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Medicinal Chemistry Department

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Position:

Professor, Medicinal Chemistry Department, Tehran University of Medical Sciences.

University Education:

1987-1993- Pharm. D., Faculty of pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

1994-1999-Ph.D. (Medicinal Chemistry), Faculty of pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

Postdoctoral Fellow, 1999-2000. Faculty of Pharmacy and Pharmaceutical Sciences, Alberta University, Edmonton, Alberta, Canada.

فعالیت های اجرایی:

- ۱- مدیر گروه شیمی دارویی، دانشکده داروسازی، دانشگاه علوم پزشکی تهران از مهرماه سال ۱۳۸۸ تا ۱۳۹۳
- ۲- مدیر مرکز تحقیقات طراحی و توسعه دارو، دانشگاه علوم پزشکی تهران از دیماه سال ۱۳۸۷ تا کنون
- ۳- عضو هیئت ممکنه و ارزشیابی برد شیمی دارویی، معاونت آموزشی وزارت بهداشت درمان و آموزش پزشکی از بهمن ماه ۱۳۸۶ تا کنون
- ۴- نماینده دانشکده داروسازی در هسته توسعه آموزش دانشگاه از بهمن ماه ۱۳۸۲-۱۳۸۵
- ۵- عضو انجمن فارماکوپه ایران، معاونت دارو و غذا وزارت بهداشت درمان و آموزش پزشکی از سال ۱۳۷۹ تا کنون
- ۶- مدیر آزمایشگاه غذا و دارو - دانشگاه علوم پزشکی تهران ۱۳۹۲ تا کنون

Lectures and Teaching Experience:

Teaching organic chemistry, medicinal chemistry and instrumentation analysis to under graduated student. 75 under graduated students and 35 graduated students have completed Pharm.D. degree or Ph.D. degree under my supervision.

Publications:

1-Khoshbakht, S, Kobarfard, F, Beiki, D. , Sabzevari, O. , Amini, M. , Mehrnejad, F, Tabib, K, Shahhosseini, S., HYNIC a bifunctional prosthetic group for the labelling of peptides with ^{99m}Tc and ^{18}F FDG. (Article) Journal of Radioanalytical and Nuclear Chemistry, 2016, 307 (2), 1125-1134.

2-Norouzi, S., Norouzi, M., Amini, M., Amanzadeh, A., Nabiuni, M., Irian, S. , Salimi, M. Two COX-2 inhibitors induce apoptosis in human erythroleukemia K562 cells by modulating NF- κ B and FHC pathways (Article), DARU, Journal of Pharmaceutical Sciences, 2016 24, 1, 1.

3-Vafaei Seyed Yaser, Esmaeili Motahareh, Amini Mohsen, Atyabi Fatemeh, Ostad Seyed Naser, Dinarvand Rassoul. 2016. "Self assembled hyaluronic acid nanoparticles as a potential carrier for targeting the inflamed intestinal mucosa." Carbohydrate polymers 144: 371-81. doi:10.1016/j.carbpol.2016.01.026.

4-Darvishi Mohammad H, Nomani Alireza, Hashemzadeh Hadi, Amini Mohsen, Shokrgozar Mohammad A, Dinarvand Rassoul. 2016. "Targeted DNA delivery using a biotinylated chitosan carrier to cancer cells." Biotechnology and applied biochemistry doi:10.1002/bab.1497.

5-Behrouz Hossein, Esfandyari-Manesh Mehdi, Khoeeniha Mohammad Kazem, Amini Mohsen, Shiri Varnamkhashti Behrang, Atyabi Fatemeh, et al. 2016. "Enhanced cytotoxicity to cancer cells by co-delivery and controlled release of paclitaxel-loaded sirolimus conjugated albumin nanoparticles." Chemical biology & drug design doi:10.1111/cbdd.12750.

