Curriculum Vitae of **Dr Azade Taheri Borujeni** (Pharm D, PhD)

April 2022

Current position:

Associate Professor of Pharmaceutics

Department of Pharmaceutics, Faculty of Pharmacy, Isfahan University of Medical sciences, Isfahan, Iran

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Personal information:

First Name: Azade

Last Name: Taheri Borujeni

Sex: Female

Nationality: Iranian

Date of Birth: 21.09.1983

Language: Persian, English

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Education:

1- **Diploma** in Experimental Sciences, Mojtaheh Amin High School, Borujen, Iran (2001) (A:19.35)

2- **Doctorate of Pharmacy** (**Pharm D**), Tehran University of Medical Sciences, Tehran, Iran (2001-2007) (A:17.70)

3- **Doctorate of Pharmaceutics** (**PhD**), Tehran University of Medical Sciences, Tehran, Iran (2007-2011) (A:18.20)

Honor and Awards:

- Awarded as the **best young researcher** between assistant professors of Faculty of Pharmacy of Isfahan University of Medical Sciences (2018)

- Awarded as the **best Ph.D thesis in the 13th Avecina (Ibne-Sina) Festival**, Tehran University of Medical Sciences (2012)

-**Top student between pharmaceutics Ph.D students** in Tehran University of Medical Sciences, Tehran, Iran (2007-2011).

- **One of the 3 top between Pharm.D students** in Tehran University of Medical Sciences, Tehran, Iran (2001-2007).

-Awarded as the **best poster presenter** in the 12th Iranian pharmacy students seminar, 2006, Sari, Iran.

- Awarded as the **best poster presenter** in the 5th Iranian Controlled Release Conference (ICRC 2011), 4-6 October, 2011, Mashhad, Iran.

Academic Position:

1) **From January 2012-to June 2014**: Assistant Professor of Department of Pharmaceutics at Faculty of pharmacy, Zanjan University of Medical sciences, Zanjan, Iran.

2) **From July 2014 to August 2019**: Assistant Professor of Department of Pharmaceutics at Faculty of pharmacy, Isfahan University of Medical sciences, Isfahan, Iran.

3) **From August 2019 up to now**: Associate Professor of Department of Pharmaceutics at Faculty of pharmacy, Isfahan University of Medical sciences, Isfahan, Iran.

Thesis & Dissertation:

- Preparation and characterization of in situ gel forming systems using PEO-PPO-PEO polymers (Pharm.D. Thesis).

- Preparation and characterization of targeting drug delivery systems using human serum albumin (HSA) nanostructures surface modified with monoclonal antibody (Ph.D. Dissertation).

United States patents:

1) Dinarvand R., Samadi N., **Taheri Borujeni A**., inventors of: Gel based wound dressing and and a method of synthesizing the same. United States Patent Application Publication, Jul. 19, 2012, US 2012/0183585 A1

2) Dinarvand R., Derakhshan M.A., Rahbarizadeh F., Faridi Majidi R., **Taheri Borujeni A.,** Rezayat S.M., inventors of: Multi mode cancer targeted nanoparticulate system and a method of synthesizing the same. United States Patent Application Publication, Application number: 13/347,813.

Iranian patents:

1. Preparation and characterization of in situ gel forming systems using PEO-PPO-PEO polymers and preparation of controlled released form from human growth hormone using this system.

2. Preparation of LHRH targeted methotrexate-human serum albumin conjugated nanoparticles.

Publications:

1. **Taheri A**, Atyabi F, Dinarvand R. Temperature-responsive and biodegradable PVA: PVP k30: poloxamer 407 hydrogel for controlled delivery of human growth hormone (hGH). J. Pediatr. Endocr. Met. 2011;24(3-4):175–79.

2. **Taheri** A, Atyabi F, Salman Nouri F, Ahadi F, Derakhshan MA, Amini M, Ghahremani MH, Ostad SN, Mansoori P, Dinarvand R. Nanoparticles of conjugated methotrexate-human serum albumin: Preparation and cytotoxicity evaluations. J Nanomater. 2011;2011: Article ID 768201.

