

## CURRICULUM VITAE

**Last Name:** Haeri

**First Name:** Azadeh

**Address:** School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran;

**E-mail:** a\_haeri@sbm.ac.ir; azadehhaeri@yahoo.com

### Education /Degree

- 2000-2006. Pharm. D School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU); Honor Student.
- 2006- 2012. PhD School of Pharmacy, Shahid Beheshti University of Medical Sciences; Honor Student.
- 2011-2012. Research scientist at Experimental Surgical Oncology, Department of Surgery, Erasmus Medical Center, Rotterdam.
- European Molecular Biology Organization (EMBO) Fellowship 2012, Title of Project: "EGFR-targeted thermosensitive nanoliposomes for specific and improved delivery to breast cancer cells"
- 2012- Present. Faculty member (Assistant Professor), Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences.
- 2020- Present. Faculty member (Assistant Professor), Protein Technology Research Center, Shahid Beheshti University of Medical Sciences.

### Language skills

- English Language, TOEFL iBT total score: 105;
- Farsi, native language

### Publications

- **Patent: (Pharm D Thesis project)**  
Erfan M, Moghimi HR, **Haeri A**, Jafarzade-Kash 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):**
  - Yaghoobian M, **Haeri A**, Bolourchian N, Shahhosseni S, Dadashzadeh S. The impact of surfactant composition and surface charge of niosomes on the oral absorption of repaglinide as a BCS II model drug *International Journal of Nanomedicine* (2020) 15:8767-8781.
  - Mehryab F, Rabbani S, Shahhosseini S, Shekari F, Fatahi Y, Baharvand H, **Haeri A**. Exosomes as a next-generation drug delivery system: An update on drug loading approaches, characterization, and clinical application challenges. *Acta Biomaterialia* (2020) 113:42-62.
  - Alavi S, **Haeri A**, Mahlooji I, Dadashzadeh S. Tuning the physicochemical characteristics of particle-based carriers for intraperitoneal local chemotherapy. *Pharmaceutical Research* (2020) 37(6):119.
  - Darvishi M, Farahani S, **Haeri A**. Moxifloxacin loaded lipidic nanoparticles for antimicrobial efficacy. *Current Pharmaceutical Design* (2020).
  - Babadi D, Dadashzadeh S, Osouli M, Daryabari MS, **Haeri A**. Nanoformulation strategies for improving intestinal permeability of drugs: A more precise look at permeability assessment methods and pharmacokinetic properties changes. *Journal of Controlled Release* (2020) 321:669-709.
  - Bayat F, Hosseinpour-Moghadam R, Mehryab F, Fatahi Y, Shakeri N, Dinarvand R, Ten Hagen TLM, **Haeri A**. Potential application of liposomal nanodevices for non-cancer diseases: an update on design, characterization and biopharmaceutical evaluation. *Advances in Colloid and Interface Science* (2020) 277:102121.
  - Mirzaei-Parsa MJ, Najafabadi MRH, **Haeri A**, Zahmatkeshan M, Ebrahimi SA, Pazoki-Toroudi H, Adel M. Preparation, characterization, and evaluation of the anticancer activity of artemether-loaded nano-niosomes against breast cancer. *Breast Cancer*. (2020). 27(2):243-251.
  - Akhlaghi S, Rabbani S, Alavi S, Alinaghi A, Radfar F, Dadashzadeh S, **Haeri A**. Green formulation of curcumin loaded lipid-based nanoparticles as a novel carrier for inhibition of post-angioplasty restenosis. *Materials Science and Engineering C* (2019) 105:110037.

