

# Curriculum Vitae

Amir Azadi, Pharm. D., PhD

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## Personal Information:

**Name:** Amir

**Surname:** Azadi

**Date and Place of Birth:** 1982, 21<sup>th</sup> December, Shiraz, Iran

**Sex:** Male

**Marital Status:** Married

### Address:

Department of Pharmaceutics,

School of Pharmacy,

Shiraz University of Medical Sciences,

Shiraz, IRAN.

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### Current Position:

Assistant Professor



## **Education (academic degrees):**

### **Ph.D. in Pharmaceutics (2008-2014)**

**Thesis title:** Neuropharmacokinetic evaluation of Methotrexate-loaded hydrogel nanoparticles.

Under the supervision of: Prof. M.R. Rouini and Prof. M Hamidi

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

### **Pharm. D. (2001-2008)**

**Thesis title:** Preparation and *in vitro* Characterization of Hydrogel Nanoparticles for Intravenous Long-circulating Delivery of Sodium Valproate.

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

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

# Publications:

## I) Chapters in Book

1. Hamidi M., Ashrafi H., Azadi A., *Surface functionalized hydrogel Nanoparticles*, In: **Biomedical Materials and Diagnostic Devices** (Ashoutish Tiwari et al. Eds.), 2012, Scrivener Publishers, New York. ISBN: 9781118030141
2. Rostamizadeh K, Ashrafi H, Azadi A, Hamidi M., (2015) *Carbohydrate Polymers: Drug and Gene Delivery*, In: **Encyclopedia of Biomedical Polymers and Polymeric Biomaterials**, *Taylor and Francis*, New York, PP. 1319-1333.

## II) Peer-reviewed Review and original Articles:

1. Badr P, Abolhasanzadeh Z, Aminsafae M, Azadi A, Mohagheghzadeh A. Entrepreneurship Based on Traditional Iranian Medicine Manuscripts: Winter Startup 2016 by Phytopharmaceutical Technology and Traditional Medicine Incubator (Shiraz). *Traditional and Integrative Medicine*. 2017;2(1):9-14.
2. 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.
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. Zargaran A, Faridi P, Daneshamouz S, Borhani-Haghighi A, Azadi A, Hashempur M. Renovation and standardization of a historical pharmaceutical formulation from Persian Medicine: chamomile oil. *Trad Integr Med*. 2016;1(3):108-14.
5. Poortalebi-Jahromi L, 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).

6. Niknam F, Azadi A, Faridi P, Tanideh N, Zarshenas MM. Evaluation of possible preventive activity of *Elaeagnus angustifolia* L. against osteoporosis, an in vivo study. *Trends in Pharmaceutical Sciences*. 2016;2(4).
7. Niknam F, Azadi A, Barzegar A, Faridi P, Tanideh N, Zarshenas MM. Phytochemistry and Phytotherapeutic Aspects of *Elaeagnus angustifolia* L. *Current drug discovery technologies*. 2016;13(4):199-210.
8. Mohagheghzadeh A, Zargaran A, Faridi P, Daneshamouz S, Borhani-Haghighi A, Azadi A, et al. Renovation and standardization of a historical pharmaceutical. *Traditional and Integrative Medicine*. 2016;1(3):108-14.
9. Dabaghian F, Khademian S, Azadi A, Zarshenas M. Fingerprints, Pharmaceutical and Radical Scavenging Activity Evaluation of an Alzheimer-Targeted Herbal Preparation. *Iranian journal of medical sciences*. 2016;41(3 Suppl):S6.
10. Azadi A, Mozafari N. Simvastatin: A hopeful promise for treatment of retinopathy and neuropathy in diabetic patients. *International Journal of Pharmaceutical and Clinical Research*. 2016;8(8):1163-5.
11. Azadi A, Forouzani-Haghighi B, Dorvash MR. Metformin: A promising outlook in treatment of acne vulgaris. *International Journal of Pharmaceutical and Clinical Research*. 2016;8(9):1274-7.
12. Azadi A, Barati M. Potential therapeutic target of tramadol in management of epilepsy. *International Journal of Pharmaceutical and Clinical Research*. 2016;8(10):1438-40.
13. 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).
14. Ashrafi H, Azadi A. Chitosan-based hydrogel nanoparticle amazing behaviors during transmission electron microscopy. *International Journal of Biological Macromolecules*. 2016;84:31-4.

