

CURRICULUM VITAE

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Education /Degree

- From 2021 **Faculty member (Associate Professor)**, Dean of 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.
- 2012-2021. **Faculty member (Assistant Professor)**, Department of Pharmaceutics and Pharmaceutical Nanotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences.
- 2012 European Molecular Biology Organization (**EMBO**) **Fellowship**,
Title of Project: "EGFR-targeted thermosensitive nanoliposomes for specific and improved delivery to breast cancer cells"
- 2011-2012. **Research scientist** at Experimental Surgical Oncology, Department of Surgery, Erasmus Medical Center, Rotterdam, Netherlands.
- 2006- 2012. **PhD** School of Pharmacy, Shahid Beheshti University of Medical Sciences; Honor Student.
- 2000-2006. **Pharm. D** School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU); Honor Student.

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):**
***corresponding author**
 - F. Taghizadeh, A. Hashemi Baghi, F. Khodadadi, Y. Shahbazi, M. Salehi, S.M. Ayyoubzadeh, **A. Haeri***, Genetic algorithm optimization of tree-based models to predict cargo- and carrier-related factors affecting drug release from liposomes. *Nanoscale*. 2025;17(23):14301-14318. <https://doi.org/10.1039/d5nr00016e>.
 - S. Moayeri-Jolandan, M. Ebrahimnia, M. Torshabi, A.R. Hafezi, A. Mahboubi, **A. Haeri***, Niosome-embedded in situ gels for root canal irrigation: Preparation and optimization of a composite system for chlorhexidine delivery. *Journal of Drug Delivery Science and Technology*. 2025;104(<https://doi.org/10.1016/j.jddst.2024.106467>).
 - M. Mehravaran, **A. Haeri***, S. Rabbani, M. Torshabi, Preparation, Characterization, and Preclinical Efficacy of In Situ Gels Containing Benzydamine Hydrochloride for Oral Mucositis. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*. 2025;113(7. <https://doi.org/10.1002/jbm.b.35611>).
 - M. Ebrahimnia, S. Rabbani, A. Mahboubi, M. Kamalinejad, **A. Haeri***, Preparation, antioxidant, antibacterial, and in vivo evaluation of pomegranate flower extract nanofibers based on thiolated chitosan and thiolated gelatin for treating aphthous stomatitis. *Carbohydrate Polymers*. 2025;351(<https://doi.org/10.1016/j.carbpol.2024.122971>).
 - E. Abdollahizad, **A. Haeri***, A. Jouyban, M.R.A. Mogaddam, Z. Abbasian, S. Dadashzadeh, Pharmacokinetics and Bioequivalence of Two Formulations of Apixaban Tablets: A Double-Blind, Single-Dose, Crossover Study in Healthy Subjects. *IJPR*. 2025;24(1. <https://doi.org/10.5812/ijpr-157714>).
 - R. Yousefi, Y. Rezaee, F. Bayat, E. Rezaee, L. Karami, S. Dadashzadeh, **A. Haeri***, Molecular docking, molecular dynamics simulation, preparation, and characterization of naltrexone-phospholipid complex: A novel cargo with

improved loading into multivesicular liposomes. *Results in Chemistry*. 2024;9(<https://doi.org/10.1016/j.rechem.2024.101656>).