6-Nateghian Navid, Goodarzi Navid, Amini Mohsen, Atyabi Fatemeh, Khorramizadeh Mohammad Reza, Dinarvand Rassoul. 2016. "Biotin/Folate-decorated Human Serum Albumin Nanoparticles of Docetaxel: Comparison of Chemically Conjugated Nanostructures and Physically Loaded Nanoparticles for Targeting of Breast Cancer." Chemical biology & drug design 87 (1): 69-82. doi:10.1111/cbdd.12624.

7-Naghi Saadatjoo, Mohsen Javaheri, Nader Saemian, Mohsen Amini, Synthesis of 11-14C-quetiapine, 11-14C-isoclotiapine and 10-(4-methylpiperazin-1-yl)pyrido[4,3-b][1,4]benzothiazepine[10-14C], 2016, J Radioanal Nucl Chem DOI 10.1007/s10967-016-4798-1

8-Bita Zareian, Sajad Ghadbeighi, Amirali Amirhamzeh, Seyed Nasser Ostad, Abbas Shafiee, Mohsen Amini, Synthesis, Molecular Docking Study, and Cytotoxic Activity of 3,4-diaryl-5-(4-pyridinyl)-1,2,4-oxadiazole, Medicinal Chemistry, 2016, 12, 00-00 1
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9-Maryam Ghasemi, Sajad Ghadbeighi, Amirali Amirhamzeh, Seyed Abbas Tabatabai, Seyed Nasser Ostad, Abbas Shafiee and Mohsen Amini, Synthesis, Molecular Docking Study, and Cytotoxic Activity of 1,3,5-triaryl Pyrazole Derivatives, Letters in Drug Design & Discovery, 2016, 13, 000-000 1
1570-1808/16 \$58.00+.00 ©2016 Bentham Science Publishers

2015

1-Tekie Farnaz Sadat Mirzazadeh, Atyabi Fatemeh, Soleimani Masoud, Arefian Ehsan, Atashi Amir, Kiani Melika, et al. 2015. "Chitosan polyplex nanoparticle vector for miR-145 expression in MCF-7: Optimization by design of experiment." International journal of biological macromolecules 81: 828-37. doi:10.1016/j.ijbiomac.2015.09.014.

2- Kamalinia Golnaz, Khodaghohi Fariba, Shaerzadeh Fatemeh, Tavssolian Faranak, Chaharband Farkhondeh, Atyabi Fatemeh, Sharifzadeh Mohammad, Amini Mohsen, Dinarvand Rassoul, 2015. "Cationic albumin-conjugated chelating agent as a novel brain drug delivery system in neurodegeneration." Chemical biology & drug design 86 (5): 1203-14. doi:10.1111/cbdd.12586.

3- Varnamkhasti Behrang Shiri, Hosseinzadeh Hosniyeh, Azhdarzadeh Morteza, Vafaei Seyed Yaser, Esfandyari-Manesh Mehdi, Mirzaie Zahra H, Amini Mohsen, Ostad Seyed Nasser, Atyabi Fatemeh, Dinarvand Rassoul, 2015. "Protein corona hampers targeting potential of MUC1 aptamer functionalized SN-38 core-shell nanoparticles." International journal of pharmaceutics 494 (1): 430-44. doi:10.1016/j.ijpharm.2015.08.060.

4- Hajimiri Mirhamed, Shahverdi Sheida, Esfandiari Mohammad Amin, Larijani Bagher, Atyabi Fatemeh, Rajabiani Afsaneh, Dehpour Ahmad Reza, Amini Mohsen, Dinarvand Rassoul. "Preparation of hydrogel embedded polymer-growth factor conjugated nanoparticles as a diabetic wound dressing." Drug development and industrial pharmacy 42 (5): 707-19. doi:10.3109/03639045.2015.1075030.

5- Esfandyari-Manesh Mehdi, Mostafavi Seyed Hossein, Majidi Reza Faridi, Koopaei Mona Noori, Ravari Nazanin Shabani, Amini Mohsen, Darvishi Behrad, Ostad Seyed

Nasser, Atyabi Fatemeh, Dinarvand "Improved anticancer delivery of paclitaxel by albumin surface modification of PLGA nanoparticles." *Daru : journal of Faculty of Pharmacy, Tehran University of Medical Sciences* 23: 28. doi:10.1186/s40199-015-0107-8.