15. Azadi A, Rouini MR, Hamidi M. Neuropharmacokinetic evaluation of methotrexate-loaded chitosan nanogels. *International Journal of Biological Macromolecules*. 2015;79:326-35.
16. Azadi A, Morowvat MH, Sakhteman A, Mohagheghzadeh A. Pharmacy or PharmaNBIC: Thinking about 50 years ahead of pharmacy. *Trends in Pharmaceutical Sciences*. 2015;1(4):191-8.
17. 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):435-67.
18. Azadi A, Hamidi M, Rouini MR. Methotrexate-loaded chitosan nanogels as 'Trojan Horses' for drug delivery to brain: Preparation and in vitro/in vivo characterization. *International Journal of Biological Macromolecules*. 2013;62:523-30.
19. 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.
20. Sabbaghi E, Moslehi M, Azadi A, Hamidi M. Preparation and in vitro characterization of atorvastatin nanosuspension. *Research in Pharmaceutical Sciences*. 2012;7(5):286.
21. Hamidi M, Azadi A, Mohamadi-Samani S, Rafiei P, Ashrafi H. Valproate-Loaded hydrogel nanoparticles: Preparation and characterization. *Journal of Applied Polymer Science*. 2012;124(6):4686-93.
22. Hamidi M, Azadi A, Ashrafi H, Rafiei P, Mohamadi-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).
23. Hamidi M, Ashrafi H, Azadi A. Surface Functionalized Hydrogel Nanoparticles. *Biomedical Materials and Diagnostic Devices* 2012. p. 191-213.

24. Azadi A, Hamidi M, Khoshayand MR, Amini M, Rouini MR. Preparation and optimization of surface-treated methotrexate-loaded nanogels intended for brain delivery. *Carbohydrate Polymers*. 2012;90(1):462-71.
25. Azadi A, Hamidi M, Khoshayand M, Amini M, Rouini M. Preparation and multi-objective optimization of surface-treated methotrexate-loaded nanogels to brain delivery. *Research in Pharmaceutical Sciences*. 2012;7(5):252.
26. Hamidi M, Rafiei P, Azadi A, Mohammadi-Samani S. Encapsulation of valproate-loaded hydrogel nanoparticles in intact human erythrocytes: A novel nano-cell composite for drug delivery. *Journal of Pharmaceutical Sciences*. 2011;100(5):1702-11.
27. Hamidi M, Rafiei P, Azadi A. Designing PEGylated therapeutic molecules: Advantages in ADMET properties. *Expert Opinion on Drug Discovery*. 2008;3(11):1293-307.
28. Hamidi M, Azadi A, Rafiei P. Hydrogel nanoparticles in drug delivery. *Advanced Drug Delivery Reviews*. 2008;60(15):1638-49.
29. Hamidi M, Azadi A, Rafiei P. Pharmacokinetic consequences of pegylation. *Drug Delivery*. 2006;13(6):399-409.

### III) Abstracts:

1. Chemical constituents of *Salvia mirzayanii* smoke and volatile oil, **Future Trends in Phytochemistry in the global era of agri-food and health**, 2015, Spain
2. The drug molecule releases kinetic evaluation and modeling from lipid-based nanoparticles: A retrospective approach, **2th Middle East/7th Iranian Controlled Release Conference**, 2017, Kerman, Iran
3. The effect of compositional and technical parameters on cyprotrone acetate-loaded lipid nanoparticles size and release profiles, **20th Iranian Pharmacy Students Seminar**, 2017, Tehran, Iran.
4. A potential therapeutic effect of simvastatin in treatment of retinopathy and neuropathy in diabetic patients: A mechanism-based approach, **20th Iranian Pharmacy Students Seminar**, 2017, Tehran, Iran.