- M. Vatankhah, A. Mahboubi, R. Varshochian, **A. Haeri**, H. Hour, Z. Abbasian, S. Dadashzadeh, Thermosensitive multivesicular liposomal hydrogel: a potential platform for loco-regional drug delivery in the treatment of osteomyelitis caused by antibiotic-resistant biofilm-forming bacteria. *Letters in Applied Microbiology*. 2024;77(10). <https://doi.org/10.1093/lambio/ovae092>.
- M. Vatankhah, S. Dadashzadeh, A. Mahboubi, **A. Haeri**, K. Jandaghi Alae, 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*. 2024;34(1):77-87. <https://doi.org/10.1080/08982104.2023.2220805>.
- L. Tayebi, A. Mahboubi, F. Bayat, S. Moayeri-Jolandan, **A. Haeri***, Photo-Cross-Linked Nanofibers Containing Melissa Officinalis Extract as a Novel Active Food Packaging: An Eco-Friendly Alternative for Plastic Packaging. *Journal of Polymers and the Environment*. 2024;32(9):4385-4404. <https://doi.org/10.1007/s10924-024-03209-5>.
- L. Tayebi, F. Bayat, A. Mahboubi, M. Kamalinejad, **A. Haeri***, Citric acid cross-linked biopolymeric nanofibers containing Zataria multiflora extract, an environmentally friendly active food packaging system. *Journal of Food Measurement and Characterization*. 2024;18(5):3458-3473. <https://doi.org/10.1007/s11694-024-02417-w>.
- F. Taghizadeh, M. Heidari, S. Mostafavi, S.M. Mortazavi, **A. Haeri***, A review of preparation methods and biomedical applications of poly(ϵ -caprolactone)-based novel formulations. *Journal of Materials Science*. 2024;59(24):10587-10622. <https://doi.org/10.1007/s10853-024-09774-3>.
- Y. Rezaee, E. Rezaee, L. Karami, M. Torshabi, **A. Haeri***, Crocin-Phospholipid Complex: Molecular Docking, Molecular Dynamics Simulation, Preparation, Characterization, and Antioxidant Activity. *IJPR*. 2024;23(1). <https://doi.org/10.5812/ijpr-144041>.
- 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*. 2024;14(1):158-176. <https://doi.org/10.1007/s13346-023-01390-z>.
- F. Mehryab, M. Ebrahimi, H. Baharvand, **A. Haeri***, F. Shekari, Extracellular vesicle-based formulation of doxorubicin: drug loading optimization, characterization, and cytotoxicity evaluation in tumor spheroids. *Pharmaceutical Development and Technology*. 2024;29(7):727-737. <https://doi.org/10.1080/10837450.2024.2384448>.
- M. Karimi, S.M. Rezayat, S.A. Mortazavi, **A. Haeri**, M.R. Jaafari, Liposomal factor VIII as an efficient pharmaceutical system for the treatment of hemophilia. *Iranian Journal of Basic Medical Sciences*. 2024;27(6):747-754. <https://doi.org/10.22038/IJBMS.2024.74673.16214>.
- N. Goshtasbi, F. Mehryab, S.A. Mortazavi, R. Ghorbani, **A. Haeri***, Fabrication, Physicochemical Characterization, and in Silico Evaluation of Bilayer Nanofibers as a Potential Sustained Crocin Delivery Dressing. *Journal of Pharmaceutical Innovation*. 2024;19(3). <https://doi.org/10.1007/s12247-024-09838-6>.
- M. Emzhik, A. Qaribnejad, **A. Haeri**, S. Dadashzadeh, Bile salt-enriched vs. non-enriched nanoparticles: comparison of their physicochemical characteristics and release pattern. *Pharmaceutical Development and Technology*. 2024;29(3):187-211. <https://doi.org/10.1080/10837450.2024.2320279>.
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- M. Ebrahimi, S. Alavi, H. Vaezi, M.K. Iradmousa, **A. Haeri***, Exploring the vast potentials and probable limitations of novel and nanostructured implantable drug delivery systems for cancer treatment. *EXCLI Journal*. 2024;23:143-179. <https://doi.org/10.17179/excli2023-6747>.
- Y.K. Doustvaghe, **A. Haeri**, M.M. Sisakht, M.A. Amirkhani, H. Vatanpour, Recombinant human epidermal growth factor-loaded liposomes and transferosomes for dermal delivery: Development, characterization, and cytotoxicity evaluation. *Drug Development Research*. 2024;85(5). <https://doi.org/10.1002/ddr.22234>.
- F. Bayat, Y. Hashtrodylar, H. Karimi, F. Mehryab, **A. Haeri***, A precise look at electrospinning parameters in fabricating the polymeric nanofibers: a review on synthetic and natural polymers. *Journal of Pharmaceutical Investigation*. 2024;54(6):699-750. <https://doi.org/10.1007/s40005-024-00690-x>.
- F. Bayat, A. Hashemi Baghi, Z. Abbasian, S. Dadashzadeh, R. Aboofazeli, **A. Haeri***, Development of an HPLC–UV method for quantification of posaconazole in low-volume plasma samples: design of experiments and machine learning models. *BMC Chemistry*. 2024;18(1). <https://doi.org/10.1186/s13065-024-01349-2>.