3. **Taheri A** , Dinarvand R, Atyabi F, Ahadi F, Salman Nouri F, Ghahremani MH, Ostad SN, Taheri Borougeni A, Mansoori P. Enhanced anti-tumoral activity of methotrexate-human serum albumin conjugated nanoparticles by targeting with luteinizing hormone-releasing hormone (LHRH) peptide. Int. J. Mol. Sci. 2011;12:4591-4608.

4. **Taheri A**, Dinarvand R, Atyabi F, Salman Nouri F, Ahadi F, Ghahremani MH, Ostad SN, Taheri Borougeni A, Mansoori P. Targeted delivery of methotrexate to tumor cells using biotin functionalized methotrexate-human serum albumin conjugated nanoparticles. J. Biomed. Nanotechnol. 2011;6:743-53.

5. **Taheri A**, Dinarvand R, Salman Nouri F, Khorramizadeh MR, Taheri Borougeni A, Mansoori P, Atyabi F. Use of biotin targeted methotrexate–human serum albumin conjugated nanoparticles to enhance methotrexate antitumor efficacy. Int. J. Nanomedicine 2011;6:1863–74.

6. **Taheri A**, Dinarvand R, Atyabi F, Amini M, Ghahremani MH, Ostad S. Trastuzumab decorated methotrexate-human serum albumin conjugated nanoparticles for targeted delivery to HER2 positive tumor cells. Eur J Pharm Sci. 2012;47:331-40

7. **Taheri A**, Dinarvand R, Ahadi F, Khorramizadeh MR , Atyabi F. The in vivo antitumor activity of LHRH targeted methotrexate-human serum albumin nanoparticles in 4T1 tumor-bearing Balb/c mice. Int J Pharm. 2012;431(1-2):183-9.

8. Ghorbani A, Soltani Shirazi A, Sametzadeh M, Mansoori P, **Taheri A**. Relation of resistive and pulsatility indices with graft function after renal transplant. Exp Clin Transplant. 2012;10 (6):568-72.

9. Soltanpour S, Panahi-Azar V, **Taheri A**, Bastami Z, Jouyban A. Solubility Data of Diazepam in Binary and Ternary Mixtures of PEGs 200 and 400 with N-Methyl Pyrrolidone and Water at 298.2 K: Experimental Data and Modeling. J Solution Chem. 2013; 42(12): 2281-95.

10. Khanbanha N, Atyabi F, **Taheri A**, Talaie F, Mahbod M, Dinarvand R. Healing efficacy of an EGF impregnated triple gel based wound dressing: in vitro and in vivo studies. Biomed Res Int 2014; 8:493732.

11. **Taheri A**, Bastami Z. Nanomedicine for Diagnosis and Treatment of Cancer in Global Market. J Mazandaran Univ Med Sci. 2014; 24 (115):203-18 (In Persian).

12. Bastami Z, **Taheri A**, Soltanpour S. Formulation, Optimization and characterization of Gemfibrozil Nanocrystals prepared by wet milling technique. Asian J Pharm. 2015;9(1):19-22.

13. **Taheri A**, Mohammadi M. The use of cellulose nanocrystals for potential application in topical delivery of hydroquinone. Chem Biol Drug Des. 2015;86(1):102-6.

14. Taymouri S, **Taheri A**. Use of nanotechnology in diagnosis and treatment of hepatic fibrosis; A review. Curr Drug Deliv. 2016;13(5):662-72.

15. Shoormeij Z, **Taheri A,** Homayouni A. Preparation and physicochemical characterization of meloxicam orally fast disintegration tablet using its solid dispersion. Braz J Pharm Sci. 2017;53(4), e00176.

16. Ghanavati R, **Taheri A,** Homayouni A. Ghanavati R, Taheri A, Homayouni A. Anomalous dissolution behavior of celecoxib in PVP/Isomalt solid dispersions prepared using spray drier. Mater Sci Eng C. 2017;72:501-11.

