

CURRICULUM VITAE

Last Name: Haeri

First Name: Azadeh

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Education /Degree

- 2000-2006. PharmD School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU) GPA: 18.39 out of 20; Honor Student.
- 2006- 2012. PhD School of Pharmacy, Shahid Beheshti University of Medical Sciences GPA: 18.50 out of 20; Honor Student.
- 2011-2012. Research scientist at Experimental Surgical Oncology, Department of Surgery, Erasmus Medical Center, Rotterdam, The Netherland.
- European Molecular Biology Organization (EMBO) Fellowship 2012, Title of Project: "Targeted thermosensitive nanoliposomes for specific and improved delivery to breast cancer cells"
- 2012- 2017. Faculty member (Assistant Professor), Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences.

Language skills

- English: TOEFL iBT total score: 105
- Farsi: native language
- Arabic: Only Reading

Publications

- **Patent: (PharmD Thesis project)**
Erfan M, Moghimi HR, **Haeri A**, Jafarzade-Kashi TS, Jafarzade F (2015). Poly(CPP-SA) anhydride as a reactive barrier matrix against percutaneous absorption of toxic chemicals. **US Patent** No. 9011830 B2.
- **Articles (in English):**
 - **Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Shirani, S, Dadashzadeh S. Physicochemical characteristics of liposomes are decisive for their anti-restenosis efficacy following local delivery, *Nanomedicine* IF= 4.8 (2017) 12(2):131-145.
 - **Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Ghassemi S, Radfar F, Dadashzadeh S. Effective attenuation of vascular restenosis following local delivery of chitosan decorated sirolimus liposomes, *Carbohydrate Polymers* IF= 4.2 (2017) 157:1461-1469.
 - Alavi S, **Haeri A**, Dadashzadeh S. Utilization of chitosan-caged liposomes to push the boundaries of therapeutic delivery, *Carbohydrate Polymers* IF= 4.2 (2017) 157:991-1012. Review article.
 - Daeihamed M, Dadashzadeh S, **Haeri A**, Akhlaghi MF. Potential of Liposomes for Enhancement of Oral Drug Absorption. *Current Drug Delivery* 2017 IF= 1.5 14(2):289-303. Review article.
 - Javidi J, **Haeri A**, Shirazi FH, Kobarfard F, Dadashzadeh S. Synthesis, characterization, in vivo imaging, hemolysis, and toxicity of hydrophilic Ag2S near-infrared quantum dots, *Journal of Cluster Science* IF= 1.7 (2017) 28 (1): 165-178.
 - **Haeri A**, Zalba S, ten Hagen TLM, Dadashzadeh S, Koning GA. EGFR targeted thermosensitive liposomes: a novel multifunctional platform for simultaneous tumor targeted and stimulus responsive drug delivery. *Colloids and Surfaces B: Biointerfaces* IF= 3.9 (2016) 146: 657-669.
 - **Haeri A**, Pedrosa L, ten Hagen TLM, Dadashzadeh S, Koning GA. A combined approach of short-chain sphingolipids and thermosensitive liposomes for improved tumor delivery of anticancer drugs. *Journal of Biomedical Nanotechnology* IF= 5.3 (2016) 12: 630-644.

