

## Curriculum Vitae

### Personal Informations:

**Elham jafari**, Pharm D, Ph.D (Medicinal chemistry)

Assistant Professor of Medicinal chemistry, Faculty of Pharmacy, Isfahan University of Medical Sciences, Isfahan, Iran,

**Address:** Department of Medicinal Chemistry and Isfahan Pharmaceutical Sciences

Research Center, School of Pharmacy and Pharmaceutical Science, Isfahan University

of Medical Sciences, Isfahan, I.R.Iran.

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### Education:

#### 1998 -2004: Pharm. D

School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, Isfahan, Iran

**Pharm.D dissertation titled as:** "*Preparation and evaluation of sustained release matrix tablets of terbutalin sulfate*". **Supervised by:**

Dr. Varshosaz .J and Dr. Emami J: (PhD, Department of Pharmaceutics, School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences)

#### Sep 2005-2011: Ph.D course of Medicinal Chemistry

Department of Medicinal Chemistry, School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, Isfahan, Iran

**Ph.D thesis titled as:** *Synthesis and biological evaluation of novel 4-(3H)-quinazolinone derivatives* **Supervised by:**

Dr Hassanzadeh F and Dr Khodarahmi G.A (Ph.D, Department of Medicinal Chemistry, faculty of pharmacy, Isfahan University of medical science, Isfahan, Iran).

Dr Hakimelahi G.H (Ph.D, Institute of chemistry, Academia Sinca, Nankang, Taipie, Taiwan)

Dr Abedi D, (Ph.D, Department of microbiology, faculty of pharmacy, Isfahan University of medical science, Isfahan, Iran.

**Membership activities:**

-Medical Council of Islamic Republic of Iran, Since 2004

**Educational activities**

-Cell culture lab setup in biochemistry department (September 2010)

***Journal and congress reviewer***

1.12<sup>th</sup> Iranian Pharmaceutical Students Seminar (in medicinal chemistry Team)

November 2006, Sari, Iran

2. Research in Pharmaceutical Sciences journal

3. Journal of reports in pharmaceutical Sciences.

4.13<sup>th</sup> Congress of Iranian pharmaceutical sciences (IPSC 2012), 3-6 september, Isfahan, Iran.

**Awards and Honors:**

Best pharmacy school students in Pharm.D course

Top student in comprehensive test of basic sciences (2000).

Top Student in PhD course

Top student in the comprehensive board Exam of medicinal chemistry, July 2007,

Member of center of talent student development (2001-2011).

Selected Researcher in research week in Isfahan University of Medical Sciences (2011).

**Teaching Assignments:**

<b>Year/Semester</b>	<b>Course title</b>	<b>Role</b>
Fall 2005	Analytical chemistry	Assistant
Spring2006	Physico-chemical control	Assistant
Spring2006	Chemistry	Assistant
Fall 2006	Physico-chemical control	Assistant
Fall2007	Practice Pharmacy	Lecturer
Spring2008	Practice Pharmacy	Lecturer
Fall 2013	Organic chemistry	Lecturer and assistant
2014	Homology modeling	Lecturer
2015	General chemistry (practical)	Assistant professor
2016	Organic chemistry	Assistant professor
2016	General chemistry	Assistant professor
2017	Organic chemistry and medicinal chemistry	Assistant professor
2018	Medicinal chemistry & general chemistry	Assistant professor
2019	Organic chemistry and medicinal chemistry	Assistant professor
2020	Organic chemistry and medicinal chemistry	Assistant professor
2021	Organic chemistry and medicinal chemistry	Assistant professor

