

CURRICULUM VITAE

Last Name: Haeri

First Name: Azadeh

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

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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"
- 2012-2021. Faculty member (Assistant Professor), Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences.
- From 2021 Faculty member (Associate Professor), Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences and Protein Technology Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

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):**
 - M. Vatankhah, S. Dadashzadeh, A. Mahboubi, A. Haeri, K. Jandaghi Alaei, S.B. Mostafavi Naeini, Z. Abbasian, Preparation of multivesicular liposomes for the loco-regional delivery of Vancomycin hydrochloride using active loading method: drug release and antimicrobial properties, *Journal of liposome research*, (2023) 1-11.
 - F. Taghizadeh, F. Mehryab, S.A. Mortazavi, S. Rabbani, A. Haeri, Thiolated chitosan hydrogel-embedded niosomes: A promising crocin delivery system toward the management of aphthous stomatitis, *Carbohydrate polymers*, 318 (2023) 121068.
 - M. Osouli, E. Abdollahizad, S. Alavi, A. Mahboubi, Z. Abbasian, A. Haeri, S. Dadashzadeh, Biocompatible phospholipid-based mixed micelles for posaconazole ocular delivery: Development, characterization, and in - vitro antifungal activity, *Journal of biomaterials applications*, 37 (2023) 969-978.
 - F. Mehryab, F. Taghizadeh, N. Goshtasbi, F. Merati, S. Rabbani, A. Haeri, Exosomes as cutting-edge therapeutics in various biomedical applications: An update on engineering, delivery, and preclinical studies, *Biochimie*, 213 (2023) 139-167.
 - F. Mehryab, S. Rabbani, F. Shekari, A. Nazari, N. Goshtasbi, A. Haeri, Sirolimus-loaded exosomes as a promising vascular delivery system for the prevention of post-angioplasty restenosis, *Drug delivery and translational research*, (2023).
 - H. Karimi, S. Rabbani, D. Babadi, S. Dadashzadeh, A. Haeri, Piperine liposome-embedded in hyaluronan hydrogel as an effective platform for prevention of postoperative peritoneal adhesion, *Journal of microencapsulation*, 40 (2023) 279-301.
 - Y. Hashtrodylar, S. Rabbani, S. Dadashzadeh, A. Haeri, Berberine-phospholipid nanoaggregate-embedded thiolated chitosan hydrogel for aphthous stomatitis treatment, *Nanomedicine (London, England)*, 18 (2023) 1227-1246.
 - P. Cheshmehnoor, S. Rabbani, A. Haeri, Quercetin nanocrystals prepared by a novel technique improve the dissolution rate and antifibrotic activity of quercetin, *Nanomedicine (London, England)*, 18 (2023) 89-107.
 - H. Vaezi, S. Rabbani, S.A. Mortazavi, M. Kamalinejad, A. Haeri, Fabrication, in Vitro, and in Vivo Characterization of Mucoadhesive Berberine-Loaded Blended Wafers for Treatment of Chemotherapy-Induced Oral Mucositis, *AAPS PharmSciTech*, 24 (2022) 19.
 - R. Talimi, Z. Shahsavari, S. Dadashzadeh, T.L.M. Ten Hagen, A. Haeri, Sirolimus-exuding core-shell nanofibers as an implantable carrier for breast cancer therapy: preparation, characterization, in vitro cell studies, and in vivo anti-tumor activity, *Drug development and industrial pharmacy*, 48 (2022) 694-707.
 - M.A. Mahjoub, S. Dadashzadeh, A. Haeri, S. Shahhosseini, Z. Abbasian, F. Nowroozi, Doxorubicin-Loaded Multivesicular Liposomes (DepoFoam) as a Sustained Release Carrier Intended for Locoregional Delivery in Cancer Treatment: Development, Characterization, and Cytotoxicity Evaluation, *Iranian journal of pharmaceutical research : IJPR*, 21 (2022) e134190.
 - A. Efatpanah, S. Rabbani, R. Talimi, S.A. Mortazavi, A. Haeri, Indomethacin Sustained-Release Anti-adhesion Membrane Composed of a Phospholipid and Polycaprolactone Blend, *Iranian journal of pharmaceutical research : IJPR*, 21 (2022) e127353.
 - P. Cheshmehnoor, N. Bolourchian, E. Abdollahizad, A. Derakhshi, S. Dadashzadeh, A. Haeri, Particle Size Tailoring of Quercetin Nanosuspensions by Wet Media Milling Technique: A Study on Processing and Formulation Parameters, *Iranian journal of pharmaceutical research : IJPR*, 21 (2022) e130626.

