

Curriculum Vitae

Personal Data

Name: Zahra Rezaei

Born: 14.8.1964

Sex: Female

Religion: Islam

Marital Status: Married

Work Address

Department of Medicinal Chemistry, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

P.O.BOX: 71345 Post Code: 71345

Tel: +98(711)- 2424128 Ext.: 259 Fax: +98(711)- 2424126

E-mail: Rezaeiza@sums.ac.ir & rezaeiza@yahoo.com

Educational Background

Ph.D. in Medicinal Chemistry: Faculty of Pharmacy, Isfahan University of Medical Sciences, Isfahan/Iran (1995).

Thesis title: *Study of interaction of propranolol and several NSAID's in protein binding.*

Pharm.D: Faculty of Pharmacy, Isfahan University of Medical Sciences, Isfahan/Iran(1988).

Thesis title: *Formulation of a herbal drug as hypnotic and sedative.*

Academic Positions

1995-present Instructor of Medicinal Chemistry for undergraduate students of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

1995-present Instructor of pharmaceutical analysis for undergraduate students of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

1992-1995 Instructor of organic chemistry and medicinal chemistry for undergraduate students of Pharmacy, Isfahan University, Isfahan

1996-2002 Head Dean Research of School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

2004-2011 Head Dean Research of School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

2015-2017 Head Dean Education of School of Pharmacy, Shiraz University of Medical Sciences

Experiences

Protein Binding Studies

Drug Analysis

Synthesis of Imidazole and Triazole Derivatives

Synthesis of Steroid Derivatives

Molecular Modeling

Membership

Membership of Iranian Association of Pharmaceutical Specialist

Publication

Masood Fereidoonnehzad, zeinab Faghiih, Ayyub Mojaddami, **Zahra Rezaei**, Amirhossein Sakhteman, A comparative QSAR analysis, molecular docking and PLIF studies of some N-arylphenyl-2,2-dichloroacetamide analogues as anticancer agents, IJPR, 2017, In press

Mahdieh Ghorbani, Ali Gohari, Amirhossein Sakhteman, **Zahra Rezaei** IN SILICO ANALYSIS OF DRUG RESISTANCE IN HIV-REVERSE TRANSCRIPTASE INHIBITORS, Acta Medica Mediterranea, 2017, 33: 745

Hossein Sadeghpour, Soghra Khabnadideh, Kamiar Zomorodian, Keyvan Pakshir, Khadijeh Hoseinpour, Nabiollah Javid, Ehsan Faghiih-Mirzaei, **Zahra Rezaei**, Design, Synthesis, and Biological Activity of New Triazole and Nitro-Triazole Derivatives as Antifungal Agents, Molecule, *Molecules* 2017, 22(7), 1150

Ayyub Mojaddami¹, Amirhossein Sakhteman¹, Masood Fereidoonnehzad², Zeinab Faghiih¹, Atena Najdian³, Soghra Khabnadideh¹, Hossein Sadeghpour¹, and **Zahra Rezaei**, Binding mode of triazole derivatives as aromatase inhibitors based on docking, protein ligand interaction fingerprinting, and molecular dynamics simulation studies, Research in Pharmaceutical Sciences, February 2017; 12(1): 21-30

Zahra Rezaei, Masood Fereidoonnehzad, Zeinab Faghiih, Hossein Sadeghpour, Ayyub Mojaddami, Amirhossein Sakhteman, Comparison of docking procedures and its efficiency for Betasecretase, Aromatase and Pyruvate dehydrogenase kinase inhibitors, Tips, Vol 3, No 1 (2017)

M. Fereidoonnehzad, Z. Faghiih, A. Mojaddami, S. M. H. Tabaei, **Z. Rezaei**, Novel Approach Synthesis, Molecular Docking and Cytotoxic Activity Evaluation of N-phenyl-2,2-dichloroacetamide Derivatives as Anticancer Agents, Journal of Sciences, Islamic Republic of Iran 27(1): 39 - 49 (2016)

Masood Fereidoonnehzad, Zeinab Faghiih, Ayyub Mojaddami, Amirhossein Sakhteman, **Zahra Rezaei**. A Comparative Docking Studies of Dichloroacetate Analogues on Four Isozymes of Pyruvate Dehydrogenase Kinase in Humans, Indian Journal of Pharmaceutical Education and Research | Vol 50 | Issue 2 (Suppl.)| Apr-Jun, 2016