- Sohrabi S, **Haeri A**, Mahboubi A, Mortazavi A, Dadashzadeh S. Chitosan gel-embedded moxifloxacin niosomes: An efficient antimicrobial hybrid system for burn infection. *International Journal of Biological Macromolecules* IF= 3.2 (2016) 85: 625-633.
- Arzani G, **Haeri A**, Daeihamed M, Bakhtiari-Kaboutaraki H, Dadashzadeh S. Niosomal carrier for enhanced oral bioavailability of carvedilol: effect of bile salts enriched vesicles and carrier surface charge, *International Journal of Nanomedicine* IF= 4.3 (2015) 10: 4797-813
- Zalba S, Contreras AM, **Haeri A**, Ten Hagen TLM, Navarro I, Koning GA, Garrido MJ. Cetuximab-oxaliplatin-nanoliposomes for epidermal growth factor receptor targeted chemotherapy of colorectal cancer, *Journal of Controlled Release* IF= 7.7 (2015) 210: 26–38
- Daeihamed M, **Haeri A**, Dadashzadeh S. A simple and sensitive HPLC method for fluorescence quantitation of doxorubicin in micro-volume plasma: applications to pharmacokinetic studies in rats, *Iranian Journal of Pharmaceutical Research* IF= 1.3 (2015) 14: 33-42.
- Li L, Ten Hagen TLM, **Haeri A**, Soullié T, Scholten C, Seynhaeve AL, Eggermont AM, Koning GA. A novel two-step mild hyperthermia for advanced liposomal chemotherapy, *Journal of Controlled Release* IF= 7.7 (2014) 174: 202-8.
- **Haeri A**, Javadian B, Saadati R, Dadashzadeh S. Metabolite parameters as an appropriate alternative approach for assessment of bioequivalence of two verapamil formulations, *Iranian Journal of Pharmaceutical Research* IF= 1.3 (2014) 13: 383-9.
- **Haeri A**, Alinaghian B, Daeihamed M, Dadashzadeh S. Preparation and characterization of stable nanoliposomal formulation of fluoxetine as a potential adjuvant therapy for drug-resistant tumors, *Iranian Journal of Pharmaceutical Research* IF= 1.3 (2014) 13: 3-14.
- **Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Amini M, Lavasanifar A, Dadashzadeh S. Sirolimus-loaded stealth colloidal systems attenuate neointimal hyperplasia after balloon injury: a comparison of phospholipid nanomicelles and liposomes, *International Journal of Pharmaceutics* IF= 4 (2013) 455: 320-30.
- Bajelan E, **Haeri A**, Vali AM, Ostad SN, Dadashzadeh S. Co-delivery of Doxorubicin and PSC 833 (Valspodar) by Stealth Nanoliposomes for Efficient Overcoming of Multidrug Resistance, *Journal of Pharmacy & Pharmaceutical Sciences* IF= 1.7 (2012) 15: 568 –82.
- **Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Erfan M, Dadashzadeh S. PEGylated estradiol benzoate liposomes as a potential local vascular delivery system for treatment of restenosis, *Journal of Microencapsulation* IF= 1.9 (2012) 29: 83-94.
- **Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Boroumand MA, Dadashzadeh S. Use of remote film loading methodology to entrap sirolimus into liposomes: preparation, characterization and in vivo efficacy for treatment of restenosis, *International Journal of Pharmaceutics* IF= 4 (2011) 414: 16-27.
- **Haeri A**, Mostafavi F, Arfaee S, Zarghi A, Dadashzadeh S. LC determination of a novel COX-2 inhibitor in mouse plasma: application to preclinical pharmacokinetic studies, *Asian Journal of Chemistry* IF= 0.4 (2011) 23: 3329 –33.

Accepted manuscripts

- Daeihamed M, **Haeri A**, Dadashzadeh S. Enhancing oral bioavailability of doxorubicin by physicochemical characteristics modulation of liposomal formulation.

• **Books:**

- **Haeri A**, Fahimi F, Tabarsi P. “Clinical Questions and Answers in Tuberculosis, Pneumonia and Swine Flu”. In Farsi, Published by National Research Institute of Tuberculosis and Lung Disease, Masih Daneshvari Hospital, Shahid Beheshti Medical University, 2010.
- Fahimi F, **Haeri A**, Jamaati HR. “Clinical Questions and Answers in Asthma and COPD”. In Farsi, Published by Pharmaceutical Sciences Research Center, Shahid Beheshti Medical University, 2008.

• **Presentations:**

- Sadeghi MS, **Haeri A**, Dadashzadeh S. Preparation and in vitro characterization of tacrolimus loaded phospholipid based nanomedicine. *2nd Iranian Nanomedicine Congress*, Tehran, Iran 2016.

