

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

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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)
- Advanced pharmacognosy(2024)

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.
- Siavash Salek Soltani, Mostafa Golshani, Setareh Moghimi, S Morteza F Farnia, **Shima HME Ketabforoosh**, Tahmineh Akbarzadeh, Alireza Foroumadi. Green Decarboxylative Aminoalkylation of Coumarin-3-Carboxylic Acids. *ChemistrySelect*, (2019), 46(4): 13695-13697
- Aram Faraji, Rasoul Motahari, Zaman Hasanvand, Tayebbeh Oghabi Bakhshaiesh, Mahsa Toolabi, Setareh Moghimi, Loghman Firoozpour, Mohammad Amin Boshagh, Roya Rahmani, **Shima HME Ketabforoosh**, Hamid Reza Bijanzadeh, Rezvan Esmaeili, Alireza Foroumadi. Quinazolin-4 (3H)-one based agents bearing thiadiazole-urea: Synthesis and evaluation of anti-proliferative and antiangiogenic activity. *Bioorganic Chemistry*, (2021), 108, 104553.
- Mahsa Toolabi, Fatemeh Safari, Adileh Ayati, Parnian Fathi, Setareh Moghimi, Somayeh Salarinejad, Roham Foroumadi, **Shima HME Ketabforoosh**, Alireza Foroumadi. Synthesis of novel 2-acetamide-5-phenylthio-1, 3, 4-thiadiazole-containing phenyl urea derivatives as potential VEGFR-2 inhibitors. *Archiv der Pharmazie*, (2022), 355(3), 2100397.
- Soheila Seyfi, Somayeh Salarinejad, Setareh Moghimi, Mahsa Toolabi, Nastaran Sadeghian, Burak Tüzün, Loghman Firoozpour, **Shima HME Ketabforoosh**, Parham Taslimi, Alireza Foroumadi. Synthesis, biological activities, and molecular docking studies of triazolo[4,3-*b*]triazine derivatives as a novel class of α -glucosidase and α -amylase inhibitors. *Archiv der Pharmazie*, (2024), e2300628

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-April 2022.
- Head of department of medicinal chemistry-pharmacognosy, Alborz University of Medical Science, May 2024-present

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

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 |