Masood Fereidoonnehzad, Zeinab Faghiih, Elham Jokar, Ayyub Mojaddami, **Zahra Rezaei**, Mehdi Khoshneviszadeh, QSAR, Molecular Docking and protein ligand interaction fingerprint studies of N-phenyl dichloroacetamide derivatives as anticancer agents, Tips, Vol 2, No 2 (2016)

Faghih, Z, Fereidoon nezhad, M, Tabaei, S.M.H, **Rezaei Z**, Zolghadr, A.R. The binding of small carbazole derivative (P7C3) to protofibrils of the Alzheimer's disease and β -secretase: Molecular dynamics simulation studies, *Chemical Physics*, Volume 459, 12 August 2015, Article number 9371, Pages 31-39

Bahador shahriari, **Zahra Rezaei**, Soghra Khabnadideh, Hossein Sadeghpour, Gholam Reza Hatam, Qasem Asgari, Amin Kiani, Fardad Firoozi, Synthesis and Biological Evaluation of Metronidazole Derivatives as Anti-Giardia Agents, *Tips*, Vol 1, No 2 (2015)

Zahra Haghhighijoo, **Zahra Rezaei**, Samaneh Taheri, Meysam Jani, Soghra Khabnadideh, A rapid and convenient method for synthesis of anilinoquinazoline: an improved synthesis of erlotinib derivatives, *Tips*, Vol 1, No 3 (2015)

Faridi, P. **Rezaei Z**, Mohagheghzadeh, A, Hamidpour, M, Morowvat, M.H., Khalaj, A., Ghasemi, Y. Chemical composition and antimicrobial activity of volatile oil of phoenix dactylifera staminate flower spikes, *International Journal of Pharmacognosy and Phytochemical Research* Volume 7, Issue 6, December 2015, Pages 1139-1141

Zahra Rezaei, Akram Jamshidzadeh and Ehsan Sanati, A rapid and sensitive method for the determination of malondialdehyde as its hydralazine derivative in human plasma using high performance liquid chromatography, *Anal. Methods*, 2013, 5, 2995.

Fayeze Samari, Bahram Hemmateenejad, **Zahra Rezaei** and Mojtaba Shamsipur, A novel approach for rapid determination of vitamin B12 in pharmaceutical preparations using BSA- modified gold nanoclusters, *Anal. Methods*, 2012, 4, 4155.

Bahram Hemmateenejad, Mojtaba Shamsipur, Fayeze Samari, Taghi Khayamianc, Malihe Ebrahimi, **Zahra Rezaei**. Combined fluorescence spectroscopy and molecular modeling studies on the interaction between harmalol and human serum albumin. *Journal of Pharmaceutical and Biomedical Analysis* 67–68 (2012) 201–208.

S. Khabnadideh¹, **Zahra Rezaei***, K. Pakshir, K. Zomorodian and N. Ghafari. Synthesis and antifungal activity of benzimidazole, benzotriazole and aminothiazole derivatives. *Research in Pharmaceutical Sciences*, May 2012; 7(2): 65-72.

Ghodratollah Absalan, Yousef Alipour, **Zahra Rezaei** and Morteza Akhond. Determination of enantiomer compositions of propranolol enantiomers by chiral ionic

liquid as a chiral selector and the UV-assisted spectrophotometric method. *Anal. Methods*, 2012, 4, 2283.

Bahri-Najafi R. **Rezaei Z.** Shabab L. Peykanpour M. Preparation and pharmaceuticals evaluation of nicotine mucoadhesive tablet for smoking cessation, *Pharmaceutical Sciences*, 2012, Vol. 18, No.2, 93- 102.

Soghra Khabnadideh, **Zahra Rezaei**, Yones Ghasemi, Nima Montazeri-Najafabadi, Antibacterial Activity of Some Azole Compounds, *Anti-Infective Agents in Medicinal Chemistry*, 2012, 10, 26-33.

Zahra Rezaei, Soghra Khabnadideh, Younes Ghasemi, Masomeh Fadaei, Zeinab Karimi. *Journal of Pharmaceutical Negative Results*, 2011, 2 (2), 78-86.

Zahra Rezaei, Soghra Khabnadideh, Keyvan Pakshir, Kamiar Zomorodian, Setreh Nadali Nadia Mohtashami, Ehsan Faghieh Mirzaei, Design, One-pot Synthesis, and Antibacterial Activity of New α -Aminophosphonates, *International Journal of Medicinal Chemistry*, 2011; 2011-11.

Zahra Rezaei, Soghra Khabnadideh, Kamiar Zomorodian, Keyvan Pakshir, Giti Kashi, Narges Sanagoei, Sanaz Gholami, Design, Synthesis and Antifungal Activity of Some New Imidazole and Triazole Derivatives, *Archiv Der Pharmazie*, 2011, 344 (10), 658–665.