- Haeri A**, Dadashzadeh S, Sadeghian S, Rabbani S, Anvari MS. Lipid based nanoparticle for restenosis treatment. *2nd conference on novel biomedical approaches in cardiovascular diseases*, Tehran, Iran 2016.
- Haeri A**, Dadashzadeh S, Zalba S, ten Hagen TLM, Koning GA. EGFR targeted thermosensitive liposomes: a novel multifunctional platform for simultaneous tumor targeted and stimulus responsive drug delivery. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Haeri A**, Dadashzadeh S, Pedrosa L, ten Hagen TLM, Koning GA. A novel combined approach of short-chain sphingolipids and thermosensitive nanoliposomes for improved tumor delivery of anticancer drugs. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Daeihamed M, **Haeri A**, Ostad SN, Dadashzadeh S. Oral liposomes for improving bioavailability of doxorubicin hydrochloride: Investigating the role of surface charge through in vitro and in vivo studies. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Fazel MT, **Haeri A**, Daeihamed M, Dadashzadeh S. Preparation, in vitro characterization and pharmacokinetic evaluation of Brij coated doxorubicin liposomes as a potential nanocarrier for cancer therapy. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Sohrabi S, **Haeri A**, Mahboubi A, Mortazavi A, Dadashzadeh S. Physical characterization and antimicrobial activity of chitosan hydrogel-embedded moxifloxacin niosomes. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Bakhtiari H, **Haeri A**, Daeihamed M, Dadashzadeh S. Preparation and in vitro characterization of TPGS enriched nano-niosomes as novel carriers for doxorubicin delivery. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Javidi J, **Haeri A**, Shirazi FH, Kobarfard F, Dadashzadeh S. Dose-dependent pharmacokinetics of Ag2S quantum dots following intravenous administration to rats. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Almasi A, Shahhoseini S, **Haeri A**, Dadashzadeh S. Radiolabeling of niosomes by ^{99m}Tc-HMPAO complex as an approach for pharmacokinetic and biodistribution studies. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Norouzi F, Almasi A, **Haeri A**, Dadashzadeh S. Effect of surfactant type, percentage of cholesterol and various particle size reduction methods on mean diameter and poly dispersity index of niosomes. *14th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2015.
- Haeri A**, Dadashzadeh S, Sadeghian S, Rabbani S, Anvari MS; Attenuation of neointimal hyperplasia in balloon-injured blood vessels via local delivery of sirolimus-loaded chitosan coated liposomes, *Nanomedicine in Diagnosis and Treatment of Hard to Treat Disease Congress*, Tehran, Iran 2015.
- Daeihamed M, **Haeri A**, Dadashzadeh S; FDA approved nano-formulations and antibody-drug conjugates for cancer treatment: Strategies and challenges, *Nanomedicine in Diagnosis and Treatment of Hard to Treat Disease Congress*, Tehran, Iran 2015.
- Daeihamed M, **Haeri A**, Dadashzadeh S; Neutral and negatively charged liposomes with good characteristics for oral doxorubicin chemotherapy, *Nanomedicine in Diagnosis and Treatment of Hard to Treat Disease Congress*, Tehran, Iran 2015.
- Daeihamed M, **Haeri A**, Dadashzadeh S; Inclusion of negative charge improves stability of oral nanoliposomes to pH and bile salt in different biorelevant media, *Asian Nanoforum Conference (ANFC)*, Kish, Iran 2015.
- Sohrabi S, **Haeri A**, Dadashzadeh S; Preparation and characterization of moxifloxacin loaded niosomes: effect of surfactant type and loading methodology, *1st Middle East Controlled Released Conference*, Tehran, Iran 2014.
- Arzani G, **Haeri A**, Daeihamed M, Dadashzadeh S; Niosomal carrier for enhanced oral bioavailability of carvedilol: effect of carrier surface charge and vesicles containing bile salts, *1st Middle East Controlled Released Conference*, Tehran, Iran 2014.
- Arzani G, **Haeri A**, Dadashzadeh S; Preparation and in vitro characterization of carvedilol loaded nonionic surfactant based vesicles as a potential oral delivery system, *1st Middle East Controlled Released Conference*, Tehran, Iran 2014.
- Sohrabi S, **Haeri A**, Dadashzadeh S; Active loading methodology to entrap moxifloxacin into niosomes, *2nd National Nano Conference*, Isfahan, Iran 2014.