**Publications:****A: papers:**

1. Varshosaz J, Emami J, **Jafari.E**, Comparison of hydrophilic natural gums and cellulosic polymers in formulation of sustained-release matrix tablets of terbutalin sulfate. Research in Pharmaceutical Sciences (RPS). 2006, 1: 30-39
2. **Jafari E**, Khodarahmi GA, Hakimelahi GH , Tsai FY and Hassanzadeh F. Synthesis of some new tricyclic 4(3*H*)-quinazolinone derivatives. Research in Pharmaceutical Sciences (RPS). 2011; 6(2): 93-100
3. Khodarahmi GA, **Jafari E** , Hakimelahi G.H , Abedi D, Rahmani Khajouei M and Hassanzadeh F. Synthesis of Some New Quinazolinone Derivatives and

Evaluation of Their Antimicrobial Activities. Iranian Journal of Pharmaceutical Research(IJPR) 2012,11(3):789-797.

4. Hassanzadeh F, **Jafari E** , Hakimelahi GH , Rahmani Khajouei M, Jalali M. ,Khodarahmi GA . Antibacterial, antifungal and cytotoxic evaluation of some quinazolinone derivatives. Research in Pharmaceutical Sciences. (RPS). 2012; 7(2):87-94.

5. Hassanzadeh F, Rahmani Khajouei M, Hakimelahi GH , **Jafari E**, Khodarahmi GA.Synthesis of some new 2, 3-disubstituted 4(3H)-quinazolinone derivatives. Research in Pharmaceutical Sciences. 2012; 7(1): 23-30.

6. Khodarahmi G A , Rahmani Khajouei M , Hakimelahi GH , Abedi D, **Jafari E**,Hassanzadeh F. Antibacterial, antifungal and cytotoxic evaluation of some new 2,3-disubstituted 4(3H)-quinazolinone derivatives. Research in Pharmaceutical Sciences.(RPS). 2012; 7(3): 151-158.

7. Alireza Abed, Golnaz Vaseghi , **Elham Jafari**, Ehsan Fattahian, Nima Babadiashar, Mona Abed. Echium Amoenum Fisch. Et Mey: A Review on its Pharmacological and Medicinal Properties. Asian Journal of Medical and Pharmaceutical Researches. 2014;4(1): 21-23.

8. **Elham Jafari**, Sasan Andalib, Alireza Abed, Mahmoud Rafieian-Kopaei, Golnaz Vaseghi, Neurological, antimicrobial, antioxidant, chemotherapeutic, and antidiabetic properties of *Salvia Reuterana*: A mini review. Published in Avicenna Journal of Phytomedicine. 2015, 5, (1):10-16.

9. **Elham Jafari**, Mrzieh Rahmani, Farshid Hassanzadeh, Gholam hossein Hakimelahi, Ghadam ali Khodarahmi. Quinazolinone and quinazoline derivatives: recent structures with potent antimicrobial and cytotoxic activities. Published in Research in Pharmaceutical Sciences.2016, 11(1):1-14.

10. Alireza Abed and Azadeh Eshraghi, **Elham Jafari**, Golnaz Vaseghi Assessment of adverse drug reaction due to cancer chemotherapy in a teaching

oncology hospital in Isfahan, Central of Iran. Journal of review recent clinical trial. 2015

11- Golnaz vaseghi, **Elham Jafari** (Correspondeing author), Farshid Hassanzadeh, Shaghayegh Haghjoo-Javanmard, Nasim Dana, Mahmoud Rafieian-kopaei. Cytotoxic evaluation of some fused pyridazino- and pyrrolo-quinazolinones derivatives on melanoma and prostate cell lines. Advanced Biomedical Research. 2017;6:76.

12. golnaz vaseghi, nasim Dana, Mohammad Hasan Tajaddini, shaghayegh haghjooy javanmard, **Elham Jafari**, Alireza Abed. Cannabis sativa extract reduces cytoskeletal associated protein in breast cancer Cell line. Iranian journal of cancer prevention.