5. Hydrogels as novel drug delivery systems: limitations and solutions, **20th Iranian Pharmacy Students Seminar**, 2017, Tehran, Iran.
6. An introductory to roasting (Tashvieh) treatment of natural products, **20th Iranian Pharmacy Students Seminar**, 2017, Tehran, Iran.
7. Gas chromatographic fingerprinting and pharmaceutical evaluation of an Alzheimer-targeted compound formulation from traditional Persian medicine, **20th Iranian Pharmacy Students Seminar**, 2017, Tehran, Iran.
8. Chemical constituents of Teucrium polium smoke and volatile oil, **Future Trends in Phytochemistry in the global era of agri-food and health**, 2015, Spain
9. A novel solid phase microextraction method by hexagonal modified aminopropylsilica nanoparticles for bioanalysis of 5-Fluorouracil, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
10. Mathematical modeling of drug release from carbon nanotubes, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
11. Mathematical modeling of drug release from liposomes, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
12. Mathematical modeling of drug release from polymeric dendrimers, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
13. Methotrexate- loaded hydrogel nanoparticles intended for nose to brain drug delivery, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
14. Pharmacognostical, fingerprinting and pharmaceutical evaluation of an Alzheimer- targeted medicine from the standpoints of traditional Persian medicine, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
15. Preparation and characterization of Indinavir loaded nanostructured lipid carrier, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran

16. SABB: Statistical Analysis of Bioequivalence studies Tool, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
17. The biopharmaceutical drug disposition classification system and biopharmaceutical classification and sub-classification system of the Iran's official drugs, **14th Iranian Pharmaceutical Sciences congress and 1th Symposium of Biopharmacy and Pharmacokinetics**, 2016, Tehran, Iran
18. A Reversed-phase High Performance Liquid Chromatography (HPLC) method for analysis of 5-fluorouracil, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
19. A Reversed-phase High Performance Liquid Chromatography (HPLC) method for bio-analysis of Methotrexate, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
20. Mathematical modeling of drug release from lipid-based nanoparticles, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
21. Mathematical modeling of drug release from non-swellable polymeric nanoparticles, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
22. Mathematical modeling of drug release from polymeric micelles, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
23. Mathematical modeling of drug release from swellable polymeric nanoparticles, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
24. Optimization and characterization of oxymel as an opportunity to new formulation design, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
25. Preparation and standardization of a traditional drink for polydipsia, **19th Iranian Pharmacy Students Seminar**, 2015, Shiraz, Iran.
26. Hydrogel nanoparticles: A particular opportunity in CNS drug delivery, **Nanomedicine in Diagnosis and Treatment of Hard to Treat Disease**, 2015, Tehran, Iran
27. Nasiri, M. Azadi, A., Hamidi, M., Self assembled casein micelles as potential nano vesicles: Extraction from bovin milk and nanoparticle preparation. **The 1<sup>st</sup> Middle East & The 6<sup>th</sup> Iranian Controlled Release Conference** 2014, Tehran, Iran



28. Hadi Esfahani, T., Azadi, A., Joodi, N., Bakhshandeh, H. Preparation and optimization of polysaccharide nanoparticles loaded by TGF- $\beta$  via polyelectrolyte complex formation method, aimed for cartilage tissue engineering. **The 1<sup>st</sup> Middle East & The 6<sup>th</sup> Iranian Controlled Release Conference** 2014, Tehran, Iran
29. Fateh Basharzad, S., Azadi, A., Hamidi, M. The impact of different parameters in drug loading efficiency of SBA-15: Lisinopril as hydrophilic model drug. **The 1<sup>st</sup> Middle East & The 6<sup>th</sup> Iranian Controlled Release Conference** 2014, Tehran, Iran
30. 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 1<sup>st</sup> Middle East & The 6<sup>th</sup> Iranian Controlled Release Conference** 2014, Tehran, Iran
31. Azadi, A., Hamidi, M., Rouini, M.R., Preparation and multi-objective optimization of surface-treated methotrexate-loaded nanogels to brain delivery. **The 13<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC 2012)** Isfahan, Iran.
32. Nasiri, M., Azadi, A., Hamidi, M., Preparation of chitosan nanoparticles loaded by tramadol using ionic gelation method. **The 13<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC 2012)** Isfahan, Iran.
33. Sabbaghi, E., Moslehi, M., Azadi, A., Hamidi, M. Preparation and *in vitro* characterization of atorvastatin nanosuspension. **The 13<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC 2012)** Isfahan, Iran.
34. Nasiri, M., Azadi, A., Hamidi, M., Experimental design and optimization of hydrogel nanoparticles preparation using ionotropic gelation method. 27<sup>th</sup> Polymer Processing Society Conference, 2011, Morocco.
35. Hamidi, M., Mohammadi-Samani, S., Azadi, A., Preparation and *in vitro* Characterization of Hydrogel Nanoparticles for Intravenous Long-Circulating Delivery of Sodium Valproate, **The 5<sup>th</sup> Iranian Control Release Conference**, (ICRC 2011) 4-6 October, mashhad, Iran.

