthesis and cytotoxic activity evaluation of new chalcone and flavanone analogues as apoptosis inducer (2 years).

Skills

A. Instrumental:

- UV/Visible
- IR
- GC
- LC-MS

B. Techniques:

- Some technique in organic synthesis
- Some techniques in isolation & Purification of synthetic & natural compounds
- Some techniques in molecular modeling & Docking & QSAR
- Pharmaceutical testing including (Dissolution, Assay, Disintegration, etc.)

C. General and Chemical Software:

- Matlab
- ChemOffice
- HyperChem

D. Computer skills

Microsoft Office (Word, Excel, Power Point), Endnote Program, SPSS

Complementary courses and certificates

- Workshop on 2D NMR Spectroscopy at Pharmaceutical Sciences Research Center, Tehran University of Medical Sciences, 2nd & 9th September 2008.
- Workshop on Chemometrics principles and its application in drug analysis at Tehran University of Medical Sciences, 5th May-23rd July 2010.

- Training workshop on High performance liquid chromatography at Drug Design Development & Research Center, Tehran University of Medical Sciences, 10th February 2011.
- Training workshop on Gas chromatography at Drug Design Development & Research Center, Tehran University of Medical Sciences, 10th February 2011.
- Training workshop on Mass Spectrometry on GC & LC at Drug Design Development & Research Center, Tehran University of Medical Sciences, 13th February 2011.
- Training workshop on Curriculum at Razi Herbal Medicine Research Center, Lorestan University of Medical Sciences, 23rd & 24th October 2014.
- Training workshop on Scientometrics at Razi Herbal Medicine Research Center, Lorestan University of Medical Sciences, 12th January 2016.
- Training workshop on Scientometrics at Faculty of Pharmacy, Lorestan University of Medical Sciences, 19th May 2016.
- Training workshop on Process writing at Faculty of Pharmacy, Alborz University of Medical Sciences, 14th May 2018.
- Training workshop on MOH resources introduction at Faculty of Pharmacy, Alborz University of Medical Sciences, 11th June 2018.
- Training workshop on Prezi Presentation at Faculty of Pharmacy, Alborz University of Medical Sciences, 8th October 2018.
- Training workshop on Teaching Techniques at Farabi Hall, Alborz University of Medical Sciences, 15th July 2018.

Language command

- Persian: native
- English: Good knowledge of written and oral language

Membership

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| • Medical Council I.R. Iran | October 2006 till present |
| • Iranian pharmaceutical association | October 2003 till present |