

Curriculum Vitae

Last name: Mortazavi

First name: Seyedeh Maryam

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

University educations

Doctor of Pharmacy (PharmD) (February 2008- September 2013)

- **From:** School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran; Honor Student
- **Thesis title:** Formulation of propranolol hydrochloride buccoadhesive tablet and evaluation of its physicochemical properties
- **Thesis rating:** Distinguished (honor) - Grade: 20 out of 20.
- **Supervisor:** Professor Seyed Alireza Mortazavi

PhD in Pharmaceutics (September 2013- August 2019)

- **From:** School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran; Honor Student
- **Thesis title:** Investigation the possibility of skin penetration enhancement of KTTKS through terpene- peptide conjugation using cyclic and linear terpenes
- **Thesis rating:** Distinguished (honor) - Grade: 20 out of 20.
- **Supervisors:** Professor Hamid Reza Moghimi and Professor Farzad Kobarfard

Honors and awards

- First rank among 38 PharmD students in Shahid Beheshti University of Medical Sciences
- First rank among 4 PhD students in Shahid Beheshti University of Medical Sciences
- First student of Iran in National Board of Pharmacy (2010)
- First student of Iran in PhD entrance exam (2013)
- First student in pharmaceutics board exam (2015) in Shahid Beheshti University of Medical Sciences
- Chosen as the “Top student of Shahid Beheshti School of pharmacy” by Iranian Association of Pharmacists (2013).
- Chosen as the “Top student of Shahid Beheshti School of pharmacy” in the fifth Shahid Beheshti University of Medical Sciences Annual Educational Festivals (2010).

- Chosen as the “Top student of Shahid Beheshti School of pharmacy” in the sixth Shahid Beheshti University of Medical Sciences Annual Educational Festivals (2011).
- Member of Iran's National Elites Foundation (From 2010 until now)

Publications

Book

- **Mortazavi S.M** and Gandomkarzadeh M. Review of Pharmaceutical. Mahbubi A and Mortazavi S.A. Eds. Etminan, Tehran, 2018.

Book chapter

- **Mortazavi S.M**, Moghimi H.R. and Maibach H.I. "Chemical Modification: An Important and Feasible Method for Improving Dermal and Transdermal Delivery of Peptides and Proteins In: "*Percutaneous Absorption*", 5th ed., Dragecevic, N and Maibach, H.I. Eds. CRC Press, New York, 2020.
- Moghimi H.R, **Mortazavi S.M**, and Maibach H.I. " Drug Permeation through Burn Eschar: Possibilities and Improvements In: "*Percutaneous Absorption*", 5th ed., Dragecevic, N and Maibach, H.I. Eds. CRC Press, New York, 2020.

Papers

- **Mortazavi S.M** and Mortazavi S.A. Propranolol Hydrochloride Buccoadhesive Tablet: Development and In-vitro Evaluation. Iran J Pharm Res, (2019). <https://doi.org/10.22037/ijpr.2019.13866.13346>
- **Mortazavi S.M**, Kobarfard F, Maibach H.I and Moghimi H.R. Effect of palmitic acid conjugation on physicochemical properties of peptide KTTKS: A preformulation study. J Cosmet Sci, (2019); 70 (6): 299-312.
- Ghandali E, Hosseini SM, Moghimi HR, khademi-kalantari k, Moghadam ST, Baghban AA, and **Mortazavi SM**. Intrarterial reliability of sympathetic skin responses in subjects with primary palmar hyperhidrosis. J Bodyw Mov Ther. (2020). <https://doi.org/10.1016/j.jbmt.2020.02.024>
- **Mortazavi S.M**, Kobarfard F, and Moghimi H.R. Terpene conjugation: a novel approach for topical peptide delivery. J Cosmet Sci, (2021).

