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Associate Professor

Medicinal Chemistry Department, School of Pharmacy,  
Shahid Beheshti University of Medical Sciences

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**EDUCATION**

**Ph.D., Medicinal Chemistry, Shahid Beheshti University of Medical Sciences, 2012**

Dissertation: *Synthesis of guanidine derivatives and evaluation of their antiplatelet activity*

Dissertation Advisors: Farzad Kobarfard, Ph.D., Sayyed Abbas Tabatabai, Ph.D.

**Pharmacy Doctorate, Shahid Beheshti University of Medical Sciences, 2006**

Thesis: *Preparation of new derivatives of catechol with potential effects on adrenergic receptors using electrochemical methods.*

Thesis Advisor: Farzad Kobarfard, Ph.D.

**TEACHING EXPERIENCE**

**Associate Professor, Shahid Beheshti University of Medical Sciences, 2022-present**

Courses: Medicinal Chemistry, Practical Organic Chemistry, Practical Biochemistry, Instrumental Analysis

**Assistant Professor, Shahid Beheshti University of Medical Sciences, 2013-2021**

Courses: Medicinal Chemistry, Practical Organic Chemistry, Practical Biochemistry, Instrumental Analysis

**Teaching Assistant, Shahid Beheshti University of Medical Sciences, 2006-2012**

Courses: Special Education, Learning Disabilities, Introduction to Psychology

**Teaching Assistant, Pharmacy International Branch Shahid Beheshti University, 2006-2012**

Courses: Organic Chemistry, Practical Organic Chemistry

**Teaching Assistant, University at Kermanshah, 2008**

Courses: Quality control of drugs

## **PUBLICATIONS**

Barabadi H, Vahidi H, Arjmand M, Abdorashidi MM, Jahani R, **Amidi S**, Hosseini O, Sadeghian-Abadi S, Jounaki K, Ashouri F. Exploring the biological properties of Saccharomyces cerevisiae-derived silver nanoparticles: In vitro structural characteristics, antibacterial, biofilm inhibition and biofilm degradation, antioxidant, anticoagulant, thrombolytic, and antidiabetic performance. Inorg. Chem. Commun.2024, 162, 112291

Ahmadi N, Khoramjouy M, Azami Movahed M, **Amidi S**, Faizi M, Zarghi A. Design, Synthesis, In vitro and In vivo Evaluation of New Imidazo [1, 2-a] pyridine Derivatives as Cyclooxygenase-2 Inhibitors. Curr Med Chem Anticancer Agents, 2024, 7, 504-513.

Talank N., Morad H., Barabadi H., Mojab F., **Amidi S.**, Kobarfard F. et al. Bioengineering of green-synthesized silver nanoparticles: In vitro physicochemical, antibacterial, biofilm inhibitory, anticoagulant, and antioxidant performance, Talanta,2022, 243, 123374

Klidsar, M.H., Esfahanizadeh, M., Haghverdi, P., **Amidi S.**, Kobarfard F. Synthesis, and docking studies of arylhydrazone compounds and evaluation of their platelet aggregation inhibitory effect and cytotoxicity. Med Chem Res, 2022, 31, 1611–1620.

Ghanbarzadeh O, Kobarfard F, **Amidi S.** Electrosynthesis, in Silico Ligand-Protein Interaction and Pharmacokinetic Studies of Some Aryl Sulfone Derivatives as Potential Acetylcholinesterase Inhibitors: Synthesis of aryl sulfones as acetylcholinesterase inhibitors. Trends Pept. Protein Sci. 2022, 7:1-7 (e11).

Amini, A., Tavakoli-Ardakani, M., Zarepishe, N., Mahboubi-Rabbani, M., & **Amidi, S.** (2022). Comparison of some physical parameters of different brands of acyclovir tablets marketed in Iran: Quality control of acyclovir tablets. International Pharmacy Acta, 5(1), e11: 1-5

Ahfad-Hosseini, H. R., Bagheri, H., & **Amidi, S.** (2022). Green Synthesis of Nalidixic Acid by Ionic Liquid: Using ionic liquid for drug synthesis. International Pharmacy Acta, 5(1), e1:1-5

Javani Jouni E, Kordi M, Khoshbakht S, **Amidi S**, Shahhosseini S. Synthesis, Radiolabeling and Stability Studies of Peptide HYNIC-LIKKP-Pyr-F with <sup>99m</sup>Tc as an Apoptosis Imaging Agent : Radiolabeling of an apoptosis imaging agent. Trends Pept. Protein Sci, 2022, 7:1-5 (e8).