17. Nurani M, Akbari V, **Taheri A.** Preparation and characterization of metformin surface modified cellulose nanofiber gel and evaluation of its anti-metastatic potentials. Carbohydr Polym. 2017;165:322-33.

18. Dehghani H, **Taheri A,** Homayouni A. Design, optimization and evaluation of orally disintegrating tablet of meloxicam using its menthol based solid dispersions. Curr Drug Deliv. 2017;14(5):709-17.

19. Feizabadi F, Minaiyan M, **Taheri A.** Arginine functionalized bacterial cellulose nanofibers containing gel as an effective wound dressing: in vitro and in vivo evaluation. Curr Drug Deliv. 2018;15(6):840-9.

20. Najar MH, Minaiyan M, **Taheri A**. Preparation and in vivo evaluation of a novel gel-based wound dressing using arginine–alginate surface-modified chitosan nanofibers. J Biomater Appl. 2018;32(6):689-701.

21. Reesi F, Minaiyan M, **Taheri A.** A novel lignin-based nanofibrous dressing containing arginine for wound-healing applications. Drug Deliv Transl Res. 2018;8(1):111-22.

22. Alizadeh N, Akbari V, Nurani M, **Taheri A**. Preparation of an injectable doxorubicin surface modified cellulose nanofiber gel and evaluation of its anti-tumor and anti-metastasis activity in melanoma. Biotechnol Prog. 2018;34(2):537-45.

23. Motallae S, **Taheri A,** Homayouni A. Preparation and characterization of solid dispersions of celecoxib obtained by spray-drying ethanolic suspensions containing PVP-K30 or isomalt. J Drug Deliv Sci Technol. 2018;46:188-96.

24. Varshosaz J, Taymouri S, Jafari E, Jahanian-Najafabadi A, **Taheri A.** Formulation and characterization of cellulose acetate butyrate nanoparticles loaded with nevirapine for HIV treatment. J Drug Deliv Sci Technol. 2018;48:9-20.

25. Hosseini F, Hosseini F, Jafari SM, **Taheri A**. Hosseini F, Hosseini F, Jafari SM, Taheri A. Bentonite nanoclay-based drug-delivery systems for treating melanoma. Clay Miner. 2018;53(1):53-63.

26. Dehkordi NK, Minaiyan M Talebi, A, Akbari V, **Taheri A**. Nanocrystalline cellulose–hyaluronic acid composite enriched with GM-CSF loaded chitosan nanoparticles for enhanced wound healing. Biomed Mater. 2019;14 (3), 035003.

27. Rezazadeh M, Parandeh M, Akbari V, Ebrahimi Z, **Taheri A.** Incorporation of rosuvastatin-loaded chitosan/chondroitin sulfate nanoparticles into a thermosensitive hydrogel for bone tissue engineering: preparation, characterization, and cellular behavior. Pharm Dev Technol. 2019; 24 (3), 357-67.

28. Mahdavi B, Shokrani P, Hejazi SH, Talebi A, **Taheri A.** Doxorubicin-loaded PVP coated Gd2O3 NPs for effective chemoradiotherapy in melanoma. J Drug Deliv Sci Technol. 2019; 53, 101189.

29. Mahdavi BF, **Taheri A**, Hejazi SH, Talebi A, Shokrani P. A protocol for irradiation of cell lines cultured in multi-well plates: effect of air inhomogeneity on irradiated cell survival. Int J Radiat Biol. 2019; 95 (11), 1543-46.

30. Borujeni SH, Mirdamadian SZ, Varshosaz J, Taheri A. Three-dimensional (3D) printed tablets using ethyl cellulose and hydroxypropyl cellulose to achieve zero order sustained release profile. Cellulose 2020; 27 (3), 1573-89.

31. Oveissi F, Tavakoli N, Minaiyan M, Mofid MR, **Taheri A.** Alginate hydrogel enriched with Ambystoma mexicanum epidermal lipoxygenase-loaded pectin nanoparticles for enhanced wound healing. J Biomater Appl. 2020; 34 (8), 1171-87.

