

Hamid Sadeghian

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EDUCATION

Ph.D., Organic Chemistry, Ferdowsi University of Mashhad, Mashhad, Iran, 2008

Dissertation: "Design, Synthesis and Study of Cardiogenic Effects of New Derivatives of 6-Hydroxy-4-Methylcarbostyryl as Phosphodiesterase 3 Inhibitors"

M.A., Organic Chemistry, Ferdowsi University of Mashhad, Mashhad, Iran, 2004

Dissertation: "Isolation and Identification of sedative Compounds from *Rosa damascenae*"

B.A., Applied Chemistry, Ferdowsi University of Mashhad, Mashhad, Iran, 2002

RESEARCH INTERESTS

Molecular Modelling, Design of Enzyme Inhibitors, Docking, Organic Synthesis, Cancer Research, Drug Delivery

ACADEMIC POSITIONS

Assistant Professor, Mashhad University of Medical Sciences (2009-2014)

Associate Professor, Mashhad University of Medical Sciences (2014-2021)

HONORS AND AWARDS

Best Researcher Award, Medical Universities of Khorasan Razavi Province, 2011

Best Researcher Award, Mashhad University of Medical Sciences, 2010, 2012, 2014, 2016 and 2019

TEACHING EXPERIENCES

Instructor, Mashhad University of Medical Sciences, 2010-2020

- General Chemistry
- General Biochemistry

Instructor, Ferdowsi University of Mashhad, 2016-2017

- Bioinformatics

PUBLICATIONS

- 1) Orafaie, A., **Sadeghian, H***, Bahrami, AR., Rafatpanah, H., Matin, MM. Design, synthesis and evaluation of PD-L1 peptide antagonists as new anticancer agents for immunotherapy (2021) *Bioorganic & Medicinal Chemistry*, 30, pp. 115951.
- 2) Orafaie, A., Mousavian, M., Orafaie, H., **Sadeghian, H***,. An overview of lipoxygenase inhibitors with approach of *in vivo* studies (2020) *Prostaglandins & Other Lipid Mediators*, 148, pp. 106411.
- 3) Maleki, EH., Bahrami, AR., **Sadeghian, H.**, Matin, MM., Discovering the structure–activity relationships of different O-prenylated coumarin derivatives as effective anticancer agents in human cervical cancer cells (2020) *Toxicology in Vitro*, 63, pp. 104745.
- 4) Shakibapour, N., Sani, F.D, Beigoli, S, **Sadeghian, H**, Chamani, J. Multi-spectroscopic and molecular modeling studies to reveal the interaction between propyl acridone and calf thymus DNA in the presence of histone H1: binary and ternary approaches (2019) *Journal of biomolecular structure and dynamics*, 37, pp. 359-371.
- 5) Goftari, SN, **Sadeghian, H**, Bahrami, AR, Maleki, F, Matin, MM., Stylosin and some of its synthetic derivatives induce apoptosis in prostate cancer cells as 15-lipoxygenase enzyme inhibitors (2019) *Naunyn Schmiedeberg's Arch Pharmacol*, 392, pp. 1491-1502.
- 6) Meshkat, Z, Amini, Y, **Sadeghian, H**, Salimizand, H., ISAb1/bla_{OXA-23-like} family is the predominant cause of carbapenem resistance in *Acinetobacter baumannii* and *Acinetobacter nosocomialis* in Iran (2019) *Infection, Genetics and Evolution*, 71, pp. 60-66.
- 7) Sani, FD., Shakibapour, N., Beigoli, S., **Sadeghian, H.**, Hasanizadeh, M., Chamani, J.,. Changes in binding affinity between ofloxacin and calf thymus DNA in the presence of histone H1: spectroscopic and molecular modeling investigations (2018) *Journal of Luminescence*, 203, pp. 599-608.
- 8) **Sadeghian, H***, Seyadi, SM, Jafari, Z., Design and synthesis of new esters of terpenoid alcohols as 15-lipoxygenase inhibitors (2018) *Iranian journal of basic medical sciences*, 21, pp. 738-744.
- 9) Salimizand, H., Zomorodi, A.R., Mansury, D., Khakshoor, M., Azizi, O., **Sadeghian, H***., Diversity of aminoglycoside modifying enzymes and 16S rRNA methylases in *Acinetobacter baumannii* and *Acinetobacter nosocomialis* species in Iran; wide distribution of *aadA1* and *armA* (2018) *Infection, Genetics and Evolution* 66, 195-199.
- 10) Orafaie, A, Matin, M.M, **Sadeghian, H***., The importance of 15-lipoxygenase inhibitors in cancer treatment (2018) *Cancer and Metastasis Reviews*, 37(2-3), pp. 397–408.
- 11) Naseri, G., Fazel, A., Golalipour, M.J., Haghiri, H., **Sadeghian, H**, Mojarrad, M., *et al.* Exposure to mephedrone during gestation increases the risk of stillbirth and induces hippocampal neurotoxicity in mice offspring (2018) *Neurotoxicology and Teratology*, 67, pp. 10-17.