Kobarfard F, Ayatollahi SA, Khosravi-Dehaghi N, Faizi M, **Amidi S**, Martorell M, Choudhary MI, H Rasul Suleria HS, Sharifi-Rad J, High-performance thin-layer chromatography fingerprinting, total phenolic and total flavonoid contents and anti-platelet-aggregation activities of Prosopis farcta extracts Cell Mol Biol, 2020, 66, 4.

Fakhreddini M, Tabib K, **Amidi S**, Kobarfard F, SA Tabatabai, Simultaneous measurement of lead and cadmium in the milk distributed in Tehran's schools by differential-pulse anodic stripping voltammetry, IPA 2019,2(1):1-8

Karimian N, Fakhri H, **Amidi S**, Hajian A, Arduini F, Bagheri H. A novel sensing layer based on metal-organic framework UiO-66 modified with TiO<sub>2</sub>-graphene oxide: application to rapid, sensitive and simultaneous determination of paraoxon and chlorpyrifos. New J Chem 2019;43(6):2600-2609.

Rezaeianpour S, Mosayebnia M, Moghimi A, **Amidi S**, Geramifar P, Kobarfard F, et al. [ <sup>18</sup>F]FDG-Labeled CGPRPPC Peptide Serving as a Small Thrombotic Lesions Probe, Including a Comparison with [ <sup>99m</sup>Tc]-Labeled Form. Cancer Biother Radiopharm 2018;33(10):438-444.

Sepehri, Z., Bagheri, H., Ranjbari, E., Amiri-Aref, M., **Amidi, S.**, Rouini, M. R., & Ardakani, Y. H.. Simultaneous electrochemical determination of isoniazid and ethambutol using poly-melamine/electrodeposited gold nanoparticles modified pre-anodized glassy carbon electrode. Ionics, 2018; 24(4): 1253-1263.

Hashemi P, Bagheri H, Afkhami A, **Amidi S**, Madrakian T. Graphene nanoribbon/FePt bimetallic nanoparticles/uric acid as a novel magnetic sensing layer of screen printed electrode for sensitive determination of ampyra. Talanta 2018;176:350-359.

**Amidi S**, Hashemi Z, Motallebi A, Nazemi M, Farrokhpayam H, Seydi E, et al. Identification of (Z)-2,3-diphenylacrylonitrile as anti-cancer molecule in Persian gulf sea cucumber holothuria parva. Mar Drugs 2017;15(10).

Hashemi P, Afkhami A, Bagheri H, **Amidi S**, Madrakian T. Fabrication of a novel impedimetric sensor based on L-Cysteine/Cu(II) modified gold electrode for sensitive determination of ampyra. Anal Chim Acta 2017;984:185-192.

**Amidi S**, Ardakani YH, Amiri-Aref M, Ranjbari E, Sepehri Z, Bagheri H. Sensitive electrochemical determination of rifampicin using gold nanoparticles/poly-melamine nanocomposite. RSC Adv 2017;7(64):40111-40118

**Amidi S**, Esfahanizadeh, M., Tabib K., Soleimani Z., Kobarfard. F. Rational design and synthesis of 2-aminoimidazole derivatives as antiplatelet drugs. ChemMedChem, 2017; 12 (12): 962-971.

Ahmad-Hosseini, H.R., Bagheri, H., **Amidi, S.** Ionic liquid-assisted synthesis of celexocib using tris-(2-hydroxyethyl) ammonium acetate as an efficient and reusable catalyst. Iranian J Pharm Res, 2017; 16(1):158-194.

Bagheri, H. Pajooheshpour, N., Jamali, B., **Amidi, S.**, Hajian, A., Khoshshafar, H. A novel electrochemical platform for sensitive and simultaneous determination of dopamine, uric acid and ascorbic acid based on Fe<sub>3</sub>O<sub>4</sub>/SnO<sub>2</sub>/Gr ternary nanocomposite. MICROCHEM J, 2017; 131: 120-129.

Bagheri, H. , Ranjbari, E., Amiri-Aref, M., Hajian, A., Ardakani, Y.H., **Amidi, S.** Modified fractal iron oxide magnetic nanostructure: A novel and high performance platform for redox protein immobilization, direct electrochemistry and bioelectrocatalysis application. Biosens. Bioelectron, 2016; 85:814-821.

Bagheri, H. , Khoshshafar, H., **Amidi, S.**, Hosseinzadeh Ardakani, Y. Fabrication of an electrochemical sensor based on magnetic multi-walled carbon nanotubes for the determination of ciprofloxacin Anal. Methods 2016; 8(16): 3383-3390.