32. Ghabdian Y, **Taheri A**, Jahanian-Najafabadi A. Development of novel topical formulation from fullerene with antibacterial activity against Propionibacterium acnes Fuller Nanotub Car N. 2020;29(2):163–73.

33. Keikhosravi N, Mirdamadian SZ, Varshosaz J, **Taheri A.** Preparation and characterization of polypills containing aspirin and simvastatin using 3D printing technology for the prevention of cardiovascular diseases. Drug Dev Ind Pharm. 2020; 46(10):1665–75.

34. **Taheri A**, Rad A, Sadeghi E, Varshosaz J. Comparison of Efficacy and Peripheral Neuropathy of Solvent-based Paclitaxel with Paclitaxel Poliglumex and NK105: A Systematic Review and Meta-Analysis. Curr Pharm Des. 2021; 27(17):2041–2055

35. Esmaeili S, Dayani L, **Taheri A**, Zolfaghari B. Phytochemical standardization, formulation and evaluation of oral hard gelatin capsules from Pinus eldarica bark extract. Avicenna J Phytomedicine. 2021; 11(2):168–179.

36. Khosraviboroujeni A, Mirdamadian SZ, Minaiyan M, **Taheri A.** Preparation and characterization of 3D printed PLA microneedle arrays for prolonged transdermal drug delivery of estradiol valerate. Drug Deliv Transl Res. 2021.

37. Darooee M, Akbari V, **Taheri A.** Inhibition of aldehyde dehydrogenase by furazolidone nanoemulsion to decrease cisplatin resistance in lung cancer cells. Ther Deliv. 2021, 12(8), pp. 611–625.

38. Malekpour Z, Akbari V, Varshosaz J, **Taheri A.** Preparation and characterization of poly (lactic-co-glycolic acid) nanofibers containing simvastatin coated with hyaluronic acid for using in periodontal tissue engineering. Biotechnol Prog. 2021; 37(6), e3195.

39. Farahani-Zangaraki M, **Taheri A**, Etebari M. Niosome-carvedilol protects DNA damage of supraphysiologic concentrations of insulin using comet assay: An in vitro study. Hum Exp Toxicol. 2021; 40 (12_suppl): S150–S157.

40. Soltani R, Saberi, Z, Ghanadian S, **Taheri A**, Entezarhojjat A. The effectiveness of olibanum orally disintegrating tablet in the treatment of oral aphthous ulcers: A randomized, double-blind, placebo-controlled clinical trial. J Res Med Sci, 2022; 27(1):8.

41. Dayani L, Dehghani M, Aghaei M, Taymouri S, **Taheri A.** Preparation and evaluation of targeted albumin lipid nanoparticles with lactobionic acid for targeted drug delivery of sorafenib in hepatocellular carcinoma. J Drug Deliv Sci Technol; 2022, 69: 103142.

42. Mirdamadian SZ, Varshosaz J, Minaiyan M**, Taheri A**. 3D printed tablets containing oxaliplatin loaded alginate nanoparticles for colon cancer targeted delivery. An in vitro/in vivo study. Int J Biol Macromol. 2022; 205:90-109

Abstracts:

1**. Taheri A**, Dinarvand R, In situ forming gels. 12th Iranian pharmacy students seminar, 2006, Sari, Iran

2. **Taheri A**, Dinarvand R, Temperature-responsive and degradable PVA:PVP k 30:poloxamer 407 hydrogel, The 11th Iranian Pharmaceutical Science Conference (IPSC2008), 18-21 August, 2008, Kerman, Iran.

3. **Taheri A**, Dinarvand R, A controlled release system for growth hormone by thermally reversible gels, The 4th Iranian Controlled Release Conference (ICRC 2009), 6-8 October, 2009, Zanjan, Iran.

4. **Taheri A**, Dinarvand R, Temperature responsive and degradable PVA:PVP k30:poloxamer 407 hydrogel, The 4th Iranian Controlled Release Conference (ICRC 2009), 6-8 October, 2009, Zanjan, Iran.