36. Rouini, M.R., Hamidi, M., Khoshayand, M.R., Azadi, A., Fabrication, Optimization and Characterization of Methotrexate-Loaded Nanogels through Response Surface Methodology, **The 5<sup>th</sup> Iranian Control Release Conference**, (ICRC 2011) 4-6 October, mashhad, Iran.
37. Rafiei p., Azadi A., Hamidi M., Investigating the possibility of valperoate encapsulation inside intact human erythrocytes: method and impediments, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
38. Nasiri M, Azadi A., Hamidi M., Mathematical modeling and in-silico evaluations of drug release kinetic from nanoparticles, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
39. Ashrafi H., Azadi A., Hamidi M., Preparation of freeze-dried nanopowder from a drug loaded chitosan-TPP nanoparticles, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
40. Hamidi M., Azadi A., Nasiri M., karimi A., Molavi F., Shayesteh R., Moslehi M., Screening influencing factors on Hydrogel nanoparticles preparation using ionotropic gelation method, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
41. Sabaghi E., Azadi A., Hamidi M., Screening influencing factors on preparation of nanosuspension of Atorvastatin using Nanopecipitation method, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
42. Azadi A., Ashrafi H., Rafiei P., Hamidi M., The importance of experimental design in optimizing Hydrogel nanoparticle preparation, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress** (IPSC 2010) 2-5 August 2010, Zanjan, Iran
43. Hamidi, M., Mohammadi-Samani, S., Ashrafi H., Azadi, A. Preparation and Characterization of Hydrogel Nanoparticles for Long-Circulating Delivery of Desferrioxamine, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.

44. Hamidi, M., Mohamadi-Samani, S., Rafiei, P., Ashrafi, H., Azadi, A. Sodium valproate-loaded hydrogel nanoparticles: design and characterization, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.
45. Hamidi, M., Azadi, A., Mohamadi-Samani, S., Rafiei, P., Ashrafi, H. Evaluation and optimization of sodium valproate loading in chitosan-TPP hydrogel nanoparticles, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.
46. Azadi, A., Hamidi, M., Rouini, MR. Nanoparticulate systems: Trojan horses for Blood-Brain Barrier, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.
47. Rafiei, P., Mohammadi-Samani, S., Azadi, A., Hamidi, M. Valprate Sodium loading in human red blood cells: studying entrapment efficiencies of various loading methods, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.
48. Rafiei, P., Azadi, A., Mohammadi-Samani, S., Hamidi, M. A Novel Drug Delivery System for the Delivery of Sodium valproate: The Concomitant application of Nanotechnology™ and Carrier Erythrocyte™ Concept, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.
49. Hamidi M., Mohammadi-Samani S., Azadi A., Rafiei P., A Novel Drug Delivery System, Based on Carrier Erythrocytes for the Delivery of the Antiepileptic Drug, Sodium Valproate, **2<sup>nd</sup> International Congress on Nanoscience and Nanotechnology 2008 (ICNN2008)**, October 2008, Tabriz, Iran.
50. Hamidi M., Mohammadi-Samani S., Ashrafi H., Azadi A., Preparation of Chitosan Nanoparticles Loaded By Desferrioxamine, **2<sup>nd</sup> International Congress on Nanoscience and Nanotechnology 2008 (ICNN2008)**, October 2008, Tabriz, Iran.
51. Hamidi M., Mohamadi-Samani S., Rafiei P., Ashrafi H., Azadi A., Preparation and *in vitro* Characterization of Hydrogel-based Nanoparticles Loaded by sodium valproate, **2<sup>nd</sup> International Congress on Nanoscience and Nanotechnology 2008 (ICNN2008)**, October 2008, Tabriz, Iran.