13. **E. Jafari**, T. Mohammadi, A. Jahanian-Najafabadi, F. Hassanzadeh. Synthesis and antimicrobial evaluation of some 2, 5 disubstituted 1, 3, 4-oxadiazoles derivatives. Research in Pharmaceutical Sciences . 2017; 12(4): 330-336

14.**E. Jafari**, N. Thaghi jarah, A. Jahanian-Najafabadi, S. Pooriran, F. Hassanzadeh , Sedighe Sadeghian-Rizi. Synthesis and evaluation of antimicrobial activity of new cyclic imides derived from anhydride phthalic and succinice. Research in Pharmaceutical Sciences, December 2017; 12(6): 526-534.

15. Farshid Hassanzadeh, **Elham Jafari**(corresponding author). Cyclic Imides Derivatives: as a promising scaffold for the synthesis of antimicrobial agents : A review. Journal of Research in Medical Sciences. 2018:1-7.

16. **Elham Jafari**, Ali Gheysarzadeh, Karim Mahnam, Rezvan Shahmohammadi, Amir Ansari , Hadi Bakhtyari, and Mohammad Reza Mofid. *In silico* interaction of insulin-like growth factor binding protein 3 with insulin-like growth factor 1. Research in Pharmaceutical Sciences, August 2018; 13(4): 332-342.

17. Mahmoud Mirzaei, Kun Harismah, **Elham Jafari**, Oğuz Gülseren and Ali Shokuhi Rad.

Functionalization of  $(n, 0)$  CNTs ( $n = 3-16$ ) by uracil: DFT studies. Eur. Phys. J. B (2018) 91: 14

18. Ali Zare, Mahmoud Mirzaei\*, Mahboubeh Rostami, Elham Jafari. Photosensitization of phthalocyanine for singlet oxygen generation in photodynamic therapy applications. Journal of Medicinal and Chemical Sciences 3 (2020) 55-59

19. Farshid Hassanzadeh, Hojjat Sadeghi-Aliabadi, Elham Jafari, Azadeh Sharifzadeh,

, and Nasim Dana. Synthesis and cytotoxic evaluation of some quinazolinone- 5-(4-chlorophenyl) 1, 3, 4-oxadiazole conjugates. Research in Pharmaceutical Sciences, October 2019; 14(5): 408-413.

19. Farshid Hassanzadeh, Hojjat Sadeghi-Aliabadi, Shadan Nikooei, Elham Jafari and Golnaz Vaseghi. Synthesis and cytotoxic evaluation of some derivatives of triazole-

quinazolinone hybrids. Research in Pharmaceutical Sciences, April 2019; 14(2): 130-137

20. Hamidreza Nazemi, Mahmoud Mirzaei, Elham Jafari. Antidepressant Activity of Curcumin by Monoamine Oxidase–A Inhibition. Advanced Journal of Chemistry, Section B 1 (2019) 3–9.

21. Farshid Hassanzadeh, Elham Jafari, Mozhgan Saeedi, Sedigheh Saberi. Synthesis and Evaluation of Thiadiazole-based Antileishmanial Agents. Journal of Reports in Pharmaceutical Sciences | Volume 9 | Issue 2 | 2020.

22. Farshid Hassanzadeh, Elham Jafari, Mohammadreza Zarabi, Ghadamali Khodarahmi, and Golnaz Vaseghi. Synthesis, cytotoxic evaluation, and molecular docking studies of some new 1, 3, 4-oxadiazole-based compounds. Research in Pharmaceutical Sciences, October 2020; 15(5): 454-462.

23. Farshid Hassanzadeh, Elham Jafari\*, Faezeh Shojaei, and Hojjat Sadeghi-Aliabadi. Synthesis and cytotoxic activity evaluation of some new 1, 3, 4-oxadiazole, 1,3,4-thiadiazole and 1,2,4-Triazole derivatives attached to phthalimide. Research in Pharmaceutical Science 2021 Dec

24. Farshid Hassanzadeh, Elham Jafari, Nahal Khayambashi, Valiollah Hajhashemi. Synthesis and anti-inflammatory effect evaluation of 1,3 substituted isatin derivatives. Thai Journal of Pharmaceutical Sciences. 2021

#### **B: Abstracts in International Congress:**

1. Elham Jafari, Farshid Hassanzadeh, Ghadamali Khodarahmi, "SYNTHESIS OF SOME FUSED QUINAZOLINONE DERIVATIVES"

4th international meeting on medicinal and pharmaceutical chemistry and  
6th international symposium on pharmaceutical chemistry, September 30-  
October 2, 2010, Ankara, Turkey.