- D. Babadi, S. Rabbani, S. Akhlaghi, A. Haeri, Curcumin polymeric membranes for postoperative peritoneal adhesion: Comparison of nanofiber vs. film and phospholipid-enriched vs. non-enriched formulations, *International journal of pharmaceutics*, 614 (2022) 121434.
- D. Babadi, S. Dadashzadeh, Z. Shahsavari, S. Shahhosseini, T.L.M. Ten Hagen, A. Haeri, Piperine-loaded electrospun nanofibers, an implantable anticancer controlled delivery system for postsurgical breast cancer treatment, *International journal of pharmaceutics*, 624 (2022) 121990.
- R. Hosseinpour-Moghadam, S. Rabbani, A. Mahboubi, S.A. Tabatabai, A. Haeri, Prevention of abdominal adhesion by a polycaprolactone/phospholipid hybrid film containing quercetin and silver nanoparticles, *Nanomedicine (London, England)*, 16 (2021) 2449-2464.
- R. Hosseinpour-Moghadam, F. Mehryab, M. Torshabi, A. Haeri, Applications of Novel and Nanostructured Drug Delivery Systems for the Treatment of Oral Cavity Diseases, *Clinical therapeutics*, 43 (2021) e377-e402.
- M. Darvishi, S. Farahani, A. Haeri, Moxifloxacin-Loaded Lipidic Nanoparticles for Antimicrobial Efficacy, *Current pharmaceutical design*, 27 (2021) 135-140.
- S. Boroumand, A. Haeri, N. Nazeri, S. Rabbani, Review Insights In Cardiac Tissue Engineering: Cells, Scaffolds, and Pharmacological Agents, *Iranian journal of pharmaceutical research : IJPR*, 20 (2021) 467-496.
- S. Alavi, M.A. Mahjoob, A. Haeri, F.H. Shirazi, Z. Abbasian, S. Dadashzadeh, Multivesicular liposomal depot system for sustained delivery of risperidone: development, characterization, and toxicity assessment, *Drug development and industrial pharmacy*, 47 (2021) 1290-1301.
- M. Yaghoobian, A. Haeri, N. Bolourchian, S. Shahhosseini, S. Dadashzadeh, 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*, 15 (2020) 8767-8781.
- M.J. Mirzaei-Parsa, M.R.H. Najafabadi, A. Haeri, M. Zahmatkeshan, S.A. Ebrahimi, H. Pazoki-Toroudi, M. Adel, Preparation, characterization, and evaluation of the anticancer activity of artemether-loaded nano-niosomes against breast cancer, *Breast cancer (Tokyo, Japan)*, 27 (2020) 243-251.
- F. Mehryab, S. Rabbani, S. Shahhosseini, F. Shekari, Y. Fatahi, H. Baharvand, A. Haeri, Exosomes as a next-generation drug delivery system: An update on drug loading approaches, characterization, and clinical application challenges, *Acta biomaterialia*, 113 (2020) 42-62.
- F. Bayat, R. Hosseinpour-Moghadam, F. Mehryab, Y. Fatahi, N. Shakeri, R. Dinarvand, T.L.M. Ten Hagen, A. Haeri, Potential application of liposomal nanodevices for non-cancer diseases: an update on design, characterization and biopharmaceutical evaluation, *Advances in colloid and interface science*, 277 (2020) 102121.
- D. Babadi, S. Dadashzadeh, M. Osouli, M.S. Daryabari, A. Haeri, Nanoformulation strategies for improving intestinal permeability of drugs: A more precise look at permeability assessment methods and pharmacokinetic properties changes, *Journal of controlled release : official journal of the Controlled Release Society*, 321 (2020) 669-709.
- S. Alavi, A. Haeri, I. Mahlooji, S. Dadashzadeh, Tuning the Physicochemical Characteristics of Particle-Based Carriers for Intraperitoneal Local Chemotherapy, *Pharm Res*, 37 (2020) 119.
- M. Yaghoobian, A. Haeri, N. Bolourchian, S. Shahhosseini, S. Dadashzadeh, 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 : IJPR*, 18 (2019) 102-110.