6- Darvishi Behrad, Manoochehri Saeed, Kamalinia Golnaz, Samadi Nasrin, Amini Mohsen, Mostafavi Seyyed Hossein, Maghazei Shahab, Atyabi Fatemeh, Dinarvand Rassoul 2015. "Preparation and Antibacterial Activity Evaluation of 18- β -glycyrrhetic Acid Loaded PLGA Nanoparticles." *Iranian journal of pharmaceutical research : IJPR* 14 (2): 373-83.

7-Irannejad, H. ,Nadri, H., Naderi, N., Rezaeian, S.N., Zafari, N., Foroumadi, A., Amini, M., Khoobi, M. Anticonvulsant activity of 1,2,4-triazine derivatives with pyridyl side chain: Synthesis, biological, and computational study (Article), *Medicinal Chemistry Research*. 2015, 24 (6), 2505-2513.

8-Daman, Z., Montazeri, H., Azizi, M., Rezaie, F., Ostad, S.N., Amini, M., Gilani, K. Polymeric Micelles of PEG-PLA Copolymer as a Carrier for Salinomycin Against Gemcitabine-Resistant Pancreatic Cancer (Article), *Pharmaceutical Research*, 2015, 32 (11), 3756-3767.

9-Ghadbeigi, S., Ostad, S.N., Shafiee, A., Amini, M., Synthesis and anticancer activity of 1,3,5-triaryl-1H-pyrazole (Article), *Letters in Drug Design and Discovery*, 2015, 12 (9), 754-759.

10-Mansourpour, M., Mahjub, R., Amini, M., Ostad, S.N., Shamsa, E.S., Rafiee- Tehrani, M., Dorkoosh, F.A. Development of Acid-Resistant Alginate/Trimethyl Chitosan Nanoparticles Containing Cationic β -Cyclodextrin Polymers for Insulin Oral Delivery (Article), *AAPS PharmSciTech*, 2015, 16 (4), 952-9622015,

11-Shafii, N., Khoobi, M., Amini, M., Sakhteman, A, Nadri, H., Moradi, A., Emami, S., Saeedian Moghadam, E., Foroumadi, A., Shafiee, A. Synthesis and biological evaluation of 5-benzylidenerhodanine-3-acetic acid derivatives as AChE and 15-LOX inhibitors (Article), *Journal of Enzyme Inhibition and Medicinal Chemistry*, 2015, 30 (3) 389-395.

12- Norouzi, M.,Norouzi, S., Amini, M., Amanzadeh, A., Irian, S., Salimi, M, Apoptotic effects of two COX-2 inhibitors on breast adenocarcinoma cells through COX-2 independent pathway, *Journal of cellular biochemistry*, 2015, 116 (1) 81-90.

13-Ahmadi, F., Ghayabashi, M.R., Sharifzadeh, M., Alipoour, E., Ostad, S.N., Vosooghi, M., Khademi, H.R., Amini, M, Synthesis and evaluation of anti-inflammatory and analgesic activities of new 1,2,4-triazole derivatives (Article), *Medicinal Chemistry*, 2015, 11 (1) 69-76.