Bagheri, H., Khoshshafar, H., Afkhami, A., **Amidi, S.** Sensitive and simple simultaneous determination of morphine and codeine using a Zn<sub>2</sub>SnO<sub>4</sub> nanoparticle/graphene composite modified electrochemical sensor. New J. Chem 2016;40 ( 8): 7102-7112.

Lorigooini Z., Ayatollahi A., **Amidi S.**, Kobarfard F. Evaluation of anti-platelet aggregation effect of some Allium species. IJPR, 2015; 14 (4): 1225-1231.

Esfahanizadeh, M., Mohebbi, S., Bozorg, B.D., **Amidi, S.**,Gudarzi, A.,Ayatollahi, S.A., Kobarfard, F.Synthesis and antiplatelet aggregation activity evaluation of some 2-aminopyrimidine and 2- substituted-4,6-diaminopyrimidine derivatives.IJPR, 2015;14(2): 417-424.

Jamali, B., Nakhjavani, M., Hosseinzadeh, L., **Amidi S.**, Nikounezhad, N., Shirazi, F.H.Intracellular GSH alterations and its relationship to level of resistance following exposure to cisplatin in cancer cell. IJPR, 2015; 14(2): 513-519

FaghihAkhlagh M., **Amidi S.**, Esfahanizadeh M., Daeihamed M., Kobarfard F., Synthesis of N-arylmethyl Substituted Indole Derivatives as New Antiplatelet Aggregation Agents.IJPR. 2014; 13: 35-42

Esfahanizade M., Omidi K., Kauffman J., ShahrakiZahedani SH., Gudarzi A., **Amidi S.**, KobarfardF. Synthesis and Evaluation of New Fluorinated Anti-Tubercular Compounds. IJPR. 2014; 13(1): 115- 126

JamaliB., HosseinzadehArdakani Y., Rouini MR., Foroumadi AR., **Amidi S.**, HosseinZadehAghdam V., KobarfardF., Instability study of HHMA, as a neurotoxic metabolite of ecstasy, in the presence of calcium chloride using HPTLC-Mass. DARU Journal of Pharmaceutical Sciences 2013; 21:9

**Amidi S.**, Kobarfard. F., BayandoriMoghaddam A., Tabib K., Soleimani Z., Electrochemical synthesis of novel 1,3-indandione derivatives and evaluation of their antiplatelet aggregation activities, IJPR. 2013; 12: 91-103.

Mashayekhi V., Tehrani K., **Amidi S.**,Kobarfard F. Synthesis of novel indolehydrazone derivatives and evaluation of their antiplatelet aggregation activity. BPC.2013; 61 (2): 144 -150

**Amidi S.**, MojabF., BayandoriMoghaddam A., Tabib K., Kobarfard F. A Simple Electrochemical Method for the Rapid Estimation of Antioxidant Potentials of Some Selected Medicinal Plants. IJPR, 2012; 11 (1): 117-121.

## **PRESENTATIONS**

Filab P., Zebardast T., **Amidi S.**, Design, Synthesis and Molecular Modeling Studies of New Diaryloxodihydropyrrole Derivatives as Selective Cyclooxygenase-2 Inhibitors. 7<sup>th</sup> Pharmacy Updates Congress, 21-23 February-2022. Tehran, Iran.

Sadeghi F., Zebardast T., **Amidi S.**, Design, Synthesis and Docking Studies of New 1-Alkyl-2-Aryl- Pyrrolin-5-one Derivatives as Selective Cyclooxygenase-2 Inhibitors. 7<sup>th</sup> Pharmacy Updates Congress, 21-23 February-2022. Tehran, Iran.

Khalesi M., Zebardast T., **Amidi S.**, Design and Synthesis of New Methyl 1,2-Diaryl-4-Hydroxy-5-oxo -2,5-Dihydro-1H-Pyrrole-3-Carboxylate Derivatives as Selective COX-2 Inhibitors. 5<sup>th</sup> Pharmacy Updates Congress, 15-18 February-2022. Tehran, Iran.

Pazoki M., Zebardast T., **Amidi S.**, Design and Synthesis of Novel Diaryl Oxo Pyrrole Derivative as Selective COX-2 Inhibitors., 5<sup>th</sup> Pharmacy Updates Congress, 15-18 February-2022. Tehran, Iran.

Ahmadivand R ., Zebardast T., **Amidi S.**, Design and synthesis of New Methyl-4-Hydroxy-1-Alkyl-2-aryl 5-Oxo 2,5-Dihydropyrrole-3-Carboxylate Derivatives as Selective COX-2 Inhibitors., 5<sup>th</sup> Pharmacy Updates Congress, 15-18 February-2022. Tehran, Iran.