Z. Rezaei, S. Khabnadideh, M.M. Zarshenas, A. Khalili, M.R Jafari, Study of cyproterone derivatives stability and solubility in the presence of hydroxypropyl- β -cyclodextrin: Experimental and molecular modeling studies, *Iranian j Pharmaceutical Sciences*, 2010; 6(3), 185-190.

Soghra Khabnadideh, **Zahra Rezaei**, Soliman Mohammadi Samani, Gholamreza Yarmohammadi, Post Marketing Surveillance on Propranolol and Atenolol Tablets Manufactured in Iran, *Iranian J Pharmaceutical Sciences*, 2010 (2), 83-90.

Keyvan Pakshir, Leila Bahaedini, **Zahra Rezaei**, Manochehr Soseifi, Kamiar Zomorodian, In-vitro Activity of Six Antifungal Drugs Against Clinically Important Dermatophytes, *Jundishapur J Microbiology*, 2009 (2), 158-163.

Zahra Rezaei, Habib Firouzabadi, Nasser Iranpoor, Abbas Ghaderi, Mohammad Reza Jafari, Abbas Ali Jafari, Hamid Reza Zare, Design and one-pot synthesis of α -aminophosphonates and bis(α -aminophosphonates) by iron(III) chloride and Cytotoxic Activity, *European.J.Med.Chem*, 44 (2009) 4266–4275.

Soghra Khabnadideh, **Zahra Rezaei**, Ali khalafinejad, Keyvan Pakshir, Mohammad Javad Heyran, Hesamaldin Shobeyri, Design and synthesis of 2-methyl and 2-methyl-4-nitro- imidazole derivatives as antifungal agents, *Iranian J. Pharmaceu. Sci.* 5, 2009, 31-36.

Bahram Hemmateenejad, **Zahra Rezaei**, Sasan Zaeri, Second-order calibration of excitation–emission matrix fluorescence spectra for determination of glutathione in human plasma, *Talanta*, 79 (2009) 648–656.

Zahra Rezaei, Soghra Khabnadideh, Keyvan Pakshir, Zahra Hossain, Fatemeh Amiri^a, Elham Assadpour, Design, synthesis, and antifungal activity of triazole and benzotriazole derivatives, *European J. Med.Chem.*, 44 (2009) 3064-3067.

S. Khabnadideh; **Zahra Rezaei**; A. Khalafi-Nezhad; K. Pakshir; A. Roosta; Z. Baratzadeh, Design and Synthesis of Imidazole and Benzimidazole Derivatives as Antifungal Agents, *Anti-Infective Agents in Medicinal Chemistry*, 7 (2008) 215-218.

Z. Rezaei, S. Khabnadideh, M.M Zarshenas, M.R Jafari, Esterification of tertiary alcohols in steroids under different conditions. *J. Molecular Catalysis A*, 276 (2007) 57-61.

Zahra Rezaei, S. Khabnadideh, Z. Dehghani. Study of interaction between aspirin and propranolol enantiomers in protein binding., *International journal of Pharmaceutics*, 342 (2007) 78-81.

B. Hemmateenejad, **Zahra Rezaei**, S. Khabnadideh, M. Saffari. *Simultaneous spectrophotometric determination of carbamazepine and Carbamazepine-10,11-epoxide in plasma by PLS and comparison with HPLC. Spectrochimica*, 68 (2007) 718-724.

Soghra Khabnadideh, **Zahra Rezaei**, A. Khalafi Nezhad, M. H. Motazedian, M. Eskandari, Synthesis of Metronidazole Derivatives as Antigiardiasis agents, *Daru*, 1 (2007) 17-20.

Zahra Rezaei, A. Raissi, S. A. Moshtaghi, A. Asadipour, S. Khabnadideh. *A Study of the Interaction Between Propranolol and NSAID's in Protein Binding by Gel Filtration Method. Indian Journal of Clinical Biochemistry* 21 (2006) 121-125.

Zahra Rezaei, S. Khabnadideh, E. Afiatjou. In-vitro Study of dipyrindamol Interaction in Protein Binding in the Absence and Presence of Nicotine. *Iranian Journal of Pharmaceutical Sciences* 1 (2005) 171-176.

Zahra Rezaei, B. Hemmateenejad, S. Khabnadideh, M. Gorgin. Simultaneous spectrophotometric determination of carbamazepine and phenytoin in serum by PLS and comparison with HPLC. *Talanta* 65 (2005) 21-28.

