Curriculum Vitae of Amirhossein Sakhteman (Pharm D, PhD)

Identification

First Name: **Amirhossein**

Last Name: **Sakhteman**

Date of Birth: **23.08.1981**

Place of Birth: **Shiraz, Iran**

Nationality: **Persian**

Marital status: **Married**

Education

Degrees obtained:

1- Diploma in Experimental Sciences, Khaju High School, Kerman, Iran (1999)

2- Doctorate of Pharmacy (Pharm D), Kerman University of Medical Sciences, Kerman, Iran (2005)

3- Doctorate of Medicinal Chemistry (PhD), Tehran University of Medical Sciences, Tehran, Iran (2010)

Colleges / Universities:

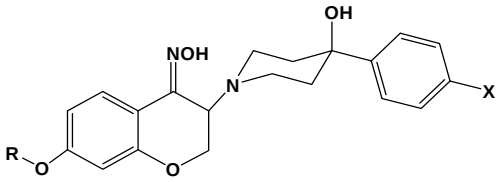
1- College of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

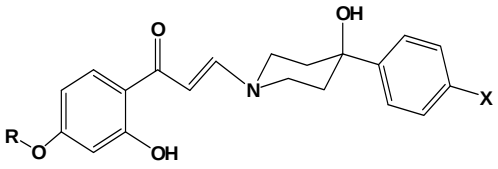
2- College of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran

Thesis Topics:

-Synthesis and antimycobacterial activity of some alkyl 1,3,4-thiaidiazole derivatives (Pharm D)

-Synthesis, evaluation of pharmacological effects on central nervous system (CNS)and quantitative structure activity relationship (QSAR) studies of 2,3-dihydro-7-hydroxy-3-(4-hydroxy-4-phenylpiperidin-1-yl)chromen-4-one oxime and 3-(4-hydroxy-4-phenylpiperidin-1-yl)-1-(2,4-dihydroxyphenyl)-2-propen-1-one derivatives (PhD)





Supervisors:

1- Prof. **Abbas Shafiee** (Full Professor of Medicinal chemistry, Tehran University of Medical Sciences, Tehran, Iran)

2- Prof. **Alireza Foroumadi** (Full Professor of Medicinal chemistry, Tehran University of Medical Sciences, Tehran, Iran)

3- Prof. **Mohammad Sharifzadeh** (Full Professor of Pharmacology, Tehran University of Medical Sciences, Tehran, Iran)

4- Dr **Rasul Ebrahimabadi** (Assistant Professor of Medicinal Chemistry, Kerman University of Medical Sciences, Kerman, Iran)

5- Prof. **Antti Poso** (Full Professor of Drug Design, University of Eastern Finland, Finland)

Abilities

Lab Experience:

1- Synthesis of pharmaceutical substances:

-Functional group interconversion in organic materials for lead optimization

-Structure determination of organic substances using spectral techniques: NMR, Mass spectroscopy and IR

2- Purification of the target compounds using preparative TLC, column chromatography, recrystalization etc.

3- Biological evaluations of the synthesized compounds:

-Tail Flick, Hot Plate and Formaline Test for evaluation of pain reactions in animal models

- Stereotaxic model for evaluating dopaminergic effects of the synthesized compounds in animal models

-Statistical analysis of pharmacological data by SPSS, PRISM 4, etc

4- Molecular Modeling:

- Homology Modeling using MODELLER, Discovery studio and Clustal softwares for obtaining 3D structure of proteins

- Docking of ligands on target proteins, using Autodock, GOLD and GLIDE and PyRx softwares in LINUX, Mac OS and WINDOWS operating systems

-Quantitative Structure Activity Relationship (QSAR) studies

-Automation of Geometry optimization for the compounds using Hyperchem and VB.NET

- Linear modeling techniques (MLR, PCR, PLS) using SPSS and MATLAB softwares

- Non linear modeling techniques (Neural network) by MATLAB and neural power softwares.

- Molecular dynamic simulation with Desmond (Schrodinger 2009) and Gromacs

- Programming abilities in linux (Bash, Cshell), MATLAB, Python and VB.NET

Back Grounds

Fellowship/Postdocs:

-Molecular Modeling Group, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Eastern Finland, Finland (AUG 2009-FEB 2010)

Projects / Research:

-Synthesis and antimycobacterial activity of some alkyl [5-(nitroaryl)-1,3,4-thiadiazole-2-ylthio] propionates

- Synthesis of anti neurodegenerative derivatives

-Modeling of GPCRs
-Simulation of membrane proteins within lipid bilayers

Scientific Interests and Goals:

-Synthesis and Drug design, QSAR studies, Docking, Homology modeling, Virtual Screening

ISI Publications:

1- Foroumadi A, Kargar Z, Sakhteman A, Feyzmohammadi R, Kazemi M, Shafiee A, Synthesis and antimycobacterial activity of some alkyl [5-(nitroaryl)-1,3,4-thiadiazole-2-ylthio]propionates, *Bioorg.Med.Chem.Lett*.2006 (16) 1164-1167.