- 12) Alavi, S.J., **Sadeghian, H. ***, Seyedi, S.M., Salimi, A., Eshghi, H, A novel class of human 15-LOX-1 inhibitors based on 3-hydroxy coumarin (2018) Chemical Biology and Drug Design, 91 (6), 1125-1132.
- 13) Alavi, S.J., **Sadeghian, H.**, Seyedi, S.M., Eshghi, H, Salimi, A. Magnetically recoverable AlFe/Te nanocomposite as a new catalyst for the facile esterification reaction under neat conditions (2018). Applied Organometallic Chemistry, 32(3). e4167.
- 14) Salimizand, H., Jamehdar, S.A., Nik, L.B., **Sadeghian, H.*** Design of peptides interfering with iron-dependent regulator (IdeR) and evaluation of Mycobacterium tuberculosis growth inhibition (2017) Iranian Journal of Basic Medical Sciences, 20 (6), 722-728.
- 15) Hosseini, A., Shafiee-Nik, R., **Sadeghian, H.**, Parsaee, H. Novel cilostamide analogs, phosphodiesterase 3 inhibitors, produce positive inotropic but differential lusitropic and chronotropic effects on isolated rat atria (2017) Iranian Journal of Basic Medical Sciences, 20 (6), 639-647.
- 16) Orafaie, A., **Sadeghian, H.**, Bahrami, A.R., Saboormaleki, S., Matin, M.M., 5-farnesyloxy coumarin: a potent 15-LOX-1 inhibitor, prevents prostate cancer cell growth (2017) Medicinal Chemistry Research, 26 (1), pp. 227-234.
- 17) Jabbari, A., Mousavian, M., Seyedi, S.M., Bakavoli, M., **Sadeghian, H.*** O-prenylated 3-carboxycoumarins as a novel class of 15-LOX-1 inhibitors (2017) PLOS ONE, 12(2): e0171789.
- 18) Hosseinymehr, M., Matin, M.M., **Sadeghian, H.**, Bahrami, A.R., Kaseb-Mojaver, N., 8-Farnesyloxy coumarin induces apoptosis in PC-3 prostate cancer cells by inhibition of 15-lipoxygenase-1 enzymatic activity (2016) Anti-Cancer Drug, 27 (9), pp. 854-862.
- 19) Hassanzadeh, M., Bahrami, A.R., **Sadeghian, H.**, Rahimizadeh, M., Matin, M.M., Cytotoxic and anticancer activities of an acridine derivative; 11-chloro-3-methyl-3H-imidazo[4,5-a]acridine on 5637 cells (2016) Medicinal Chemistry Research, 25 (9), pp. 1852-1860.
- 20) Jabbari, A., **Sadeghian, H.***, Salimi, A., Mousavian, M., Seyedi, S.M., Bakavoli, M. 2-Prenylated m-dimethoxybenzenes as potent inhibitors of 15-lipoxygenase: Inhibitory mechanism and SAR studies (2016) Chemical Biology and Drug Design, 88 (3), pp. 460-469.
- 21) Farsiani, H., Mosavat, A., Soleimanpour, S., **Sadeghian, H.**, Akbari Eydgahi, M.R., Ghazvini, K., Sankian, M., Aryan, E., Jamehdar, S.A., Rezaee, S.A. Fc-based delivery system enhances immunogenicity of a tuberculosis subunit vaccine candidate consisting of the ESAT-6:CFP-10 complex (2016) Molecular BioSystems, 12 (7), pp. 2189-2201.
- 22) **Sadeghian, H.***, Jabbari, A. 15-Lipoxygenase inhibitors: A patent review (2016) Expert Opinion on Therapeutic Patents, 26 (1), pp. 65-88.
- 23) Mosavat, A., Soleimanpour, S., Farsiani, H., **Sadeghian, H.**, Ghazvini, K., Sankian, M., Jamehdar, S.A., Rezaee, S.A. Fused Mycobacterium tuberculosis multi-stage immunogens with an Fc-delivery system as a promising approach for the development of a tuberculosis vaccine (2016) Infection, Genetics and Evolution, 39, pp. 163-172.