Khabnadideh, **Zahra Rezaei**, A. Khalafi Neghad, R. Bahri Najafi, R. Mohamadi, A.A. Farokhrooz. Synthesis of N-Alkylated Derivatives of Imidazole as Antibacterial Agents. *Bioorganic & Medicinal Chemistry Letters* 13 (2003) 2863-2865.

Soghra Khabnadideh, **Zahra Rezaei**, F. Dalili, L. Shojaat. Optimization ofazole derivatives synthesis. *Basic Sciences Journal of Mashhad University* 4 (2003) 194-199.

Asadipour A. **Rezaei Zahra**. Saberi S. Amanzadeh Y, Ghanadi A.R. Volatile Constituents of the aerial of *Cymbopogon ollivieri* (Boiss.) Bor. from Iran, *J. Essential Oil Bearing Plants*,6(1),2003.

Abstracts

Soghra Khabnadideh, **Zahra Rezaei**, Soleiman Mohammadi Samani, Gholamreza Yarmohammadi. PMS STUDIES ON PROPRANOLOL AND ATENOLOL TABLETS.

13th International Meeting, Recent Development in Pharmaceutical Analysis, Milan, Italy 9-12 Sep 2009 (18-21/6/88).

R. Kamkar, S. Khabnadideh, **Zahra Rezaei**, A. Khalafi-Nezhad, K. Pakshir, A. H. Roosta,

Z. Baratzadeh. Design and Synthesis of Some Clotrimazole Derivatives as Antifungal Agents. *XXth International Symposium on Medicinal Chemistry , Vienna, Austria, 31 Aug- 4 Sep, 2008.*

S. Khabnadideh, **Zahra Rezaei**, N. Sanagouei. Design and Synthesis of Some New Imidazole and Benzimidazole Derivatives as Antifungal Agents. *XXth International Symposium on Medicinal Chemistry, Vienna, Austria, 31 Aug- 4 Sep 2008.*

N. Montazeri, S. khabnadideh, **Zahra Rezaei**, Y. Ghasemi. Antibacterial activity of some new derivatives of imidazole. *11th Iranian Pharmaceutical Sciences Conferences (IPSC 2008). Kerman University of Medical Sciences, Kerman / Iran, 18-21 Aug 2008.*

Zahra Rezaei, G. Kashi. *Design and Synthesis of some triazole and benzotriazole derivatives as antifungal agents.* 11th Iranian Pharmaceutical Sciences Conferences (IPSC 2008). Kerman University of Medical Sciences, Kerman / Iran, 18-21 Aug 2008.

R. Kamkar, S. Khabnadideh, **Zahra Rezaei**, A. Khalafi-Nezhad, K. Pakshir, M. J. Heiran, S. H. Shobeiri. *Design and Synthesis of 2-Methyl and 2-Methyl-4-Nitro Imidazole Derivatives as Antifungal Agents*. 11th Iranian Pharmaceutical Sciences Conferences (IPSC 2008). Kerman University of Medical Sciences, Kerman / Iran, 18-21 Aug 2008.

S. Khabnadideh, **Zahra Rezaei**, A. Khalafi-Nezhad, K. Pakshir, A. H. Roosta, Z. Baratzadeh. *Design and Synthesis of Imidazole and Benzimidazole Derivatives as Antifungal Agents*. 11th Iranian Pharmaceutical Sciences Conferences (IPSC 2008). Kerman University of Medical Sciences, Kerman / Iran, 18-21 Aug 2008.

Zahra Rezaei, K. Pakshir, S. Khabnadideh, E. Asadpoor. *Evaluation of Antifungal Activity of Azole Derivatives on the Causes of Topical Fungal Infections*. 44th Congress of Medical and Paramedical News. Isfahan University of Medical Sciences, Isfahan / Iran, 14-16 Nov 2007.

Zahra Rezaei, S.Khabnadideh, F. Amiri, *Design, synthesis, and antifungal activity of benzotriazole derivatives*, 3rd International Meeting on Medicinal and Pharmaceutical Chemistry, Turkey, October 2007

Zahra Rezaei; K. Pakshir; S. Khabnadideh, E. Asadpour. *Molecular Modeling of Benzotriazole and Triazole Derivatives As 6PGDH Enzyme Inhibitors in Trypanosoma*. 9th Iranian Congress of Biochemistry & the 2th International congress of Biochemistry and Molecular Biology. Shiraz University of Medical Sciences, Shiraz / Iran, 29 Oct- 1 Nov 2007.

S. Khabnadideh, **Zahra Rezaei**, *Design, synthesis, and antifungal activity of triazole derivatives*, 3rd International Meeting on Medicinal and Pharmaceutical Chemistry, Turkey, October 2007.

