

Curriculum Vitae

Hajar Ashrafi, Pharm. D., Ph.D

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Personal Information:

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Current Position:

Assistant Professor

Education (academic degrees):

Ph.D. in Pharmaceutics (2009-2014)

Thesis title: Preparation and evaluation of a novel delivery system for L-asparaginase based on lipid-protein bioconjugates

Under the supervision of Prof. S. Daneshamouz, Prof. S. Mohammadi-Samani and Prof. M. Amini

Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

Pharm. D. (2002-2009)

Thesis title: Preparation and Characterization of Hydrogel Nanoparticles for Intravenous Delivery of Desferrioxamine

Under the supervision of Prof. M. Hamidi and Prof. S. Mohammadi-Samani

Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

Publications:

I) Books & E-Books:

1. Hamidi M. et al. *Pharmacy Practice*, 2007, Dehesh Press, Shiraz, Iran. (book)
2. Hamidi M., Shahbazi MA. and **Ashrafi H.**, 2012, *Drug Abuse in Sport; Doping*, Nova Scientific Publishers, New York. (book)
3. Hamidi M. et al. *Pharmacy Practice*, 2009, Health Development Institute, Tabriz, Iran (in Persian language). (e-book)

II) Articles:

1. Rostamizadeh K., **Ashrafi H.**, Azadi A., Hamidi M. Carbohydrate polymers in drug and gene delivery, In: *Encyclopedia of Biomedical Polymers and Polymeric Biomaterials*, (Munmaya Mishra et al. Eds). Taylor & Francis Group, New York. (In Press)
2. Abolhasanzadeh Z, **Ashrafi H.**, Badr P, Azadi A. Traditional neurotherapeutics approach intended for direct nose to brain delivery. *Journal of Ethnopharmacology*. 2017;209:116-23.
3. Azadi S, **Ashrafi H.**, Azadi A. Mathematical modeling of drug release from swellable polymeric nanoparticles. *Journal of Applied Pharmaceutical Science* Vol. 2017;7(04):125-33.
4. Azadi S, Azadi A, **Ashrafi H.**, Mohammadi-Samani S. A reversed-phase high performance liquid chromatography approach for analysis of 5-Fluorouracil. *Trends in Pharmaceutical Sciences*. 2017;3(1):49-54.
5. **Ashrafi H.**, Azadi A. Chitosan-based hydrogel nanoparticle amazing behaviors during transmission electron microscopy. *International journal of biological macromolecules*. 2016;84:31-4.
6. Jahromi LP, Mohammadi-Samani S, **Ashrafi H.**, Azadi A. A Reversed-phase High Performance Liquid Chromatography (HPLC) method for bio-analysis of Methotrexate. *Trends in Pharmaceutical Sciences*. 2016;2(2).

7. Azadi A, **Ashrafi H**. Cell organelle-shaped liposomes: A novel approach to present the stable intracellular drug delivery systems. *Trends in Pharmaceutical Sciences*. 2016;2(2).
8. **Ashrafi H**, Amini M, Mohammadi-Samani S, Ghasemi Y, Azadi A, Tabandeh MR, et al. Nanostructure L-asparaginase-fatty acid bioconjugate: Synthesis, preformulation study and biological assessment. *International journal of biological macromolecules*. 2013;62:180-7.
9. Hamidi M, Azadi A, Rafiei P, **Ashrafi H**. A pharmacokinetic overview of nanotechnology-based drug delivery systems: an ADME-oriented approach. *Critical Reviews™ in Therapeutic Drug Carrier Systems*. 2013;30(5).
10. Hamidi M, **Ashrafi H**, Azadi A. Surface Functionalized Hydrogel Nanoparticles. *Biomedical Materials and Diagnostic Devices*. 2012:191-213.
11. Hamidi M, Azadi A, **Ashrafi H**, Rafiei P, Mohammadi-Samani S. Taguchi orthogonal array design for the optimization of hydrogel nanoparticles for the intravenous delivery of small-molecule drugs. *Journal of Applied Polymer Science*. 2012;126(5):1714-24.
12. Hamidi M, Azadi A, Mohammadi-Samani S, Rafiei P, **Ashrafi H**. Valproate-Loaded hydrogel nanoparticles: Preparation and characterization. *Journal of Applied Polymer Science*. 2012;124(6):4686-93.