- 24) Soleimanpour, S., Mohammadi, M.A., Ghazvini, K., Jamehdar, S.A., **Sadeghian, H.**, Taghiabadi, M., Rezaee, S.A.R. Construction of Mycobacterium tuberculosis ESAT-6 fused to human Fc γ of IgG1: To target Fc γ R as a delivery system for enhancement of immunogenicity (2016) *Gene*, 580 (2), pp. 111-117.
- 25) Abbasi, M., Seyedi, S.M., **Sadeghian, H.**, Akhbari, M., Enayaty, M., Shiri, A. TiCl₂.2H₂O catalyzed one-pot synthesis of highly functionalized tetrahydropiperidines and evaluation of their antimicrobial activities (2016) *Heterocyclic Communications*, 22 (3), pp. 117-121.
- 26) Soleimanpour, S., Farsiani, H., Mosavat, A., Ghazvini, K., Eydgahi, M.R.A., Sankian, M., **Sadeghian, H.**, Meshkat, Z., Rezaee, S.A. APC targeting enhances immunogenicity of a novel multistage Fc-fusion tuberculosis vaccine in mice (2015) *Applied Microbiology and Biotechnology*, 99 (24), pp. 10467-10480.
- 27) Alinejad, B., Shafiee-Nick, R., Ghorbani, A., **Sadeghian, H.** MC2, a new phosphodiesterase-3 inhibitor with antilipolytic and hypolipidemic effects in normal and diabetic rats (2015) *International Journal of Diabetes in Developing Countries*, 35 (4), pp. 408-417.
- 28) Sharifi Noghabi, H., Rounaghi, G.H., Arbab Zavar, M.H., **Sadeghian, H.** Complex formation between 2,9-dihydroxy-1,10-diphenoxy-4,7-dithiadecane and La³⁺, UO₂²⁺, Ce³⁺, and Y³⁺ cations in acetonitrile-ethyl acetate binary media as studied by conductometry (2015) *Russian Journal of General Chemistry*, 85 (4), 1735, pp. 930-935.
- 29) Alinejad, B., Shafiee-Nick, R., **Sadeghian, H.**, Ghorbani, A. Metabolic effects of newly synthesized phosphodiesterase-3 inhibitor 6-[4-(4-methylpiperidin-1-yl)-4-oxobutoxy]-4-methylquinolin-2(1H)-one on rat adipocytes (2015) *DARU, Journal of Pharmaceutical Sciences*, 23 (1), 19.
- 30) Ali Amini, A., Solovyova, A.S., **Sadeghian, H.**, Blackbourn, D.J., Rezaee, S.A.R. Structural properties of a viral orthologue of cellular CD200 protein: KSHV vOX2 (2015) *Virology*, 474, pp. 94-104.
- 31) **Sadeghian, H.**, Saedi, S., Sadeghian, A., Akhlaghi, M., Mohammadi, S., Safdari, H. Epidemiology and the agreement rate of serological tests in human brucellosis in North East of Iran (2015) *Archives of Clinical Infectious Diseases*, 10 (2), art. no. e20239, 3 p.
- 32) **Sadeghian, H.**, Varasteh, N., Esmaealzadeh, A., Nomani, H., Alimardani, M., Davoodnejad, M., Meshkat, M., Ahadi, M., Sepahi, S., Rostami, S., Meshkat, Z. Distribution of hepatitis delta virus genotypes in Mashhad, Northeast Iran (2015) *Jundishapur Journal of Microbiology*, 8 (2), art. no. e14908, 4 p.
- 33) Iranshahy, M., Javidi-Shirazi, H., Pham, N.B., Quinn, R.J., **Sadeghian, H.**, Iranshahi, M. Adlumiceine methyl ester, a new alkaloid from *Fumaria vaillantii* (2014) *Journal of Asian Natural Products Research*, 16 (12), pp. 1148-1152.
- 34) Safdari, H., Neshani, A., Sadeghian, A., Ebrahimi, M., Iranshahi, M., **Sadeghian, H.** * Potent and selective inhibitors of class A β -lactamase: 7-prenyloxy coumarins (2014) *Journal of Antibiotics*, 67 (5), pp. 373-377.
- 35) Sadeghnia, H.R., Vahdati Hassani, F., **Sadeghian, H.**, Miandehi, M., Hadizadeh, F., Karimi, G. Evaluation of in vitro toxicity of peptide (N-acetyl-Leu-Gly-Leu-COOH)-substituted- β -cyclodextrin derivative, a novel drug carrier, in PC-12 cells (2013) *DARU, Journal of Pharmaceutical Sciences*, 21 (1), art. no. 75.