52. Azadi A., Hamidi M., Mohammadi-samani S., Ashrafi H., rafiei P., preparation and *in vitro* evaluation of sodium valproate-loaded hydrogel nanoparticles, **11<sup>th</sup> Iranian pharmaceutical sciences congress** (IPSC 2008), August 2008, kerman, Iran.
53. Ashrafi H., Hamidi M., Mohammad-Samani S., Azadi A., Preparation of chitosan nanoparticles loaded by desferrioxamine, **11<sup>th</sup> Iranian pharmaceutical sciences congress** (IPSC 2008), August 2008, kerman, Iran.
54. Rafiei P., Azadi A., Hamidi M., Mohammad-Samani S., Preparation and in vitro characterization of carrier erythrocytes loaded by sodium valproate bearing hydrogel nanoparticles using hypoosmotic dialysis method, **11<sup>th</sup> Iranian pharmaceutical sciences congress** (IPSC 2008), August 2008, kerman, Iran.
55. Hamidi M, Mohammadi-Samani S, Ashrafi H, Ahmadpour Y, AzadiA., Omidi M, Dinari N, Preparation of chitosan nanoparticles noaded by desferrioxamine, **3<sup>rd</sup> Iranian Conference of Novel Drug Delivery Systems**, June 2007, Tehran, Iran.
56. Hamidi M, Mohammadi-Samani S, Azadi A., Ashrafi H, Dinari N, Omidi M, Preparation of sodium valproate-loaded chitosan nanoparticles based on ionic gelation process, **3<sup>rd</sup> Iranian Conference of Novel Drug Delivery Systems**, June 2007, Tehran, Iran.
57. Hamidi M, Mohammadi-Samani S, Ashrafi H, Ahmadpour Y, AzadiA., Omidi M, Dinari N, Preparation of chitosan nanoparticles noaded by desferrioxamine, **The 8<sup>th</sup> Annual research congress of Iranian Medical Science Students, The first international student congress on medical research** (ARCMS 2007), shiraz, Iran
58. Rafiei P, Azadi A., Rasoulamini S, Firouzabadi H, Jafari AA, Hamidi M, Preparation and Characterization of PegylatedPhenythoin, **10<sup>th</sup> Iranian Seminar of Pharmaceutical Sciences**, August 2006, Tehran, Iran.

## IV) Workshops

1. Patent, **Iranian Society of Nanomedicine, Tehran University of Medical Sciences**, January, 2014, Tehran, Iran
2. How to publish a scientific journal article, **Espringer and Eedanz (english editing for scientists) at Tehran University of Medical Sciences**, February, 2013, Tehran, Iran,
3. Thermal Analysis, **School of Chemistry, College of Science, University of Tehran**, June 20-21, 2012, Tehran, Iran
4. LC-MS, **Shahid Beheshti central research laboratories (Phytochemistry research center)**, February 2012, Tehran, Iran.
5. Scientific writing, **The 5<sup>th</sup> Iranian Control Release Conference**, (ICRC 2011) 4-6 October, Mashhad, Iran.
6. Experimental Design (screening), **Pharmaceutical Research center**, February 2009, Tehran, Iran.
7. Experimental Design (optimization), **Pharmaceutical Research center**, February 2009, Tehran, Iran.