2- Foroumadi A, Sheibani V, Sakhteman A, Rameshk M, Abbasi M, Farazifard R, Tabatabai S.A, Shafiee A. Synthesis and anticonvulsant activity of novel 2-amino-5-[4-chloro-2-(2-chlorophenoxy) phenyl]-1,3,4-thiadiazole derivatives, DARU 2007 15(2) 89-93.

3- Froumaadi A, Sakhteman A, Sharifzadeh Z, Mohammadhosseini N, Hemmateenejad B, Moshafi MH, Vosooghi M, Amini M, Shafiee A. Synthesis, antituberculosis activity and QSAR study of some novel 2-(nitroaryl)-5-(nitrobenzylsulfinyl and sulfonyl)-1,3,4-thiadiazole derivatives DARU 2007 15(4) 218-226.

4-Foroumadi A, Sedaghat S, Emami S, Yazdanian M, Moshafi MH, Safavi M , Sakhteman A, Firoozpour L, Vosooghi M, Shafiee A.Synthesis and Structure-Activity Relationship Study of 2-Substituted- 5-(5-nitro-2-thienyl)-1,3,4-thiadiazoles as Anti-Helicobacter pylori Agents, *Letters in Drug Design & Discovery*, 2009, 6(6), 468-474.

5- Sakhteman A, Foroumadi A, Sharifzadeh M, Amanlou M, Rayatnia F, Shafiee A. Synthesis and dopaminergic activity of some *E*-3-(piperidin-1-yl)-1-(4-substituted phenyl)prop-2-en-1-one derivatives, *Bioorg. Med.Chem. 2009. 17.* 6908–6913.

6- Sakhteman A, Maja Lahtela-Kakkonen, Antti Poso, Studying the catechol binding cavity in comparative models of human dopamine D_2 receptor, *J. Mol. Graph. Model*. 2011. 29. 685-692.

7-Asli M, Firoozpour L, Sheibani V, Sarkandi D, Sakhteman A, Davood A, Shafiee A, Foroumadi A, Synthesis of 1-Benzyl-4-[2-(3-thienylcarbonylamino)ethyl]piperidine as a Novel Potential Cholinesterase Inhibitor, *Asian J. Chem. 2011 ,23 (6), 2487-2490.*

8- Sakhteman A, Sharifzadeh M, Moradi A, Nadri H, Tabrizian K, Amanlou M, Asadipour A, Divsalar K, Shafiee A and Foroumadi A, Antinociceptive activity of some 1,4-substituted piperidine derivatives using tail flick method in mice, *African Journal of Pharmacy and Pharmacology* 2011, 5(3), 352-357.

9- Mozaffari S,Ghasemi S, Baher H, Khademi H, Amini M, Sakhteman A, Foroumadi A, Ebrahimabadi AH, Sharifzadeh M, Synthesis and evaluation of some novel methylene-bridged aryl semicarbazones as potential anticonvulsant agents, *Med Chem Res*, 2011, DOI 10.1007/s00044-011-9924-6

Congresses:

1- The symmetry of Channel in human NR2B receptor, A Brownian dynamic simulation study, International Conference of Medicinal Chemistry (ICM 2011), Beijing, China

2- 16th Iranian Seminar of Pharmacy Students, Jury Member, Tehran, Iran,

Honors and Activities:

-Language studying: -English: Graduated from ILI (Iran Language Institute), 2000
Holder of Junior Proficiency Certificate from ILI (2000)

-Français: Terminé Niveau intermédaire , a l'Institute Qotb Ravandi, Tehran, Iran

-Deutsch: kann etwas auf Deutsch spreschen

-Has been working as a Pharmacist in more than 30 pharmacies of Iran (Keman, Shiraz, Tehran, Yazd) since, 2003

- Holder of 3rd scientific rank at Razi Pharmaceutical Sciences Congress (2006), Tehran, Iran

-Educational Deputy, Faculty of Pharmacy, Shahid Sadoughi University of Medical sciences (2010)

-Dean of Faculty of Pharmacy, Shahid Sadoughi University of Medical Sciences, Since 2011

Adress:
Faculty of Pharmacy, Shahid sadoughi University of medical sciences, Yazd, Iran

Tel: +98-351-8203419
Fax: +98-351-8203418
E-mail: asakhteman@ssu.ac.ir
asakhteman@tums.ac.ir