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- 1) Maliheh Barazandeh Tehrani, Hutan Ghanbari, Effat Souri, Fazel Shamsa, and **Mohsen Amini**, Synthesis of 6-(2-Methoxynaphthyl)-2,3-dihydro-1,2,4-triazine-3-thione as a New Reagent for Spectrophotometric Determination of Copper. *International Journal of Analytical Chemistry*, 2014, <http://dx.doi.org/10.1155/2014/260179>
- 2) Marjan Salehi, Seyed Nasser Ostad, Gholam Hossein Riazi, Amir Assadieskandar, Tayebeh Cheraghi-Shavi, Abbas Shafiee, **Mohsen Amini**, Synthesis, cytotoxic evaluation, and molecular docking study of 4,5-diaryl-thiazole-2-thione analogs of combretastatin A-4 as microtubule-binding agents. *Medicinal Chemistry Research*, 2014, 23:1465–1473.
- 3) Reza Ahmadkhaniha, Abdolrahman Nazari, **Mohsen Amini**, Effat Souri, A validated HPLC method for the determination of donepezil in human plasma after derivatization with 9fluorenylmethyl chloroformate, *Journal of Chinese Pharmaceutical Sciences*, 2014, 23(2), 118-123.
- 4) Nima Sepehri, Hasti Rouhani, Ahmad Reza Ghanbarpour, Mehdi Gharghabi, Faranak Tavassolian, **Mohsen Amini**, Seyed Nasser Ostad, Mohammad Hossein Ghahremani, and Rassoul Dinarvand, Human Serum Albumin Conjugates of 7-Ethyl-10-hydroxycamptothecin (SN38) for Cancer Treatment, *BioMed Research International* 2014, <http://dx.doi.org/10.1155/2014/963507>.
- 5) Hamid Irannejad, Abbas Kebriaieezadeh, Afshin Zarghi, Farhad Montazer-Sadegh b, Abbas Shafiee, Amir Assadieskandar, **Mohsen Amini**, Synthesis, docking simulation, biological evaluations and 3D-QSAR study of 5-Aryl-6-(4-methylsulfonyl)-3-(methylthio)-1,2,4-triazine as selective cyclooxygenase-2 inhibitors, *Bioorganic and Medicinal Chemistry*, 2014, 22, 865-873.
- 6) Mohsen Vosooghi & Mohsen Amini, The discovery and development of cyclooxygenase-2 inhibitors as potential anticancer therapies. *Expert Opin. Drug Discov.* (2014) 9(3):255-267.
- 7) M Amini, Ethyl Methanesulfonate, *Encyclopedia of Toxicology*, 2014, 2 <http://dx.doi.org/10.1016/B978-0-12-386454-3.01124-6>.

8) Nahid Mobarghei Dinan, Fatemeh Atyabi, Mohammad-Reza Rouini, Mohsen Amini, Ali-Akbar Golabchifar, Rassoul Dinarvand, Doxorubicin loaded folate-targeted carbon nanotubes: Preparation, cellular internalization, in vitro cytotoxicity and disposition kinetic study in the isolated perfused rat liver.

9) Nahid Mobarghei Dinan, Fatemeh Atyabi, Mohammad-Reza Rouini, Mohsen Amini, Ali-Akbar Golabchifar, Rassoul Dinarvand, Doxorubicin loaded folate-targeted carbon nanotubes: Preparation, cellular internalization, in vitro cytotoxicity and disposition kinetic study in the isolated perfused rat liver. *Materials Science and Engineering C*, 2014, <http://dx.doi.org/10.1016/j.msec.2014.01.055>.

10) Zahra Hamia, Mohsen Amini, Mahmoud Ghazi-Khansari, Seyed Mehdi Rezayat, Kambiz Gilani, Synthesis and in vitro evaluation of a pH-sensitive PLA-PEG-folatebased polymeric micelle for controlled delivery of docetaxel, *Colloids and Surfaces B: Biointerfaces* 116 (2014) 309– 317.

11) Vahideh Masoumi , Ali Mohammadi, Mohsen Amini, Mohammad Reza Khoshayand Rasoul Dinarvand, Electrochemical synthesis and characterization of solid-phase microextraction fibers using conductive polymers: application in extraction of benzaldehyde from aqueous solution, *J Solid State Electrochem*, 2014, DOI 10.1007/s10008-014-2414-2.

12) Marjan Salehi, Seyed Nasser Ostad, Gholam Hossein Riazi, Amir Assadieskandar, Tayebeh Cheraghi-Shavi, Abbas Shafiee, **Mohsen Amini**, Synthesis, cytotoxic evaluation, and molecular docking study of 4,5-diaryl-thiazole-2-thione analogs of combretastatin A-4 as microtubule-binding agents. *Med Chem Res* (2014) 23:1465–1473.