**C: Abstracts in Iranian Congress:**

1. Shahtalebi. M, Daneshamoz. S, Jafari. E, Godarzi. S, Preparation of emulsion by Phase inversion temperature method (PIT) and role of concentration of surfactant mixtures. Poster presentation, 7th Iranian Pharmaceutical Students Seminar, March 2001, Isfahan, Iran.
2. Varshosaz.J, Emami.J, Jafari.E, Formulation of sustained release matrix tablets of Dimethyl fumarate for treatment psoriasis disease. Poster presentation, 9<sup>th</sup> Iranian Pharmaceutical Students. May 2003, Tabriz, Iran
3. Varshosaz.J, Emami.J, Jafari.E, Preparation and evaluation of sustained release matrix tablets of terbutalin sulfate, using hydrophilic natural gum. Poster presentation, 10th Iranian Pharmaceutical Students Seminar, October 2004, Mashhad, Iran
4. Varshosaz J, .Emami J, Jaffari.E, Comparison of hydrophilic natural gums and cellulosic polymers in formulation of sustained-release matrix tablets of terbutalin sulfate. Poster presentation. 10th Iranian Congress of Pharmaceutical Sciences, August 2006, Tehran, Iran
5. Hassanzade F, Jafari E. Supercritical Fluids. "Principle & Applications". Lecture Presentation. School of Pharmacy and Pharmaceutical Sciences, January 2007, Isfahan, Iran
6. Fassihi A, Jafari E, Combinatorial Chemistry." Principle & applications". Lecture Presentation. School of Pharmacy and Pharmaceutical Sciences, March 2008, Isfahan, Iran.
7. Elham jafari, Farshid Hassanzadeh, Ghadamali khodarahmi, Daryoush Abedi, Marzieh Rahmani. "Evaluation of Antibacterial Activity of Some New Cyclic

Quinazolinone Derivatives" The 4th Iranian Congress of Clinical Microbiology, 9-11 Nov, 2010, Isfahan, Iran.

8. Marzieh Rahmani, Farshid Hassanzadeh, Ghadamali Khodarahmi, Daryoush Abedi, Elham Jafari, "Evaluation of Antibacterial Effects of Some New Quinazolinone Derivatives" The 4th Iranian Congress of Clinical Microbiology, 9-11 Nov, 2010, Isfahan, Iran.

9. Marzieh Rahmani, Farshid Hassanzadeh, Ghadamali Khodarahmi, Daryoush Abedi, Elham Jafari, "Evaluation of Antifungal Effects of Some New Quinazolinone Derivatives" The 4th Iranian Congress of Clinical Microbiology, 9-11 Nov, 2010, Isfahan, Iran.

10. Elham Jafari, Farshid Hassanzadeh, Ghadamali Khodarahmi, "Synthesis of new derivatives of quinazolinones" 12th Iranian pharmaceutical sciences congress (IPSC 2010), 2-5 August, Zanzan, Iran.

11. E. Jafari, F. Hassanzadeh, G. Hakimelahi, G. Khodarahmi, M. Jalali. "Antibacterial, antifungal, and cytotoxic evaluation of some quinazolinone derivatives". 13th Iranian pharmaceutical sciences congress (IPSC 2012), 3-6 September, Isfahan, Iran.