- 36) Rostamizadeh S, Nojavan M, Aryan R, **Sadeghian H**, Davoodnejad M, A novel and efficient synthesis of pyrazolo[3,4-d]pyrimidine derivatives and the study of their anti-bacterial activity, (2013) *Chinese Chemical Lett.*, 24 (7), PP. 629-632.
- 37) Nikpour M, Mousavian M, Davoodnejad M, Alimardani M, **Sadeghian H***, Synthesis of new series of pyrimido[4,5-b][1,4] benzothiazines as 15-lipoxygenase inhibitors and study of their inhibitory mechanism, (2013) *Med. Chem. Res.*, 22 (10), 5036-5043.
- 38) Bakavoli M, Seyedi SM, Shiri A, Saberi S, Gholami M, **Sadeghian H**, Synthesis of new derivatives of pyrimido[5,4-e][1,2,4]triazolo[3,4-b] [1,3,4]thiadiazine and their enzyme inhibitory activity assessment on soybean 15-lipoxygenase, *J. Chem. Res.*, 2013;37:48-50.
- 39) Assadieskandar A, Amini M, Salehi M, **Sadeghian H**, Alimardani M, Sakhteman M, Nadri H, Shafiee A, Synthesis and SAR study of 4,5-diaryl-1H-imidazole-2(3H)-thione derivatives, as potent 15-lipoxygenase inhibitors, *Bioorg. Med. Chem.*, 2012;20: 7160-7166.
- 40) Jabbari A, Davoodnejad M, Alimardani M, Assadieskandar A, Sadeghian A, Safdari H, Movaffagh J, **Sadeghian H.***, Synthesis and SAR studies of 3-allyl-4-prenyloxylaniline amides as potent 15-lipoxygenase inhibitors, *Bioorg. Med. Chem.*, 2012;20:5518-5526.
- 41) Iranshahi M, Jabbari A, Orafaie A, Mehri R, Zeraatjar S, Ahmadi T, Alimardani M, **Sadeghian H***, Synthesis and SAR studies of mono 0-prenylated coumarins as potent 15-lipoxygenase inhibitors, *Eur. J. Med. Chem.*, 2012;57:134-142.
- 42) Sadeghian A, Safdari H, Fahmidehkar M, **Sadeghian H***, 11-Chloro-3-methyl-3H-imidazo[4,5-a]acridine (CMIA) as a potent and selective antimicrobial agent against clinical isolates of highly antibiotic-resistant *Acinetobacter baumannii*, *Med. Chem. Res.*, 2012;21:3897-3901.
- 43) Hosseini A, Shafiee-Nick R, Behzad NPA, **Sadeghian H**, Differential metabolic effects of novel cilostamide analogs, methyl carbostiryl derivatives, on mouse and hyperglycemic rat. *Iran. J. Basic Med. Sci.* 2012;15:916-925.
- 44) Zavar MHA, Heydari S, Rounaghi GH, **Sadeghian H.**, Nano-level monitoring of yttrium by a novel PVC-membrane sensor based on 2,9-dihydroxy-1,10-diphenoxy-4,7-dithiadecane. *Croatica Chemica Acta*, 2012;85:131-137.
- 45) Seyedi SM, **Sadeghian H***, Jabbari A, Assadieskandar A, Momeni H. Synthesis of a new series of cyclodextrin esters as dopamine carrier molecule. *Bioorg. Med. Chem.* 2011;19(14): 4307-4311.
- 46) **Sadeghian H**, Seyedi SM, Attaran N, Jabbari A, Jafari Z. Synthesis and SAR Comparative Studies of 2-allyl-4-methoxy-1-alkoxybenzenes as 15-Lipoxygenase Inhibitors. *J. Enzyme Inhib. & Med. Chem.* 2011;26(2):238-244 .
- 47) Rounaghi G, Zadeh Kakhki RM, **Sadeghian H**, A new cerium (III) ion selective electrode based on 2,9-dihydroxy-1,10- diphenoxy-4,7-dithia decane, a novel synthetic ligand. *Electrochimica Acta* 2011;56: 9756-9761.
- 48) Hosseiny MS, Rounaghi GH, **Sadeghian H**, Competitive transport of seven metal cations through bulk liquid membrane using 5,12-di(phenoxymethyl)-1,4-dioxa-7,10-dithiacyclododecane-2,3-dione as carrier. *Russian J. Inorg. Chem.* 2011;56:816-823.

