



Kerman University
of Medical Sciences

Curriculum Vitae
First Name last name (Pharm. D., Ph.D.)
Update (25.August.2020)



Name: Abdolreza, Hassanzadeh

Place & Date of Birth: 25.March.1971, Gerash, Fars Province, Iran.

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Education:

➤ **Ph.D. (2002-2006)**

Faculty of Pharmacy, The University of Manchester, UK

➤ **Pharm. D. (1990-1997)**

Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

➤ **Diploma (1985-1999); (in Experimental Science)**

Shahid Jafari's High School, Gerash, Fars province, Iran

Ph. D. Thesis:

- 2006 Towards erythromycins without side effects: structural studies and biological properties of erythromycin derivatives

Pharm. D. Thesis:

- 1997 Synthesis and antifungal activity evaluation of some new 2-sulfonyl-5-sulfinyl (sulfonyl)-1,3,4-thiadiazole derivatives

Societies Memberships:

- Pharmaceutics Research Center, Institute of Neuropharmacology, Kerman University of Medical Sciences (2005- present)
- Dean of Medicinal Chemistry Department , Kerman University of Medical Sciences, Kerman, Iran (2011-2019)
- Students Research Committee, Kerman University of Medical Sciences, Kerman, Iran (2007)
- Research Committee for Force Major Events, Kerman University of Medical Sciences (2006-2007)
- Iranian Medical Council (2000 to present)

Honoraria:

- Membership of Cambridge Structural Database System (2004-2006)

Participate as Reviewer in the following journals:

- Iranian Journal of Pharmaceutical Research
- Journal of Strides in Development of Medical Education
- Arabian Journal of Chemistry
- Journal of Military Medicine

Academic skills:

- NMR spectroscopy
- QSAR Studies

Thesis advisor:

- 2015 Study of properties of multiple sclerosis (M.S) drugs and their interaction with carbon nanotubes

Thesis Supervisors:

- 2011 An *in vitro* study of the anti acetylcholinesterase and antioxidant activities of the essential oil and the major fractions from Ethanolic extract of *Salvia rhytida* Benth
- 2012 The study of the effect of deuterium on the growth of *Aspergillus fumigatus* and *Candida albicans*
- 2012 A preliminary study of the effect of water with different deuterium content on the growth of some bacterial species
- 2012 Synthesis of novel 2-[(5-nitro-thiophen-2-yl)-[1,3,4]thiadiazol-2-ylthio]-1-piperazin-4-aryl substituted ethanone derivatives as potential antituberculosis agents
- 2012 The evaluation of co-operation of tuberculosis infected patients in regard to the use of isoniazid, rifampin & pyrazinamide in Kerman
- 2012 Assessment of Quantitative Structure-Antitubercular Activity Relationship of Thiosemicarbazone Derivatives by Artificial Neural Network
- 2013 Synthesis of Novel 5-(5-Nitrofuran/5-Nitrothiophene-2-yl)-1,3,4-Thiadiazol as Potential Antimicrobial Compounds
- 2013 The study of the effects of Deuterium Depleted Water (DDW) and Heavy Water (HW) alone or in combinations with Arsenic Trioxide, Doxorubicin, Celecoxib and Indomethacin on the Cytotoxicity, Apoptosis, MAPKs Pathways and COX-2 Pathway in the Hep - G2 and A549 cell lines
- 2013 Synthesis of some thiazole hydrazine and thiazole acetamide derivatives as potentially antimicrobial agents
- 2014 Synthesis and antibacterial evaluation of some new 4H-chromene derivatives
- 2018 Knoevenagel synthesis and assignment of novel benzylidene ethylcyano acetate derivatives with potential photoprotective activity
- 2018 Synthesis of some thiosemicarbazone derivatives and evaluation of their cytotoxicity on the U87, MCF7, A549, 3T3 and Huvec cell lines

Attendance in Congress:

1. The first symposium on: "The biological effects of deuterium depleted water: a new Insight into the area of treatment ", 5 May 2011, School of Pharmacy, Kerman, Iran
2. 11th Iranian Pharmaceutical Sciences Conference (August 18-21, 2008, Kerman, Iran)
3. 9th Iranian Congress of Microbiology (March 5–7, 2008, Kerman, Iran)

4. Continuing Professional Development- Better NHS Trial Conference (March 6-7, 2006, Manchester, UK)
5. Intellectual Property and Communicatiuon- Good Practice Training Series (23rd Jun. 2006, Manchester, UK)
6. The 10th RSC-SCI Joint Meeting on Heterocyclic Chemistry (June 9-12, 2006, Harrogate, UK)