- J. Javidi, A. Haeri, F. Nowroozi, S. Dadashzadeh, Pharmacokinetics, Tissue Distribution and Excretion of Ag(2)S Quantum Dots in Mice and Rats: the Effects of Injection Dose, Particle Size and Surface Charge, *Pharm Res*, 36 (2019) 46.
- S. Alavi, S. Akhlaghi, S. Dadashzadeh, A. Haeri, Green Formulation of Triglyceride/Phospholipid-Based Nanocarriers as a Novel Vehicle for Oral Coenzyme Q10 Delivery, *J Food Sci*, 84 (2019) 2572-2583.
- S. Akhlaghi, S. Rabbani, S. Alavi, A. Alinaghi, F. Radfar, S. Dadashzadeh, A. Haeri, Green formulation of curcumin loaded lipid-based nanoparticles as a novel carrier for inhibition of post-angioplasty restenosis, *Materials science & engineering. C, Materials for biological applications*, 105 (2019) 110037.
- S. Rabbani, M. Soleimani, M. Sahebjam, M. Imani, A. Haeri, A. Ghiaseddin, S.M. Nassiri, J. Majd Ardakani, M. Tajik Rostami, A. Jalali, S.H. Ahmadi Tafti, Simultaneous Delivery of Wharton's Jelly Mesenchymal Stem Cells and Insulin-Like Growth Factor-1 in Acute Myocardial Infarction, *Iranian journal of pharmaceutical research : IJPR*, 17 (2018) 426-441.
- F. Nowroozi, S. Dadashzadeh, H. Soleimanjahi, A. Haeri, S. Shahhosseini, J. Javidi, H. Karimi, Theranostic niosomes for direct intratumoral injection: marked enhancement in tumor retention and anticancer efficacy, *Nanomedicine (London, England)*, 13 (2018) 2201-2219.
- F. Nowroozi, A. Almasi, J. Javidi, A. Haeri, S. Dadashzadeh, Effect of Surfactant Type, Cholesterol Content and Various Downsizing Methods on the Particle Size of Niosomes, *Iranian journal of pharmaceutical research : IJPR*, 17 (2018) 1-11.
- A. Haeri, M. Osouli, F. Bayat, S. Alavi, S. Dadashzadeh, Nanomedicine approaches for sirolimus delivery: a review of pharmaceutical properties and preclinical studies, *Artificial cells, nanomedicine, and biotechnology*, 46 (2018) 1-14.
- S. Ghassemi, A. Haeri, S. Shahhosseini, S. Dadashzadeh, Labrasol-Enriched Nanoliposomal Formulation: Novel Approach to Improve Oral Absorption of Water-Insoluble Drug, Carvedilol, *AAPS PharmSciTech*, 19 (2018) 2961-2970.
- M. Fazel, M. Daeihamed, M. Osouli, A. Almasi, A. Haeri, S. Dadashzadeh, Preparation, In-Vitro Characterization and Pharmacokinetic Evaluation of Brij Decorated Doxorubicin Liposomes as a Potential Nanocarrier for Cancer Therapy, *Iranian journal of pharmaceutical research : IJPR*, 17 (2018) 33-43.
- A. Almasi, S. Shahhosseini, A. Haeri, F.J. Daha, P. Geramifar, S. Dadashzadeh, Radiolabeling of Preformed Niosomes with [(99m)Tc]: In Vitro Stability, Biodistribution, and In Vivo Performance, *AAPS PharmSciTech*, 19 (2018) 3859-3870.
- E. Heidarli, S. Dadashzadeh, A. Haeri, State of the Art of Stimuli-Responsive Liposomes for Cancer Therapy, *Iranian journal of pharmaceutical research : IJPR*, 16 (2017) 1273-1304.
- M. Hashemi Dehaghi, A. Haeri, H. Keshvari, Z. Abbasian, S. Dadashzadeh, Dorzolamide Loaded Niosomal Vesicles: Comparison of Passive and Remote Loading Methods, *Iranian journal of pharmaceutical research : IJPR*, 16 (2017) 413-422.
- A. Haeri, S. Sadeghian, S. Rabbani, S. Shirani, M.S. Anvari, S. Dadashzadeh, Physicochemical characteristics of liposomes are decisive for their antirestenosis efficacy following local delivery, *Nanomedicine (London, England)*, 12 (2017) 131-145.
- A. Haeri, S. Sadeghian, S. Rabbani, M.S. Anvari, S. Ghassemi, F. Radfar, S. Dadashzadeh, Effective attenuation of vascular restenosis following local delivery of chitosan decorated sirolimus liposomes, *Carbohydrate polymers*, 157 (2017) 1461-1469.