- Alavi S, Akhlaghi S, Dadashzadeh S, **Haeri A**. Green Formulation of Triglyceride/Phospholipid-Based Nanocarriers as a Novel Vehicle for Oral Coenzyme Q10 Delivery. *Journal of Food Science* (2019) 84(9):2572-2583.
- Yaghoobian M, **Haeri A**, Bolourchian N, Shahhosseini S, Dadashzadeh S. An investigation into the role of p-glycoprotein in the intestinal absorption of repaglinide: assessed by everted gut sac and Caco-2 cell line. *Iranian Journal of Pharmaceutical Research* (2019) 18(1):102-110.
- Javidi J, **Haeri A**, Nowroozi F, Dadashzadeh S. Pharmacokinetics, tissue distribution and excretion of Ag<sub>2</sub>S quantum dots in mice and rats: the effects of injection dose, particle size and surface charge. *Pharmaceutical Research*. (2019) 36(3):46.
- Almasi A, Shahhosseini S, **Haeri A**, Daha FJ, Geramifar P, Dadashzadeh S. Radiolabeling of preformed niosomes with [99mTc]: in vitro stability, biodistribution, and in vivo performance. *AAPS PharmSciTech*. (2018) 19(8):3859-3870.
- Ghassemi S, **Haeri A**, Shahhosseini S, Dadashzadeh S. Labrasol-enriched nanoliposomal formulation: novel approach to improve oral absorption of water-insoluble drug, carvedilol. *AAPS PharmSciTech*. (2018) 19(7):2961-2970.
- Nowroozi F, Dadashzadeh S, Soleimanjahi H, **Haeri A**, Shahhosseini S, Javidi J, Karimi H. Theranostic niosomes for direct intratumoral injection: marked enhancement in tumor retention and anticancer efficacy. *Nanomedicine (Lond)*. (2018) 13(17):2201-2219.
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- Fazel M, Daeihamed M, Osouli M, Almasi A, **Haeri A**, Dadashzadeh S. Preparation, in-vitro characterization and pharmacokinetic evaluation of Brij decorated doxorubicin liposomes as a potential nanocarrier for cancer therapy. *Iranian Journal of Pharmaceutical Research* (2018) 17(Suppl2):33-43.
- Nowroozi F, Almasi A, Javidi J, **Haeri A**, Dadashzadeh S. Effect of surfactant type, cholesterol content and various downsizing methods on the particle size of niosomes. *Iranian Journal of Pharmaceutical Research* (2018) 17(Suppl2):1-11.
- **Haeri A**, Osouli M, Bayat F, Alavi S, Dadashzadeh S. Nanomedicine approaches for sirolimus delivery: a review of pharmaceutical properties and preclinical studies. *Artificial Cells Nanomedicine Biotechnology*. (2018) 46(sup1):1-14.
- Heidarli E, Dadashzadeh S, **Haeri A**. State of the art of stimuli-responsive liposomes for cancer therapy. *Iranian Journal of Pharmaceutical Research* (2017) 16(4):1273-1304.
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- **Haeri A**. Combined approach of ligand targeted and stimuli-triggered nanocarriers: a state-of-the-art strategy for cancer treatment. *Iranian Journal of Pharmaceutical Research* (2017) 16(2):411-412.
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- Alavi S, **Haeri A**, Dadashzadeh S. Utilization of chitosan-caged liposomes to push the boundaries of therapeutic delivery. *Carbohydrate Polymers*. (2017) 157:991-1012.
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- **Haeri A**, Sadeghian S, Rabbani S, Shirani S, Anvari MS, Dadashzadeh S. Physicochemical characteristics of liposomes are decisive for their antirestenosis efficacy following local delivery. *Nanomedicine (Lond)*. (2017) 12(2):131-145.
- Daeihamed M, Dadashzadeh S, **Haeri A**, Akhlaghi MF. Potential of liposomes for enhancement of oral drug absorption. *Current Drug Delivery* (2017) 14(2):289-303.

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- **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* (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* (2011) 23: 3329 –33.

- **Books:**

- **Haeri A**, Mehryab F, Moghimi HR, *Advanced Therapy in Cancer: Stimuli-Responsive Nanocarriers for On-Demand Drug Delivery Topics in Anti-Cancer Research: Volume 7*, pp 1-48, 2018.

- **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:**

- **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.
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- **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 2015), Kish, Iran 2015.
- Sohrabi S, **Haeri A**, Dadashzadeh S; Preparation and characterization of moxifloxacin loaded niosomes: effect of surfactant type and loading methodology, *1<sup>st</sup> 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, *1<sup>st</sup> 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, *1<sup>st</sup> Middle East Controlled Released Conference*, Tehran, Iran 2014.
- Sohrabi S, **Haeri A**, Dadashzadeh S; Active loading methodology to entrap moxifloxacin into niosomes, *2<sup>nd</sup> National Nano Conference*, Isfahan, Iran 2014.
- Arzani G, **Haeri A**, Dadashzadeh S; Elastic nano-niosomal formulation of carvedilol enhanced oral absorption in rats, *6<sup>th</sup> 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, *13<sup>th</sup> Iranian Pharmaceutical Science Conference*, Isfahan, Iran 2012.
- Bajelan E, **Haeri A**, Vali AM, Dadashzadeh S; Preparation and characterization of valsopodar loaded nanoliposomes as a potential adjuvant therapy for drug-resistant tumors, *13<sup>th</sup> 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, *13<sup>th</sup> 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, *3<sup>rd</sup> 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 valsopodar, *3<sup>rd</sup> 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, *13<sup>th</sup> 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, *12<sup>th</sup> 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, *12<sup>th</sup> Iranian Pharmaceutical Science Conference*, Zanjan, Iran 2010.
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- Nazari P, Abolhassani FS, **Haeri A**, Rabiei S, Moghimi HR; Dermal and transdermal oligonucleotide delivery, *3<sup>rd</sup> 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-2-ene with quinoxaline substituted), *10<sup>th</sup> Iranian Pharmaceutical Science Conference*, Tehran, Iran 2006.
- Moghimi HR, Erfan M, **Haeri A**; Prevention of percutaneous absorption of nicotine by interacting polymers, *10<sup>th</sup> Iranian Pharmaceutical Science Conference*, Tehran, Iran 2006.
- Moghimi HR, Erfan M, **Haeri A**, Alinaghi A; Studying permeation of nitrofurazone through rat skin, *10<sup>th</sup> 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
- Animal model of restenosis
- Screening key formulation parameters and optimization of formulation by statistical design of experiments (DOE)

### Honors and award

- First rank among 48 PharmD. students.
- Graduated with honor from university and was selected as a talented pharmacy graduate student by Iranian's Pharmacists Association.
- 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 12<sup>th</sup> Iranian Pharmaceutical Science Conference, 2010.

### Teaching Activities and Experiences

I have taught following subjects to pharmacy students:

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

### Other Experiences

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

### Research interest

Development and evaluation of novel drug delivery systems (liposomes, micelles, nanofibers 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

Evaluation of the pharmacokinetics and biodistribution of drugs and carriers

### References

Available upon request