Hozuri F., **Amidi S.**, Zebardast T., Design and Synthesis of new 2-alkylthio-3-arylquinazolinone derivatives with potential anticancer effects. 28<sup>th</sup> Iranian Conference on Organic Chemistry., 1-3 March 2022. Tehran, Iran.

Banimostafa Z., Zebardast T., **Amidi S.**, Design and Synthesis of new 2-(alkylthio)-3-phenylquinazoline-4-one derivatives with potential anticancer effects. 4<sup>th</sup> International Congress on Pharmacy Updates, 17-20 February-2021. Tehran, Iran.

Amini S., Zebardast T., **Amidi S.**, Design and Synthesis of new 3-(4-methylphenyl)-2-benzylthio- 1,3-benzodiazinane-4(3H)-one derivatives with potential anticancer effects. 4<sup>th</sup> International Congress on Pharmacy Updates, 17-20 February-2021 Tehran, Iran.

Jalali N, **Amidi S.**, Zebardast T Design and Synthesis of 3-(4-methoxyphenyl)-2-benzylthio-1,3-benzodiazinane-4(3H)-one derivatives with potential anticancer effects. 4<sup>th</sup> International Congress on Pharmacy Updates, 17-20 February-2021. Tehran, Iran.

**Amidi S.**, Ghanbarzade O, Kobarfard F, Synthesis and molecular modeling of some catechol derivatives as acetylcholinesterase inhibitors, International Symposium on Medicinal Chemistry and the EFMC Young Medicinal Chemists' Symposium, September 2020.

**Amidi S.**, Antiplatelet drugs, 3<sup>rd</sup> International Congress on Pharmacy Updates, Tehran 8-5 February-2020-Tehran, Iran.

Zahedi Nik M, **Amidi, S.**, Kobarfard F Synthesis and Cytotoxic Evaluation of Some  $\alpha$ -

$\beta$ Unsaturated Nitrile Derivatives . 16th Iranian Pharmaceutical Sciences Congress. October 2019, Kermanshah, Iran

Oraji M, Kobarfard F, **Amidi S**, Esfahanizadeh M. Synthesis of cyanodihydropyrone derivatives from resorcinol and evaluation of their antiplatelet aggregation activity. 2nd international congress on pharmacy updates. 6-8 February-2019-Tehran-Iran

Heidarian E, Kobarfard F, **Amidi S**. Analysis of configuration, structural patterns and functional groups diversity among US FDA approved drug. 2nd international congress on pharmacy updates. 6-8 February-2019-Tehran-Iran

Takrimi, Kobarfard F, Tabib K, **Amidi S**. Determination of Illicit Drugs in Paper Currency of Iran. 2nd international congress on pharmacy updates. 6-8 February-2019-Tehran-Iran

Goodarzi M, Zebardast T, **Amidi S**, Esfahanizadeh M, Kobarfard F. Design and Synthesis of a group of Chalcone derivatives as antiplatelet agents. 2nd international congress on pharmacy updates. 6-8 February-2019-Tehran-Iran

**Amidi S.**, Esfahanizadeh M., Tabatabai A., Soleymani Z., Tabib K., Kobarfard F. Synthesis of guanylhydrazone derivatives of aromatic aldehydes and evaluation of their antiplatelet aggregation activity. 14th Iranian Pharmaceutical Sciences Congress and 1st Symposium of Biopharmaceutics and Pharmacokinetics.(IPSC2015) 21-24 December 2015, Tehran, Iran.

Mostafavi B., Sadeghi E., Oraji M., Faizi M., **Amidi S.**, Kobarfard F. Introducing 4-benzylidene-2-methoxyoxazole-5-one as a new scaffold for anticonvulsant activity. 14th Iranian Pharmaceutical Sciences Congress and 1st Symposium of Biopharmaceutics and Pharmacokinetics.(IPSC2015) 21-24 December 2015, Tehran, Iran.

Esfahanizadeh M., **Amidi S.**, Kobarfard F. 4th National Congress on Medicinal Plants. 12-13 May 2015, Tehran, Iran.