III) Abstracts:

1. **Ashrafi H**, Amini M., Mohammadi-Samani S., Ghasemi Y., Azadi A, Daneshamouz S., Preparation, *in vitro* and *in vivo* characterization of protein-lipid bioconjugate as a novel drug delivery system for L-asparaginase. The 1st Middle East & The 6th Iranian Controlled Release Conference 2014, Tehran, Iran
2. **H. Ashrafi**, M. Amini, S. Mohammadi-Samani, Y. Ghasemi, A. Azadi, S. Daneshamouz, *L-Asparaginase-fatty acid bioconjugates in nanostructured mixed micelles: synthesis, biochemical/biophysical characterization, immunogenicity and pharmacokinetic analysis of peptidic anticancer agent*, FIP 2014
3. **H. Ashrafi**, S. Daneshamouz, M. Amini, S. Mohammadi-Samani, Y. Ghasemi, M.R. Tabandeh, *Bioconjugation of protein: A novel delivery system for L-Asparaginase*,

The 13th Iranian Pharmaceutical Sciences Congress (IPSC 2012) 3-6 September, Esfahan, Iran

4. S. Mohammadi-Samani, M. Hamidi, B. Kiani-Dehkordi, **H. Ashrafi**, *Preparation, Optimization and In vitro Characterization of Phenytoin Nanosuspension*, The 5th Iranian Control Release Conference, (ICRC 2011) 4-6 October, mashhad, Iran.
5. **H. Ashrafi**, M. Hamidi, S. Mohammadi-Samani, *Preparation and Characterization of Hydrogel Nanoparticles for Long-Circulating Delivery of Desferrioxamine*, The 5th Iranian Control Release Conference, (ICRC 2011) 4-6 October, mashhad, Iran.
6. **Ashrafi H.**, Azadi A., Hamidi M., *Preparation of freeze-dried nanopowder from a drug loaded chitosan-TPP nanoparticles*, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010) 2-5 August 2010, Zanjan, Iran
7. **Ashrafi H.**, Hamidi M., *A simple and rapid complexometric method for quantitation of desferrioxamine in dosage forms and drug delivery*, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010) 2-5 August 2010, Zanjan, Iran
8. Azadi A., **Ashrafi H.**, Rafiei P., Hamidi M., *The importance of experimental design in optimizing Hydrogel nanoparticle preparation*, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010) 2-5 August 2010, Zanjan, Iran
9. **Ashrafi H.**, Hamidi M., *New method for the in-vitro in-vivo correlation of iron binding capacity of the Desferrioxamine-loaded nanoparticles*, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010) 2-5 August 2010, Zanjan, Iran
10. **Ashrafi H.**, Hamidi M., *Pharmacy practice: A modern perspective of an old profession*, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010) 2-5 August 2010, Zanjan, Iran
11. M. Hamidi, S. Mohammadi-Samani, **H. Ashrafi**, A. Azadi, *Preparation and Characterization of Hydrogel Nanoparticles for Long-Circulating Delivery of Desferrioxamine*, The Forth Iranian Control Release Conference (ICRC 2009), October 2009, Zanjan, Iran.
12. M. Hamidi, A. Azadi, S. Mohammadi-Samani, P. Rafiei, **H. Ashrafi**, *Evaluation and optimization of sodium valproate loading in chitosan-TPP hydrogel nanoparticles*, The Forth Iranian Control Release Conference (ICRC 2009), October 2009, Zanjan, Iran.