5. **Taheri A**, Dinarvand R, Preparation and evaluation of human serum albumin-methotrexate nanoparticles as a potential drug delivery system for breast cancer. The 12th Iranian Pharmaceutical Science Conference (IPSC2010), 2-5 August, 2010, Zanjan, Iran.

6. Salman Noori F, Dinarvand R, **Taheri A**, Ahadi F, Ghahremani MH, Synthesis and evaluation of human serum albumin-methotrexate-biotin conjugate nanoparticles as a targeted drug delivery system for cancer . The 12th Iranian Pharmaceutical Science Conference (IPSC2010), 2-5 August, 2010, Zanjan, Iran.

7. **Taheri A**, Dinarvand R, Preparation and evaluation of human serum albumin-methotrexate nanoparticles as a potential drug delivery system for cancer, 37th Annual Meeting & Exposition of the Controlled Release Society, 10-14 July, 2010, Portland, Oregon, USA.

8. **Taheri A**, Dinarvand R, Atyabi F, Taheri BorougeniA, Mansoori P, Trastuzumab decorated methotrexate-human serum albumin conjugated nanoparticles for targeted delivery to HER2 positive tumor cells, The 5th Iranian Controlled Release Conference (ICRC 2011), 4-6 October, 2011, Mashhad, Iran.

9. **Taheri A**, Dinarvand R, Atyabi F, Salman Nouri F, Taheri BorougeniA, Mansoori P, Targeted delivery of methotrexate to tumor cells using biotin functionalized methotrexate-human serum albumin conjugated nanoparticles, The 5th Iranian Controlled Release Conference (ICRC 2011), 4-6 October, 2011, Mashhad, Iran.

10. **Taheri A**, Dinarvand R, Atyabi F, Ahadi F, Taheri BorougeniA, Mansoori P, Enhanced anti tumoral activity of methotrexate-human serum albumin conjugated nanoparticles by targeting

with LHRH peptide, The 5th Iranian Controlled Release Conference (ICRC 2011), 4-6 October, 2011, Mashhad, Iran.

11. **Taheri A**, Dinarvand R, Mansoori P, Khorramizadeh M, The in vivo antitumor activity of LHRH targeted methotrexate-human serum albumin nanoparticles in 4T1 tumor-bearing Balb/c mice. 13th Iranian pharmaceutical Sciences Conference, 3-6 Sep 2012, Isfahan,Iran.

12. Mohammadi M, Haji-Seyyed Javadi F, **Taheri A.** The use of nanocrystalline cellulose for potential application in topical delivery of hydroquinone. The 1st Middle East & The 6th Iranian Controlled Release Conference, 25-27 February 2014, Tehran, Iran.

13. Bastami Z, **Taheri A**, Soltanpour S. Formulation, Optimization and characterization of Gemfibrozil Nanosuspension prepared by wet milling technique. The 1st Middle East & The 6th Iranian Controlled Release Conference, 25-27 February 2014, Tehran, Iran.

14. **Taheri A**, Mohammadi M, Mansoori P. The use of cellulose nanocrystals for potential application in drug delivery to skin. TWAS-ROCASA Young Scientists Conference on "Nanoscience & Nanomaterials", 18-20 Feb 2015, Bangalore, India.

15. Hoseinpour M, **Taheri A.** Preparation and characterization of wound dressing using surface modified chitosan nanofibers by arginine. 14th Iranian Pharmaceutical Sciences Conference (IPSC2015), 21-24 December 2015, Tehran, Iran.

16. Raesi F, **Taheri A.** Preparation and characterization of wound dressing using surface modified lignin nanofibers by arginine. 14th Iranian Pharmaceutical Sciences Conference (IPSC2015), 21-24 December 2015, Tehran, Iran.

17. Mansoori P, **Taheri A.** Preparation and characterization of wound dressing using surface modified lignin nanofibers by arginine. 9 th European and Global Summit for Clinical Nanomedicine, Targeted Delivery and Precision Medicine, 26-29 June 2016, Basel, Switzerland.