R.B.Najafi, **Zahra Rezaei**, O. Najm, Formulation and Evaluation of Phenytoin Sodium Buccoadhesive Polymeric Film For Oral Wound, Turkey, October 2007.

Zahra Rezaei, S. Khabnadideh, MM. Zarshenas, *Synthesis of cyproterone Derivatives*,.FIP,Kyoto, Japan, 2004.

Zahra Rezaei, S.Khabnadideh, E.Afiatjou, Study of propranolol and dipyridamole interaction in protein binding in present of nicotine. The 8th Iranian Seminar of Pharmaceutical Sciences, Shiraz / Iran (Sep 2002).

S.Khabnadideh, **Zahra Rezaei**, A.Khalafinegad, R.Mohamadi, Synthesis and antibacterial effects of substituted alkylimidazoles. The 8th Iranian Seminar of Pharmaceutical Sciences, Shiraz / Iran (Sep 2002).

S.Khabnadideh, **Zahra Rezaei**, F.Dalily, L.Shojaat, Using column chromatography for purification of Imidazole Derivatives. The 1st Seminar of Methodology in Pharmaceutical Sciences , Mashhad ,Iran (Sep 2001).

R.Mohamadi, S.Khabnadideh, A.Khalafinegad, **Zahra Rezaei**, Alkylation of imidazole derivatives and study of their antibacterial effects. The 7th Seminar of Iranian Pharmacy Students. Isfahan / Iran (2001).

M .Eskandari, S.Khabnadideh, A.Khalafinegad, **Zahra Rezaei**, Reaction of imidazole derivatives with several epoxides. The 7th Seminar of Iranian Pharmacy Students. Isfahan / Iran (2001).

Zahra Rezaei, B.Hemmateenejad, S.Khabnadideh, M.Goorgin, Determination of carbamazepine and phenytoin simultaneously in plasma by chemometric methods. Research in Shiraz Faculty of Pharmacy, Shiraz / Iran (2001).

S. Khabnadideh, M.J. Hairan, **Zahra Rezaei**, A. Khalafinegad, *Synthesis of clotrimazole derivatives*. The 1th Pharmaceutical Seminar in Industry and Treatment. Shiraz / Iran (2000)

Zahra Rezaei, S.Khabnadideh, Z.Deighani, *Study of interaction between aspirin and propranolol enantiomers in protein binding*. The 8th Iranian Seminar of Pharmaceutical Sciences, Shiraz / Iran (Sep 2002).

Zahra Rezaei, S. Khabnadideh, E. Afiatjou, *Study of propranolol and dipyridamole interaction in protein binding in present of nicotine*. The 8th Iranian Seminar of Pharmaceutical Sciences, Shiraz / Iran (Sep 2002).

Zahra Rezaei, A. Raissi, S.A.A. Moshtaghi, A. Asadipour, *Using Affinity Chromatography Method in Protein Binding Studies*, First Seminar of Methodology in Pharmaceutical Sciences, Mashhad / Iran (Sep 2001).

Zahra Rezaei, A. Raissi, S.A.A. Moshtaghi, A. Asadipour, *Study of Interaction of Propranolol and Many NSAID's in Protein Binding By Gel Filtration Method*, 7th Iranian Seminar of Pharmaceutical Sciences, Mashhd/Iran (Aug 2000)

Zahra Rezaei, A. Raissi, S.A.A. Moshtaghi, A. Asadipour, *In-vitro Study of NSAID's-Propranolol Interaction In Protein Binding*, 14th, Iranian Congress of Physiology and Pharmacology, Tehran / Iran (May1999).

Zahra Rezaei, A.Raissi, S.A.A. Moshtaghi, A. Asadipour, *Study of Aspirin- Propranolol Interaction in Protein Binding To BSA*, 6th Iranian Seminar of Pharmaceutical Sciences, Isfahan / Iran (Aug 1998).

Book

Zahra Rezaei, Mohammad Reza Jafari, *Anticancer Drugs, Medicinal Chemistry and Mechanism*, 2008, Publisher: Taimorzadeh

Zahra Rezaei , Molod alsadat Vakilnezhad, Fatemeh Dabbagh, *Antibiotics, Mechanism and Medicinal Chemistry*, 2017, Shiraz University of Medical Sciences

Zahra Rezaei, Fatemeh Dabbagh, Molod alsadat Vakilnezhad, *Antifungal and Antiviral Drugs, Mechanism and Medicinal Chemistry*, 2017, Shiraz University of Medical Sciences