- Arzani G, **Haeri A**, Dadashzadeh S; Elastic nano-niosomal formulation of carvedilol enhanced oral absorption in rats, *6th national & first international Iranian stroke congress*, Tabriz, Iran 2013.
- Haeri A**, Dadashzadeh S, Sadeghian S, Rabbani S, Anvari MS; Optimization of anti-restenosis liposomal formulation for local vascular delivery: effect of size, lipid composition, surface charge and PEG shielding, *13th Iranian Pharmaceutical Science Conference*, Isfahan, Iran 2012.
- Bajelan E, **Haeri A**, Vali AM, Dadashzadeh S; Preparation and characterization of valspodar loaded nanoliposomes as a potential adjuvant therapy for drug-resistant tumors, *13th Iranian Pharmaceutical Science Conference*, Isfahan, Iran 2012.
- Alinaghian B, **Haeri A**, Dadashzadeh S; Preparation of stable nanoliposomes co-encapsulating doxorubicin and fluoxetine to overcome MDR: effect of lipid composition and PEG coating, *13th Iranian Pharmaceutical Science Conference*, Isfahan, Iran 2012.
- Haeri A**, Sadeghian S, Rabbani S, Anvari MS, Erfan M, Dadashzadeh S; Sirolimus-loaded stealth colloidal systems attenuate neointimal hyperplasia after balloon injury: a comparison of phospholipid nanomicelles and nanoliposomes, *3rd Annual Meeting of American Society of Nanomedicine*, Rockville, USA 2011.
- Bajelan E, **Haeri A**, Vali AM, Ostad SN, Dadashzadeh S; Reversal of multidrug resistance by stealth nanoliposomes co-encapsulating doxorubicin and valspodar, *3rd Annual Meeting of American Society of Nanomedicine*, Rockville, USA 2011.
- Haeri A**, Rabbani S, Sadeghian S, Dadashzadeh S; Preparation and optimization of estradiol loaded PEGylated nanoliposome as a potential vascular delivery system for the treatment of restenosis, *13th Canadian Society for Pharmaceutical Sciences (CSPS) Annual Meeting*, Vancouver, Canada 2010.
- Haeri A**, Mostafavi F, Arfaee S, Zarghi A, Dadashzadeh S; Establishment of an HPLC method for preclinical pharmacokinetic study of a novel COX-2 inhibitor in rabbit, *12th Iranian Pharmaceutical Science Conference*, Zanjan, Iran 2010.
- Haeri A**, Rabbani S, Sadeghian S, Dadashzadeh S; Preparation and optimization of estradiol loaded nanoliposome as a potential vascular delivery system for the treatment of restenosis, *12th Iranian Pharmaceutical Science Conference*, Zanjan, Iran 2010.
- Haeri A**, Mostafavi F, Zarghi A, Dadashzadeh S; A rapid, sensitive HPLC method with UV detection for quantitation of a novel cyclooxygenase inhibitor in mouse plasma: application to preclinical pharmacokinetic studies, *2nd PharmSciFair*, Nice, France 2009.
- Nazari P, Abolhassani FS, **Haeri A**, Rabiei S, Moghimi HR; Dermal and transdermal oligonucleotide delivery, *3rd Iranian Conference of Novel Drug Delivery Systems*, Tehran, Iran 2007.
- Moghimi HR, **Haeri A**, Erfan M; Prevention of percutaneous absorption of nicotine by an interacting polymer, *British Pharmaceutical Conference*, Manchester, UK 2006.
- Azizian H, **Haeri A**, Shaabanzadeh M, Abbasi Nazari M, Azizian J; Synthesis and antimicrobial evaluation of new azole compound (1, 2 diaza-spiro [4, 4] non-2ene with quinoxaline substituted), *10th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2006.
- Moghimi HR, Erfan M, **Haeri A**; Prevention of percutaneous absorption of nicotine by interacting polymers, *10th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2006.
- Moghimi HR, Erfan M, **Haeri A**, Alinaghi A; Studying permeation of nitrofurazone through rat skin, *10th Iranian Pharmaceutical Science Conference*, Tehran, Iran 2006.