- 49) Moradi A, Navidpour L, Amini M, **Sadeghian H**, Shadnia H, Firouzi O, Miri R, Ebrahimi SES, Abdollahi M, Zahmatkesh M H, Shafiee A, Design and Synthesis of 2-Phenoxynicotinic Acid Hydrazides as Anti-inflammatory and Analgesic Agentse. *Archiv der Pharmazie*. 2010;343:509-518.
- 50) Seyedi SM, **Sadeghian H***, Jabbari A, Assadi A, Momeni H, Design and synthesis of a new series of amphiphilic peptide- β -cyclodextrins as phase transfer carriers for glucosamine. *Tetrahedron*. 2010;66:6754-6760.
- 51) **Sadeghian H**, Sadeghian A, Pordel M, Rahimizadeh M, Jahandari P, Orafaie A, Bakavoli M, Design, synthesis and structure-activity relationship studies of novel 2,4-dinitrophenyl-1*H*-4-pyrazolecarbonitrile analogues as PBP (penicillin binding protein) inhibitors with Gram-positive antibacterial activity. *Med. Chem. Res.* 2010;19:103-119.
- 52) Rounaghi GH, Arbab-Zavar MH, Fahmideh-Rad E, **Sadeghian H**, Metal-ion recognition-competitive bulk liquid membrane transport of transition and post-transition metal cations using a thioether donor acyclic ionophore, *Russian J. Inorg. Chem.* 2010;55:1657-1665.
- 53) Nickpour M, **Sadeghian H***, Saberi MR, Shafiee Nick R, Seyedi SM, Hosseini A, Parsaee H, Design, Synthesis and Biological Evaluation of 6-(Benzyloxy)-4-methylquinolin-2(1*H*)-one Derivatives as PDE3 Inhibitors. *Bioorg. Med. Chem.* 2010;18:855-862.
- 54) **Sadeghian H**, Seyedi SM, Saberi MR, Shafiee Nick R, Mansouri SMT, Hosseini A, Parsaee H, Bakavoli M, Design, synthesis and pharmacological evaluation of 6-hydroxy-4-methylquinolin-2(1*H*)-one derivatives as inotropic agent. *J. Enzyme Inhib. & Med. Chem.* 2009; 24(4):918-929.
- 55) Rounaghi GH, Hosseiny MS, **Sadeghian H**. Competetive transport studies of seven metal cations through bulk liquid membrane using 1, 4-dioxa-7,10-dithiacyclododecane-2,3-dione. *Asian J. Chem.* 2009; 21(5): 3577-3587.
- 56) **Sadeghian H***, Attaran N, Jafari Z, Saberi MR, Pordel M, Riazi MM. Design and synthesis of 4-methoxyphenylacetic acid esters as 15-lipoxygenase inhibitors and SAR comparative studies of them. *Bioorg. Med. Chem.* 2009; 17(6): 2327-2335.
- 57) Seyedi SM, Attaran N, Jafari Z, **Sadeghian H**, Saberi MR, Riazi MM. Design and synthesis and SAR studies of 4-allyloxylanilline amides as potent 15-lipoxygenase inhibitors. *Bioorg. Med. Chem.*, 2009;17(4):1614-1622.
- 58) Seyedi S.M, **Sadeghian H**, Safari Z. Synthesis of new β,β' -diketodithioethers via Swern Oxidation and studying of their hydrazone formation rate. *Phosphorus, sulfur and Silicon*. 2009;184:2297-2306.
- 59) Seyedi SM, **Sadeghian H**, Arghiani Z. New procedure for the total synthesis of cilostamide, *Heterocyclic Comm.* 2008; 14: 183-186.
- 60) **Sadeghian H**, Seyedi SM, Saberi MR, Arghiani Z, Riazi M. Design and synthesis of eugenol derivatives, as potent 15-lipoxygenase inhibitors. *Bioorg. Med. Chem.* 2008; 16: 890-901.
- 61) Ronaghi GH, Kazemi MS, **Sadeghian H**. Transport of silver ion through bulk liquid membrane using macrocyclic and acyclic ligands as carriers in organic solvents. *J. Inc. Phenom. Macrocycl. Chem.* 2008; 60: 79-83.