Talaei S., Bayanloo M., **Amidi S.**, Esfahanizadeh M., Kobarfard F. Design and synthesis of pyrazole derivatives as antiplatelet agents. 19th Iranian Pharmacy Students Seminar, 6-9 October 2015, Shiraz, Iran

Oraji M., Sadeghi E., **Amidi S.**, Esfahanizadeh M., Kobarfard F. Synthesis and antiplatelet activity

of some 2-methyl oxazol-5-one derivatives. 19th Iranian Pharmacy Students Seminar, 6-9 October 2015, Shiraz, Iran

Saba S., **Amidi S.**, Kobarfard F. Study and evaluation of extraction capability of PSA and silica for tetracycline in water. 19th Iranian Pharmacy Students Seminar, 6-9 October 2015, Shiraz, Iran

Sadeghi E., Orajji M., Moazzami M., Kobarfard F. **Amidi S.** Iron, manganese and nickel content of canned and glass bottled soft drinks in Iran: a comparative study. National Students Congress on Pharmaceutical Sciences 2014, Mazandaran, Iran.

Saba S., Amidi S., Kobarfard F. Comparison of extraction of capability of mesoporous silica and regular silica gel for tetracycline in water. National Students Congress on Pharmaceutical Sciences 2014, Mazandaran, Iran.

**Amidi S.**, Esfahanizadeh M., Tabib K., Soleymani Z., Kobarfard F. Synthesis of guanylhydrazones derived from arylmethyl ketones as platelet inhibitor agents. The 13th Iranian Pharmaceutical Sciences Conference (IPSC 2012), 2012, Isfahan, Iran.

**Amidi S.**, Kobarfard F., Soleimani Z., Tabib K., Bayandori Moghaddam A., Electrochemical synthesis of novel Miradon® derivatives and evaluation of their antiplatelet aggregation activities. The 12th Iranian Pharmaceutical Sciences Conference (IPSC 2010), 2-5 August- 2010, Zanjan, Iran.

**Amidi S.**, Kobarfard F., Bayandori A. Application of cyclic voltammetry in determination of antioxidant activity of plant extracts. The 13th Seminar of Iranian Pharmacy Students, 23-26 October- 2007, Tabriz, Iran.

**Amidi S.**, Kobarfard F., Moghaddam A.B., Tabib K. Electro-organic synthesis of new derivatives of anisindione with potential anticoagulant properties. The 3rd International Meeting on Medicinal and Pharmaceutical Chemistry, 16-21 October, 2007, Antalya, Turkey.

**Amidi S.**, Kobarfard F., Moghaddam A.B., Tabib K. Studies on the antioxidant activity of some selected medicinal plant using cyclic voltammetry. The 6th International Traditional and Complementary Medicine Conference and 3rd International Congress on Traditional Medicine and Materia Medica, 17-20 July, 2007, Kuala Lumpur, Malaysia.

Aboofazeli R., Moghaddam A.B., **Amidi S.**, Kobarfard F., Tabib K. Application of differential pulse voltammetry in determination of antioxidant properties plant extracts. The 6th International Traditional and Complementary Medicine Conference and 3rd International Congress on Traditional Medicine and Materia Medica, 17-20 July, 2007, Kuala Lumpur, Malaysia.

**Amidi S.**, Kobarfard F., Preparation of new derivatives of catechol with potential effects on adrenergic receptor using electrochemical methods. The 10th Iranian Pharmaceutical Sciences Conference (IPSC 2006), 21-24 August-2006, Tehran, Iran.

## **BOOKS**

Pitfalls and errors of HPLC in pictures. Zarghi A., **Amidi S** Alamdar A., , GharibNaseri N. Tehran, Iran. Farsi language, 2012.

Modern HPLC for practicing scientist- Ahmadi F., Saffari M., **Amidi S.**, editor Zarghi A., 2011

Principles and Applications of Liquid Chromatography – Mass Spectrometry  
Kobarfard F; **Amidi S.** Salekan Publication Co., Tehran, Iran. Farsi language, 2007.

A Synopsis of Antituberculosis Drugs Nazari MA; **Amidi S.** Afrooz Publication Co., Tehran, Iran. Farsi language, 2007

## **AWARDS AND HONORS**

3<sup>rd</sup> place in The 5<sup>th</sup> Festival of Shaheed Beheshti University of Medical Sciences training, 2010.

1st place in PhD board exam in medicinal chemistry, 2009.

1st place in the 3<sup>rd</sup> Annual Congress of Shaheed Beheshti University of Medical Sciences Students, 2007.

1st place in National PhD entrance exam of medicinal chemistry, 2006. Top

student in pharmacy doctorate over a five-year period, 2006.

4<sup>th</sup> place in 20<sup>th</sup> National Pharmacy Comprehensive Examination of Basic Sciences, 2003.

## **RELEVANT SKILLS**

Drug Design

Molecular Docking

Antiplatelet assay