Articles: (sort: new)

1. Mousavi M, Daryae F, Ranjbaran O, Mohseni B, Taheri S, **Hassanzadeh A**. Quantitative Structure-Activity Relationship Study onThiosemicarbazone Derivatives as Antitubercular agents Using Artificial Neural Network and Multiple Linear Regression. J Mazandaran Univ Med Sci. 2019; 30 (184): 106-118 (Persian).
2. Mandegary A, Sharif E, Rasooli R, **Hassanzadeh A**. The effect of deuterium depleted/enriched water on the growth of A549 and HepG2 cell lines. J Ker Uni Med Sci. 2019; 26(5): 357-367.
3. Sohrevardi SM, Sarrafzadeh F, Khosravi A, **Hassanzadeh A**. Assessment of adherence to antituberculosis drug regimen among patients receiving isoniazid, rifampin and pyrazinamide: Kerman, Iran. J Shahid Sadoughi Uni Med Sci 2019; 27(3): 1395-1404 (Persian).
4. **Hassanzadeh A**, Mandegari A, Sharif E, Rokhsana R, Mohammadnejad R, Masoumi-Ardekani Y. Cyclooxygenase inhibitors combined with deuterium-enriched water augment cytotoxicity in A549 lung cancer cell line via activation of apoptosis and MAPK pathways. Iran J Basic Med Sci, 2018, 21, 1-9.
5. Pourshojaei Y, Nikzad M, Eskandari K, Darijani MN, **Hassanzadeh A**, Faghih-Mirzaei E and Asadipour A. Ultrasound-assisted and Efficient Knoevenagel Condensation Reaction Catalyzed by Silica Sodium Carbonate Nanoparticles. Croat. Chem. Acta 2018, 91(1), 19-28.
6. Bhadra PK, **Hassanzadeh A**, Arsic B, Allison D G, Gareth A. Morris GA and Barber J, Enhancement of the properties of a drug by mono-deuteration: reduction of acid-catalysed formation of a gut-motilide enol ether from 8-deuterio-erythromycin B. Org. Biomol. Chem., 2016, 14, 6289-6296.
7. Mehrabani M, Sharififar F, **Hassanzadeh A**, Jalili L and Assadi-Khanuki A, Anticholinesterase and antioxidant activity of the essential oil and different fractions of Salvia rhytidea Benth., Inventi Impact: Ethnopharmacology , 2013, 2, 1-5.
8. Tyson P, **Hassanzadeh A**, Mordi M N, Allison D A, Marquez V and Barber J, Erythromycin B: conformational analysis and antibacterial activity, Med Chem Commun. 2011, 2, 331-336.
9. **Hassanzadeh A**, Barber J, Morris GA, Gorry PA, Mechanism for the degradation of erythromycin A and erythromycin A 2'-ethyl succinate in acidic aqueous solution, J Phys Chem A. 2007 Oct 11;111(40):10098-104.
10. **Hassanzadeh A**, Gorry PA, Morris GA, Barber J, Pediatric erythromycins: a comparison of the properties of erythromycins A and B 2' -ethyl succinates, J Med Chem. 2006 Oct 19;49(21):6334-42.
11. **Hassanzadeh A**, Helliwell M, Barber J, Determination of the stereochemistry of anhydroerythromycin A, the principal degradation product of the antibiotic erythromycin A, Org Biomol Chem. 2006 Mar 21;4(6):1014-9.
12. Foroumadi A, Emami S, **Hassanzadeh A**, Rajaei M, Sokhanvar K, Moshafi MH, Shafiee A, Synthesis and antibacterial activity of N-(5-benzylthio-1,3,4-thiadiazol-2-yl) and N-(5-benzylsulfonyl-1,3,4-thiadiazol-2-yl)piperazinyl quinolone derivatives, Bioorg Med Chem Lett. 2005 Oct 15;15(20):4488-92.

Teaching Experiences:

1. Medicinal Chemistry I, II
2. Organic Chemistry I,II
3. Instrumental Analysis I
4. General Chemistry

Faculty of Pharmacy, Kerman University of Medical sciences, Kerman, Iran

Interests:

- Deuteriated compounds and their biological activity
- The effect of deuterium depleted / enriched water on cell lines

Hobbies:

- Reading (Historical, religious, Social Sciences)