Conferences

- **Mortazavi S.M**, Kobarfard F and Moghimi H.R (2018). Synthesis and preformulation studies of KTTKS and Pal-KTTKS as anti-wrinkle peptides. The 1st International Congress of Pharmacy Updates, 6-8 February 2018, Tehran, Iran. Oral presentation.
- **Mortazavi S.M** and Mortazavi S.A (2013). Formulation of Propranolol Hydrochloride Buccoadhesive Tablet. The 5th International Conference on Drug Discovery and Therapy, 18-21 February 2013, Dubai, UAE. Poster presentation
- **Mortazavi S.M** and Mortazavi S.A. Evaluation of HPMC-K4M and Carbopol 934p for Preparation of Matrixic System of Propranolol Hydrochloride (2013). The 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, 25-26 February, Tehran, Iran. Poster presentation
- Namini N, **Mortazavi S.M** and Moghimi H.R (2017). Influence of buffer, pH and preparation method on physicochemical properties of solid lipid nanoparticles (SLNs). The 15th Iranian Pharmaceutical Sciences Congress, 17-19 October 2017, Hamedan, Iran. Poster presentation.
- Salehi N, **Mortazavi S.M** and Moghimi H.R (2017). Formulation changes after topical application of creams: a new finding for an ancient system. The 15th Iranian Pharmaceutical Sciences Congress, 17-19 October 2017, Hamedan, Iran. Poster presentation.
- Najafi-Mosleh S, **Mortazavi S.M** and Moghimi H.R (2017). Investigating the effects of applied dose on stability and behavior of topical gels. The 15th Iranian Pharmaceutical Sciences Congress, 17-19 October 2017, Hamedan, Iran. Poster presentation.

Thesis

- Salehi N. Investigating the changes in creams properties following topical application and their influence on the products efficiency (2017-2018). Supervisor: Moghimi H.R and Advisor: **Mortazavi S.M**
- Namini.N. Formulation of urea solid lipid nanoparticle (SLN) gel and evaluation of its hydration effect in rats (in-vivo) (2017-2018). Supervisor: Moghimi H.R and Advisors: Abufazeli R and **Mortazavi S.M.**
- Fatahi E. Mechanistic evaluation of effects of drug properties, microneedle and its applying methods on drug delivery across burned tissues (2018-2019). Supervisor: Moghimi H.R and Ghorbani F and Advisor: **Mortazavi S.M.**
- Talaie S. Formulation of biodegradable tissue adhesives. Supervisor: Moghimi H.R and Advisors: Forutan M and **Mortazavi S.M.**

- Sheikhfalah M.T. Formulation and evaluation of physicochemical properties of cetirizine fast dissolving oral film (2018-2019). Supervisor: Mortazavi S.A and advisor: **Mortazavi S.M**
- Nezafati F. Formulation of pharmaceutical gum containing basil seeds mucilage for reduction of mouth dryness (2018-2019). Supervisors: Mojab F and Mortazavi S.A and advisor: **Mortazavi S.M**

Part-time Industry

- Consultant (2019-2021): Tosan Darou Pharmaceutical Company. Qom, Iran
- Consultant (2015-2017): Dorsa Darou Pharmaceutical Company, and Noor Research and Educational Institute (TAVAN), Tehran, Iran.
- Expert on Knowledge-Based Pharmaceuticals Identification (2013-2014): Magfa company, Tehran, Iran

Some Complementary Courses, Certificates and Experiences

- Classes, Seminars and Workshops of 1st International Nano School. 1-3 March 2015. Pharmaceutical Sciences Research Center at Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- 1st International Marketing Conference on Knowledge-Based Industries. 10 July 2016. Iranian Marketing Research Association. Tehran, Iran.
- Course of reference manager "Endnote". 1 January 2012. Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Collaboration as reviewer with Iranian Journal of Pharmaceutical Research

Research Interests and Activities

- Peptide synthesis and formulation
- Enhancement of peptide skin permeation through chemical modification
- Design of novel dermal and transdermal drug delivery systems (transdermal patches, SLNs, microneedles)
- Development and evaluation of bioadhesive drug delivery systems
- Study of skin absorption mechanism of permeants and nanoparticles
- Skin delivery of peptides and proteins

- Formulation of cosmetic products, especially sunscreens and face masks
- Drug delivery to or through the oral cavity

Professional Skills

- Conventional formulation design (solids, semisolids, and liquids)
- Novel formulation design (bioadhesive systems, SLNs, transdermal patches) specially for skin delivery
- Peptide synthesis through SPPS strategy
- Skin and mucus permeation studies
- Rheological Analysis
- Analysis of interfaces properties (surface tension, critical micelle concentration)