13. Hamidi M., Mohammadi-Samani S., **Ashrafi H.**, Azadi A., *Preparation of Chitosan Nanoparticles Loaded By Desferrioxamine*, 2nd International Congress on Nanoscience and Nanotechnology 2008 (ICNN2008), October 2008, Tabriz, Iran.
14. **Ashrafi H.**, Hamidi M., Mohammad-Samani S., Azadi A., *Preparation of chitosan nanoparticles loaded by desferrioxamine*, 11th Iranian pharmaceutical sciences congress (IPSC 2008), August 2008, Kerman, Iran.
15. Ahmadpour Y., Omidi-Najafabadi M., **Ashrafi H.**, Mohammad-Samani S., Hamidi M., *Preparation and evaluation of carrier erythrocyte, loaded by desferrioxamine, using hypotonic preswelling method*, 11th Iranian pharmaceutical sciences congress (IPSC 2008), August 2008, Kerman, Iran.
16. **Ashrafi H.**, Hamidi M., *Pharmacist's position in modern health-care system*, 11th Iranian pharmaceutical sciences congress (IPSC 2008), August 2008, Kerman, Iran
17. M. Hamidi, Y. Ahmadpour, **H. Ashrafi**, *Preparation and evaluation of carrier erythrocytes, loaded by deferoxamine, using hypotonic preswelling method*. The 13th seminar of Iranian Pharmacy students, 2008, Sari, Iran.
18. Hamidi M, Mohammadi-Samani S, **Ashrafi H.** Ahmadpour Y, Azadi A, Omidi M, Dinari N, *Preparation of chitosan nanoparticles loaded by desferrioxamine*, The 8th Annual research congress of Iranian Medical Science Students, The first international student congress on medical research (ARCMS 2007), shiraz, Iran
19. M. Hamidi, S. Mohammadi-Samani, **H. Ashrafi**, Y. Ahmadpour, A. Azadi, M. Omidi, N. Dinari, *Preparation of Chitosan Nanoparticles Loaded By Desferrioxamine*, 3rd Iranian Conference of Novel Drug Delivery Systems, 21st -22nd June 2007, Tehran – Iran
20. M. Hamidi, S. Mohammadi Samani, A. Azadi, **H. Ashrafi**, N. Dinari, M. Omidi Najafabadi, *Preparation of sodium valproate-loaded chitosan nanoparticles based on ionic gelation process*, 3rd Iranian Conference of Novel Drug Delivery Systems, 21st -22nd June 2007, Tehran – Iran
21. M. Hamidi, **H. Ashrafi**, Y. Ahmadpour, *Preparation of carrier erythrocyte loaded by desferrioxamine using hypoosmotic dialysis method*. The 6th Research Day Conference of Pharmacy Students. Jan. 2, 2007. Shiraz, Iran.

22. M. Hamidi, Y. Ahmadpour, **H. Ashrafi**, *Preparation and evaluation of carrier erythrocytes, loaded by deferoxamine, using hypotonic preswelling method*. The 7th Research Day Conference of Pharmacy Students. Jan. 2, 2007. Shiraz, Iran.
23. M. Hamidi, S. Mohammadi Samani, A. Azadi, **H. Ashrafi**, *Preparation of sodium valproate-loaded chitosan nanoparticles based on ionic gelation process*, The 7th Research Day Conference of Pharmacy Students. December 25, 2007. Shiraz, Iran.
24. Hamidi M, **Ashrafi H.**, Ahmadpour Y, *Preparation of Carrier, Loaded by Desferrioxamine Using Hypoosmotic Dialysis Method*, 10th Iranian Seminar of Pharmaceutical Sciences, August 2006, Tehran, Iran.
25. Hamidi M, **Ashrafi H.**, Ahmadpour Y, *Preparation and Evaluation of Carrier Erythrocytes, Loaded by Deferoxamine Using Hypotonic Preswelling Method*, 10th Iranian Seminar of Pharmaceutical Sciences, August 2006, Tehran, Iran.

IV) Lectures and Seminars:

1. **Ashrafi H.**, Azadi A., Hamidi M., *Preparation of freeze-dried nanopowder from a drug loaded chitosan-TPP nanoparticles*, **The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010)** 2-5 August 2010, Zanjan, Iran
2. Mehrdad Hamidi, Soliman Mohammadi-Samani , **Hajar Ashrafi** , Amir Azadi , Hajar Ashrafi, *Preparation and Characterization of Hydrogel Nanoparticles for Long-Circulating Delivery of Desferrioxamine*, **The 4th Iranian Control Release Conference**, October 2009, Zanjan, Iran. (in English)
3. Pharmacy Practice, A Seminar Panel Organized and presented in 10th Iranian Pharmaceutical Sciences Congress, Tehran, Iran, August 2006.

V) Memberships:

1. Iranian Medical Council
2. Iranian Pharmaceutical Association
3. Iranian nanotechnology initiative council

VI) Skills

1. High performance liquid chromatography (HPLC)

2. Polymeric nanoparticles preparation and characterization (*in vitro* and *in vivo*)
3. Protein and peptide drug delivery and Analysis
4. Pharmacokinetic studies on animal models
5. Experimental design