18. **Taheri A**, Mansoori P. Preparation and characterization of wound dressing using surface modified chitosan nanofibers by arginine. 9 th European and Global Summit for Clinical Nanomedicine, Targeted Delivery and Precision Medicine, 26-29 June 2016, Basel, Switzerland.

19. **Taheri A**, Ghabdian Y, Preparation and characterization of chitosan surface modified nanofullerene-glycine containing topical gel as novel nanobiotic for the treatment of acne, 2nd Middle East/ 7th Iranian Controlled Release Conference (ICRC 2017), 21-23 February 2017, Kerman, Iran.

20. Rouhani F, **Taheri A**, Sadri F, Preparation and evaluation of naproxen nanocrystals to improve its water solubility, 20 th Iranian Pharmacy students Seminar, 12-14 April 2017, Tehran, Iran.

21. Malekpour Z, **Taheri A,** Preparation and characterization of PLGA nanofibers containing simvastatin and surface modified with hyaluronic acid for using in cartilage tissue engineering, 20 th Iranian Pharmacy students Seminar, 12-14 April 2017, Tehran, Iran.

22. Ghabdian Y , **Taheri A** , Jahanian Najafabadi A, Preparation and characterization of chitosan surface modified nanofullerene-glycine containing topical gel as novel nanobiotic for the treatment of acne, 20 th Iranian Pharmacy students Seminar, 12-14 April 2017, Tehran, Iran.

23. Sana P.Chegini, **Taheri A**. Nanofiber based drug delivery system for prevention of local cancer recurrence following surgery, 15th Iranian Pharmaceutical Sciences Conference (IPSC2017), 17-19 October 2017, Tehran, Iran.

Workshops

--"Current problems in medical writing and editing", Tehran University of Medical Sciences, Tehran, 2010, (2 day).

--"Scientific writing", Tehran University of Medical Sciences, Tehran, 2011, (2 day).

--"Patent registration", Mashhad University of Medical Sciences, Mashhad, 2011, (1 day).

-- Principle of search (primary), Isfahan University of Medical Sciences, Mashhad, 2014, (1 day)

-- Evaluation of searching and training), Isfahan University of Medical Sciences, Mashhad, 2015, (1 day).

-- Principle of training (primary), Isfahan University of Medical Sciences, Mashhad, 2015, (1 day).

-- SPSS (primary), Isfahan University of Medical Sciences, Mashhad, 2015, (4 day).

Teaching experience:

2011- Present "Pharmaceutical science" for Pharm.D students (Zanjan and Isfahan University of Medical Science)

2011- Present "Physical pharmacy" for Pharm.D students (Zanjan and Isfahan University of Medical Science)

2011- Present "Pharmaceutical science" for PhD students of pharmaceutics (Zanjan and Isfahan University of Medical Science)

2011- Present "Physical pharmacy" for PhD students of pharmaceutics (Zanjan and Isfahan University of Medical Science)

2011- Present "Indastrial pharmacy" for PhD students of pharmaceutics (Zanjan and Isfahan University of Medical Science)

2011- Present "Biomedical nanotechnology" for Ph.D students of Pharmaceutical Nanotechnology (Zanjan and Isfahan University of Medical Science)

2011 "Nanbiotechnology and biomaterial" for Ph.D students of Pharmaceutical Nanotechnology (Isfahan University of Medical Science).

Fields of interest:

- Using of 3D Printing Technology for Biomedical Applications .
- Using of Natural Cyclotides as Drug Delivery Systems for Treatment of Multiple Sclerosis.
- Using of Natural Nanofibers as Drug Delivery Systems for Treatment of tumors and Prevention of Metastasis.
- Using of Natural Nanofibers as Drug Delivery Systems for Wound Healing.
- Using of Nanocelluloses as Drug Delivery Systems for drug delivery to skin and wound healing.
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References:

- **Prof. R. Dinarvand, Faculty of Pharmacy, Tehran University of Medical sciences, Tehran, Iran.**

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