12. E. Jafari, G. Khodarahmi, F. Hassanzadeh, G. Hakimelahi, F. Tsai. "Synthesis of some new tricyclic 4(3H)-quinazolinone derivatives". 13th Iranian pharmaceutical sciences congress (IPSC 2012), 3-6 September, Isfahan, Iran.

13. Synthesis and evaluation of antibacterial and antifungal activity of new cyclic imides derived from anhydride phthalic, succinic and maleic. 1th Iranian Medicinal Chemistry Seminar (IMCS). 17 & 18 February, 2016, Kermanshah, Iran.

14. Prediction 3D structure of IGFBP3 using homology modeling and molecular dynamic. The 2<sup>nd</sup> Conference on Protein and Peptide Sciences, University of Isfahan-27-28 April 2016.

15. Elham Jafari, Tahereh Mohammadi, Ali Jahanian-Najafabadi, and Farshid Hassanzadeh Synthesis and antimicrobial evaluation of some 2,5 disubstituted 1,3,4-oxadiazole derivatives. 15th Iranian pharmaceutical sciences congress (IPSC 2017), October, Hamedan, Iran.



## **Workshops:**

1. Herbal medicin, Barij Essence Company, June 2005
2. Photoshop Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, March 2006
3. Systematic Review Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, November 2006
4. Scientific Writing Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, February 2007
5. Reference Manager Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, March 2007.
6. SPSS Workshop, as Statistical Software, **Medical Education Development Center**, Isfahan University of Medical Sciences, October 2008.
7. Workshop on INLM organized by Isfahan University of medical sciences, Isfahan, Iran, summer 2009.
8. Workshop on Nanomedicine & Nanopharmacy , Isfahan, Iran, summer 2010.
9. Workshop on Automatic Blood Culture, Isfahan, Iran, 9-11 November, 2010.
10. Advance SPSS Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, December 2010.
11. Letter writing Workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, December 2010.
12. Experimental design workshop, 12th Iranian pharmaceutical sciences congress (IPSC 2010), 2-5 august, zanzan, Iran.
13. Purification of chiral compounds by HPLC, 12th Iranian pharmaceutical sciences congress (IPSC 2010), 2-5 august, zanzan, Iran.
14. UPLC workshop, School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, 2011.

15. PMDR workshop, Isfahan University of Medical Sciences, Isfahan, Iran, 2011
16. "Analyze of pesticides in foods" Workshop 13th Iranian pharmaceutical sciences congress (IPSC 2012), 3-6 September, Isfahan, Iran.
17. Molecular Modeling Workshop, School of Pharmacy and Pharmaceutical Sciences, Kermanshah University of Medical Sciences. 2016.
18. Research methodology workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, 2015.
19. Preliminary teaching method (level1) workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, 2015.
20. Curriculum workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, 2015.
21. Duties of faculty workshop, **Medical Education Development Center**, Isfahan University of Medical Sciences, 2015.

**Qualifications and Technical Skills:**

1. Interpretation of <sup>1</sup>HNMR and <sup>13</sup>CNMR
2. Operation of FTIR apparatus
3. Interpretation of IR spectra
4. Interpretation of Mass spectra
5. Some techniques in organic synthesis
6. Synthesis, working up and purification of chemical compounds using preparative TLC, column chromatography and recrystallization
7. UV-Vis spectroscopy
8. Application of micro dilution for evaluation of antibacterial and antifungal activities of chemical compounds
9. Application of cell culture methods for evaluation of cytotoxicity of chemical compounds

10. Application of some computational chemistry soft wares including ofHyperchem, Dragon, Gaussian, Matlab, Goromacs, Modeller and docking.

**Research interest:**

1. Organic synthesis
2. Synthesis of heterocyclic compounds
3. Molecular modeling and computer aided drug design

**Computer Skills:**

Excel, Word, Photoshop, SPSS, PowerPoint, Reference manager, Endnote

**Languages:**

Persian: Original Language

English: Writing, reading and speaking (document of international English language

test IELTS (academic), MCHE.

Arabic: Writing, reading