- 62) Bakavoli M, **Sadeghian H**, Tabatabaei Z, Rezaei E, Rahimizadeh M, Nikpour M. SAR comparative studies on pyrimido[4,5-*b*][1,4] benzothiazine derivatives as 15-lipoxygenase inhibitors, using *ab initio* calculations. *J. Mol. Model.* 2008; 14(6): 471-478.
- 63) Iranshahi M, Mojarab M, **Sadeghian H**, Hanafi-Bojd MY, Schneider B. Polar secondary metabolites of *Ferula persica* roots. *Phytochemistry.* 2008; 69:473-478.
- 64) Bakavoli M, Nikpour M, Rahimizadeh M, Saberi MR, **Sadeghian H**. Design and synthesis of pyrimido[4,5-*b*][1,4]benzothiazine derivatives, as potent 15-lipoxygenase inhibitors. *Bioorg. Med. Chem.* 2007; 15: 2120-2126.
- 65) Sadeghian A, Seyedi SM, **Sadeghian H**, Hazrathoseyni A, Sadeghian M. Synthesis, biological evaluation and QSAR studies of some new thioether-ester crown ethers. *J. Sulfur. Chem.* 2007; 28:597-605.
- 66) Iranshahi M, Arfa P, Ramezani M, Jaafari MR, **Sadeghian H**, Bassarello C, Piacente S, Pizza C. Sesquiterpene coumarins from *Ferula szowitsiana* and *in vitro* antileishmanial activity of 7-prenyloxycoumarins against promastigotes. *Phytochemistry.* 2007; 68: 554-561.
- 67) Seyedi SM, Sadeghian A, **Sadeghian H**, Hazrathoseyni A, Synthesis and biological evaluation of some new thioether-ester crown ethers. *Phosphorus, sulfur and Silicon.* 2007; 182; 265-272.
- 68) Seyedi SM, **Sadeghian H**, Rezai M. The green method for regiospecific ring opening of epoxide with dimercaptoethane. *Phosphorus, sulfur and Silicon.* 2007; 182: 1709-1716.
- 69) Mansouri SMT, Shafiee Nik R, Parsaee H, Seyedi SM, Saberi MR, **Sadeghian H**. Inotropic and chronotropic effects of 6-(4-(4-methylpiperazin-1-yl)-4-oxobutoxy)-4-methylquinolin-2(1H)-one derivatives in rat atria. *Iran. Biomed. J.* 2008; 12: 77-84.

CONFERENCE PRESENTATIONS

- 1) **Sadeghian H***, Jabbari A. New Synthetic Amphiphilic Peptid-Cyclodextrins as Phase Transfer Carriers for Chitosamine. The 5th Iranian Controlled Release Conference, poster presentation, 4-6 october, 2011, Mashhad, Iran.
- 2) Hosseini A, Shafiee R, Pourali Behzad N, **Sadeghian H**. Differential metabolic effects of novel cilostamide analogs, methyl carbostiryl derivatives, in mouse and hyperglycemic rat. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. oral presentation, September 6-9, 2011, Mashhad, Iran.
- 3) **Sadeghian H***, Jabbari A, Davoodnejad M, Alimardani M, Shakeri s. Determination of the inhibitory mechanism of eugenyl adamantate on 15-lipoxygenase. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. poster presentation, September 6-9, 2011, Mashhad, Iran.
- 4) Golahmadi S, Soukhtanloo M, **Sadeghian H**, Sargolzaei J. Toxicity effects of hydroxy coumarin derivations on induction of apoptosis in MCF7 cell line. 12th

- Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. poster presentation, September 6-9, 2011, Mashhad, Iran.
- 5) **Sadeghian H**, Amini AA, Rafatpanah H, Rahim Rezaee SA. 3-Dimensional molecular modeling studies of KSHV Vox2 protein as an example of highly glycosylated and adhesive molecule. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. oral presentation, September 6-9, 2011, Mashhad, Iran.
 - 6) **Sadeghian H***. Design and synthesis of new series of 6-(benzyloxy)-4-methylcarbostyryl derivatives as PDE3 inhibitors based on modification of vesnarinone structure. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. poster presentation, September 6-9, 2011, Mashhad, Iran.
 - 7) Sargolzaei J, **Sadeghian H***, Soukhtanloo M, Golahmadi S, Toxicity effects of hydroxy coumarin derivations on induction of apoptosis in N2A cell line. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology. poster presentation, September 6-9, 2011, Mashhad, Iran.
 - 8) Malek jafarian M, Sheykholeslami M. **Sadeghian H**, Parhizgar F, The study of antibacterial effect of golpar extracts on antibiotic-resistant bacterias. The First Iranian International Congress of Medical Bacteriology. Poster presentation, September 5-8, 2011, Tabriz, Iran,
 - 9) **Sadeghian H***. Seyedi SM. Allylbenzens and phenylacetic acid esters as lipoxygenase inhibitors., International Medical and Aromatic Plants Symposium 2010 2ed Iranian Phytochemistry Seminar. Poster Presentation, 23-27 June, 2010, Shiraz, Iran..
 - 10) Rahimizadeh M, Nikpour M, Bakavoli M, **Sadeghian H**. New approach to the synthesis of pyrimido[4,5-e][1,3,4] thiadiazines and their interaction with lipoxygenase enzyme. 13th Iranian Seminar of Organic Chemistry. Poster Presentation, 7-9 September, 2006, Hamedan, Iran.
 - 11) Rahimizadeh M, Nikpour M, Bakavoli M, **Sadeghian H**. Synthesis of novel lipoxygenase inhibitors based on pyrimido[4,5-b][1,4]benzothiazine. 13th Iranian Seminar of Organic Chemistry. Poster Presentation, 7-9 September, 2006, Hamedan, Iran.
 - 12) Seyedi SM, Sadeghian A, **Sadeghian H***, Hazrathoseyni A. Synthesis and biological evaluation of Some new thioether-ester crown ethers. 13th Iranian Seminar of Organic Chemistry. Poster Presentation, 7-9 september, 2006, Hamedan, Iran.
 - 13) Seyedi SM, **Sadeghian H***, Ghaemi F. Synthesis of new systems of β,β' -dihydroxy diazaethers and docking with arabinosyltransferaseB. 12th Iranian Seminar of Organic Chemistry. Poster Presentation, 7-9 March, 2005, Ahvaz, Iran.
 - 14) Seyedi SM, **Sadeghian H***. Extraction and isolation of sedative compounds from Rosa damascenae petals. First Seminar of Medicinal & Natural Products Chemistry. Poster Presentation, 10-11 May, 2005, Shiraz, Iran.

BOOKS

Atena Jabbari and **Hamid Sadeghian*** (2012). Amphiphilic Cyclodextrins, Synthesis, Utilities and Application of Molecular Modeling in Their Design, Recent Advances in Novel Drug Carrier Systems, Ali Demir Sezer (Ed.), ISBN: 978-953-51-0810-8, InTech,

PROFESSIONAL AFFILIATIONS

Department of Laboratory Sciences, School of Paramedical Sciences, Mashhad University of Medical Sciences, Mashhad, Iran

Neurogenic Inflammation Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

Antimicrobial Resistance Research Center, Mashhad University of Medical Sciences, Mashhad, Iran

LANGUAGES

Persian: Native Language

English: Fluent, Advanced Reading and Writing

COMPUTER SKILLS

Microsoft Office, WordPress, Google Analytics, Molecular Modeling and Molecular Graphic Software, Docking Software