- A. Haeri, Combined Approach of Ligand Targeted and Stimuli-triggered Nanocarriers: a State-of-the-art Strategy for Cancer Treatment, Iranian journal of pharmaceutical research : IJPR, 16 (2017) 411-412.
- M. Daeihamed, A. Haeri, S.N. Ostad, M.F. Akhlaghi, S. Dadashzadeh, Doxorubicin-loaded liposomes: enhancing the oral bioavailability by modulation of physicochemical characteristics, Nanomedicine (London, England), 12 (2017) 1187-1202.
- M. Daeihamed, S. Dadashzadeh, A. Haeri, M.F. Akhlaghi, Potential of Liposomes for Enhancement of Oral Drug Absorption, Current drug delivery, 14 (2017) 289-303.
- S. Alavi, A. Haeri, S. Dadashzadeh, Utilization of chitosan-caged liposomes to push the boundaries of therapeutic delivery, Carbohydrate polymers, 157 (2017) 991-1012.
- S. Sohrabi, A. Haeri, A. Mahboubi, A. Mortazavi, S. Dadashzadeh, Chitosan gel-embedded moxifloxacin niosomes: An efficient antimicrobial hybrid system for burn infection, Int J Biol Macromol, 85 (2016) 625-633.
- A. Haeri, S. Zalba, T.L. Ten Hagen, S. Dadashzadeh, G.A. Koning, EGFR targeted thermosensitive liposomes: A novel multifunctional platform for simultaneous tumor targeted and stimulus responsive drug delivery, Colloids and surfaces. B, Biointerfaces, 146 (2016) 657-669.
- A. Haeri, L.R. Pedrosa, T.L. Ten Hagen, S. Dadashzadeh, G.A. Koning, A Novel Combined Approach of Short-Chain Sphingolipids and Thermosensitive Liposomes for Improved Drug Delivery to Tumor Cells, Journal of biomedical nanotechnology, 12 (2016) 630-644.
- S. Zalba, A.M. Contreras, A. Haeri, T.L. Ten Hagen, I. Navarro, G. Koning, M.J. Garrido, Cetuximab-oxaliplatin-liposomes for epidermal growth factor receptor targeted chemotherapy of colorectal cancer, Journal of controlled release : official journal of the Controlled Release Society, 210 (2015) 26-38.
- M. Daeihamed, A. Haeri, S. Dadashzadeh, 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 : IJPR, 14 (2015) 33-42.
- G. Arzani, A. Haeri, M. Daeihamed, H. Bakhtiari-Kaboutaraki, S. Dadashzadeh, Niosomal carriers enhance oral bioavailability of carvedilol: effects of bile salt-enriched vesicles and carrier surface charge, International journal of nanomedicine, 10 (2015) 4797-4813.
- L. Li, T.L. ten Hagen, A. Haeri, T. Soullié, C. Scholten, A.L. Seynhaeve, A.M. Eggermont, G.A. Koning, A novel two-step mild hyperthermia for advanced liposomal chemotherapy, Journal of controlled release : official journal of the Controlled Release Society, 174 (2014) 202-208.
- A. Haeri, B. Javadian, R. Saadati, S. Dadashzadeh, Metabolite parameters as an appropriate alternative approach for assessment of bioequivalence of two verapamil formulations, Iranian journal of pharmaceutical research : IJPR, 13 (2014) 383-389.
- A. Haeri, B. Alinaghian, M. Daeihamed, S. Dadashzadeh, Preparation and characterization of stable nanoliposomal formulation of fluoxetine as a potential adjuvant therapy for drug-resistant tumors, Iranian journal of pharmaceutical research : IJPR, 13 (2014) 3-14.
- A. Haeri, S. Sadeghian, S. Rabbani, M.S. Anvari, A. Lavasanifar, M. Amini, S. Dadashzadeh, Sirolimus-loaded stealth colloidal systems attenuate neointimal hyperplasia after balloon injury: a comparison of phospholipid micelles and liposomes, International journal of pharmaceutics, 455 (2013) 320-330.
- A. Haeri, S. Sadeghian, S. Rabbani, M.S. Anvari, M. Erfan, S. Dadashzadeh, PEGylated estradiol benzoate liposomes as a potential local vascular delivery system for treatment of restenosis, Journal of microencapsulation, 29 (2012) 83-94.
- E. Bajelan, A. Haeri, A.M. Vali, S.N. Ostad, S. Dadashzadeh, Co-delivery of doxorubicin and PSC 833 (Valspodar) by stealth nanoliposomes for efficient overcoming of multidrug resistance, Journal of pharmacy & pharmaceutical sciences : a publication of the Canadian Society for Pharmaceutical Sciences, Societe canadienne des sciences pharmaceutiques, 15 (2012) 568-582.
- A. Haeri, S. Sadeghian, S. Rabbani, M.S. Anvari, M.A. Boroumand, S. Dadashzadeh, 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, 414 (2011) 16-27.

- **Books:**

- Bayat F, Mehryab F, Akhlaghi S, **Haeri A**, Nanostructured drug delivery approaches for fungal infections in Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance, pp 179-232, 2022.
- **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.

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 12th Iranian Pharmaceutical Science Conference, 2010.

Teaching Activities and Experiences

I have taught following subjects to pharmacy students:

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

Other Experiences

Collaboration as reviewer with *Journal of Controlled Release*, *European Journal of Pharmaceutics and Biopharmaceutics*; *International Journal of Pharmaceutics*; *Scientific Reports*; *Colloids and Surfaces B: Biointerfaces*; *Nanomedicine: Nanotechnology, Biology and Medicine*; *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