Memberships

- European Federation for Pharmaceutical Sciences (EUFEPS)
- Iranian Association of Pharmaceutical Scientists
- Iranian Society of Biopharmaceutics and Pharmacokinetics
- Iranian Society of Pharmacists

Skills

- Preparation of different nanocarriers (liposomes, niosomes and micelles)
- Biodistribution and pharmacokinetics studies
- Absorption studies from skin, nasal, and intestine barriers
- Cell culture studies (cytotoxicity, flow cytometry, confocal microscopy studies and live cell imaging)

- Evaluation of oral bioavailability and bioequivalence studies of drugs in human subjects as well as laboratory animals
- Analysis of drugs in pharmaceutical and biological samples using analytical methods like HPLC
- Screening key formulation parameters and optimization of formulation by statistical design of experiments (DOE)

Honors and award

- First rank among 48 PharmD students.
- 6 months scholarship from the Iranian Ministry of Health and Medical Education to perform a research project in Erasmus Medical Center, Rotterdam, The Netherlands, 2011.
- Akbarieh Award for oral presentation at 12th Iranian Pharmaceutical Science Conference, 2010.

Teaching Activities and Experiences

I have taught following subjects to PharmD and PhD candidates:

- Biopharmaceutics and Pharmacokinetics
- Drug Targeting
- Drug Delivery Systems (DDS): controlled-release DDS (concept, design and economical aspects), Cosmetics, and preformulation studies
- Pharmaceutical processing: mixing, milling, filtration and drying.

Other Experiences

Collaboration as reviewer with *European Journal of Pharmaceutics and Biopharmaceutics*; *International Journal of Nanomedicine*; *Drug Design, Development and Therapy*; *Journal of Microencapsulation*; *Iranian Journal of Pharmaceutical Research* and *Iranian Journal of Pharmaceutical Sciences*

Complementary courses and certificates

- Student assessment workshop, 2014 (Shahid Beheshti University of Medical Sciences)
- Scholarship of teaching and research workshop, 2013 (Shahid Beheshti University of Medical Sciences)
- Patent submission workshop, 2013 (Tarbiyat Modares University)
- Experimental design for screening and optimization workshop, 2009 (Shahid Beheshti University of Medical Sciences)
- Cell culture workshop, 2009 (Research Center and Development, Shahid Beheshti University of Medical Sciences)
- Extrapolation of in vitro data to predict in vivo pharmacokinetics workshop, 2008 (Kerman University of Medical Sciences)
- Courses of SPSS, Reference manager "Endnote", UN-Scan-IT, 2007 (Shahid Beheshti University of Medical Sciences)

Research interest

Evaluation of the pharmacokinetics and biodistribution of drugs and carriers

Development and evaluation of novel drug delivery systems (liposomes, micelles and niosomes) in the treatment of cardiovascular diseases and cancer therapy

Development and evaluation of novel drug delivery systems (liposomes, micelles and niosomes) for improving oral bioavailability of drugs

Drug targeting

Trigger release drug delivery systems

Software's Skills

MS Office programs, Web design

Pharmacokinetics and modeling Software: PKsolver, Monolix,

Optimization software: Design of Experiments