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- S. Abedin, J. Ranjbari, **A. Haeri**, H. Vahidi, H. Moghimi, Design and Characterization of an Osmotic Pump System for Optimal Feeding and pH Control in E. coli Culture to Increase Biomass. *IJPR*. 2024;23(1. <https://doi.org/10.5812/ijpr-138677>).
- 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*. 2023;24(1. <https://doi.org/10.1208/s12249-022-02476-6>).
- 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*. 2023;48(12):694-707. <https://doi.org/10.1080/03639045.2022.2161559>.
- 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*. 2023;318(<https://doi.org/10.1016/j.carbpol.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*. 2023;37(6):969-978. <https://doi.org/10.1177/08853282221141962>.
- F. Merati, F. Mehryab, S.A. Mortazavi, **A. Haeri***, An experimental design approach for development of crocin-loaded microparticles embedded in gelatin/oxidized alginate-based hydrogel. *Journal of Pharmaceutical Innovation*. 2023;18(4):1812-1826. <https://doi.org/10.1007/s12247-023-09755-0>.
- 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*. 2023;213:139-167. <https://doi.org/10.1016/j.biochi.2023.05.010>.
- 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*. 2023;40(4):279-301. <https://doi.org/10.1080/02652048.2023.2194415>.
- M. Karamat-Iradmousa, H. Karimi, A. Mahboubi, S. Rabbani, M. Kamalinejad, **A. Haeri***, Bi-layered nanofibers loaded with pomegranate flowers extract as a novel wound dressing: Fabrication, characterization, and in vivo healing promotion. *Industrial Crops and Products*. 2023;202(<https://doi.org/10.1016/j.indcrop.2023.117042>).
- Y. Hashtrodylar, S. Rabbani, S. Dadashzadeh, **A. Haeri***, Berberine-phospholipid nanoaggregate-embedded thiolated chitosan hydrogel for aphthous stomatitis treatment. *Nanomedicine*. 2023;18(19):1227-1246. <https://doi.org/10.2217/nnm-2023-0009>.
- P. Cheshmehnoor, S. Rabbani, **A. Haeri***, Quercetin nanocrystals prepared by a novel technique improve the dissolution rate and antifibrotic activity of quercetin. *Nanomedicine*. 2023;18(2):89-107. <https://doi.org/10.2217/nnm-2022-0032>.
- S. Akhlaghi, S. Rabbani, H. Karimi, **A. Haeri***, Hyaluronic Acid Gel Incorporating Curcumin-Phospholipid Complex Nanoparticles Prevents Postoperative Peritoneal Adhesion. *Journal of Pharmaceutical Sciences*. 2023;112(2):587-598. <https://doi.org/10.1016/j.xphs.2022.10.022>.
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- R. Talimi, S. Rabbani, F. Mehryab, **A. Haeri***, Perivascular application of sirolimus multilayer nanofibrous mat for prevention of vascular stenosis: Preparation, In vitro characterization, and In vivo efficacy evaluation. *Journal of Drug Delivery Science and Technology*. 2022;77(<https://doi.org/10.1016/j.jddst.2022.103816>).
- N. Sharifi, S.A. Mortazavi, S. Rabbani, M. Torshabi, R. Talimi, **A. Haeri***, Fast dissolving nanofibrous mats for diclofenac sodium delivery: Effects of electrospinning polymer and addition of super-disintegrant. *Journal of Drug Delivery Science and Technology*. 2022;73(<https://doi.org/10.1016/j.jddst.2022.103356>).

- M. Mehravaran, **A. Haeri***, S. Rabbani, S.A. Mortazavi, M. Torshabi, Preparation and characterization of benzydamine hydrochloride-loaded lyophilized mucoadhesive wafers for the treatment of oral mucositis. *Journal of Drug Delivery Science and Technology*. 2022;78(<https://doi.org/10.1016/j.jddst.2022.103944>).
- 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. *IJPR*. 2022;21(1. <https://doi.org/10.5812/IJPR-134190>).
- A. Efatpanah, S. Rabbani, R. Talimi, S.A. Mortazavi, **A. Haeri***, Indomethacin sustained-release anti-adhesion membrane composed of a phospholipid and polycaprolactone blend. *IJPR*. 2022;21(1. <https://doi.org/10.5812/ijpr-127353>).
- 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. *IJPR*. 2022;21(1. <https://doi.org/10.5812/ijpr-130626>).
- 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*. 2022;614(<https://doi.org/10.1016/j.ijpharm.2021.121434>).
- 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*. 2022;624(<https://doi.org/10.1016/j.ijpharm.2022.121990>).
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- 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*. 2021;43(12):e377-e402. <https://doi.org/10.1016/j.clinthera.2021.10.016>.
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- D. Babadi, S. Dadashzadeh, M. Osouli, Z. Abbasian, M.S. Daryabari, S. Sadrai, **A. Haeri***, Biopharmaceutical and pharmacokinetic aspects of nanocarrier-mediated oral delivery of poorly soluble drugs. *Journal of Drug Delivery Science and Technology*. 2021;62(<https://doi.org/10.1016/j.jddst.2021.102324>).
- 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*. 2021;47(8):1290-1301. <https://doi.org/10.1080/03639045.2021.1989454>.
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- **Books:**
 - R. Hosseinpour-Moghadam, F. Taghizadeh, N. Goshtasbi, F. Merati, **A. Haeri***, Applications of liposomes for overcoming cancer drug resistance, Functionalized Nanomaterials for Cancer Research: Applications in Treatments, Tools and Devices 2024, pp. 523-542.
 - 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.
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 - **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) and machine learning

Honors and awards

- 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

- Novel approach in designing drug delivery systems through artificial intelligence and machine learning
- Development and evaluation of novel drug delivery systems in the treatment of cardiovascular diseases, tissue engineering, and cancer therapy
- Development and evaluation of novel drug delivery systems for improving the oral bioavailability of drugs
- Evaluation of the pharmacokinetics and biodistribution of drugs and carriers
- Novel approach in the fabrication of drug delivery systems by 3D printing
- Targeted drug delivery by attaching various ligands to nanocarriers
- Trigger release and responsive drug delivery systems
- Combination of active targeting and active triggering to improve drug delivery
- Assessment of the intracellular fate of drug carriers