## Awards:

1. The **ESI-based top 1%** most cited scientists. Since January 2015 until now
2. The best oral presenter and the best research in nanotechnology, **14<sup>th</sup> Nanotechnology Iranian Graduates Conference, Iranian Society of Nanomedicine**, 2014, Tehran, Iran
3. The young scientist of pharmaceutical sciences, **18<sup>th</sup> RAZI Festival**, 2013, Tehran, Iran
4. The best research award of **Iranian Academy of Medical Sciences**, 2011, Tehran, Iran
5. The best poster presenter, 2009, Biokimia Company award, **The 4<sup>th</sup> Iranian Controlled Release Conference**, Zanzan, Iran

6. The Shiraz University of Medical Sciences **year-student award**, 2008, Shiraz, Iran
7. The **top student in Pharmacy**, 2008, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran
8. The Best Research in Pharmaceutics, **11<sup>th</sup> Iranian Pharmaceutical Sciences Congress**, August 2008, Kerman, Iran.
9. The Best student award of **Iranian Pharmaceutical association**, Tehran, Iran (2007).
10. The Best Poster Presenter, the **10<sup>th</sup> Iranian Pharmacy Students Congress**. October 2003, Mashad, Iran

### **Lectures and Seminars:**

1. Hydrogel nanoparticles: A particular opportunity in CNS drug delivery, **Nanomedicine in Diagnosis and Treatment of Hard to Treat Disease**, 2015, Tehran, Iran
2. Neuropharmacokinetic Evaluation of Methotrexate-loaded Hydrogel Nanoparticles, **14<sup>th</sup> Nanotechnology Iranian Graduates Conference**, 2014, Tehran, Iran
3. The Importance of experimental design in Optimizing Hydrogel Nanoparticles Preparation, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC 2010)** 2-5 August 2010, Zanjan, Iran
4. Evaluation and optimization of sodium valproate loading in chitosan-TPP hydrogel nanoparticles, **The 4<sup>th</sup> Iranian Control Release Conference**, October 2009, Zanjan, Iran.

### **Workshops and Short Courses (as presenter):**

1. Preparation and optimization of hydrogel nanoparticles, **the 16<sup>th</sup> Iranian Pharmacy Students Congress**. October 2011, Tehran, Iran
2. Workshop in Nanogels, **The 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC 2010)** 2-5 August 2010, Zanjan, Iran

### **Advisor of Pharm. D. Thesis**

1. Leila pourtalebi Jahromi. (2016), Hydrogel nanoparticles for direct nose to brain delivery of methotrexate, Shiraz University of Medical Sciences
2. Hadi Esfahani T. (2014), Preparation and optimization of polysaccharide nanoparticles loaded by TGF- $\beta$  via polyelectrolyte complex formation method, aimed for cartilage tissue engineering. Zanzan University of Medical Sciences
3. Molavi F., (2013), Preparation, optimization and *in vitro* characterization of orlistate nanosuspension, Zanzan University of Medical Sciences

### **Advisor of M. Sc. Thesis:**

1. Nasiri M., (2012), Kinetic analysis of drug release from nanogels, Iran Polymer Research Center

### **Research Projects:**

1. Azadi A., Mohammadi-Samani S., Pourtalebi-Jahromi L, Hydrogel nanoparticles for direct nose to brain delivery of methotrexate., Shiraz, Iran (2015-2016)
2. Azadi, A., Rouini M.R., Hamidi M., In vivo evaluation of the methotrexate-loaded hydrogel nanoparticles biodistribution. Shiraz, Iran (2014-2016)
3. Azadi. A., Ashrafi, H., Evaluation of methotrexate-loaded nanogels during transmission electron microscopy. Shiraz, Iran (2014-2016)
4. Rouini M.R., Hamidi M., and Azadi A., Neuropharmacokinetic evaluation of methotrexate-loaded hydrogel nanoparticles. Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran (2010-2014).

### **Executive experience**

1. Head of scientific committee, **the 11<sup>th</sup> Iranian Pharmacy Students Congress**. October 2005, Shiraz, Iran

### **Memberships:**

1. Iranian Medical Council

2. Iranian Pharmaceutical Association
3. Iranian nanotechnology initiative council
4. Iran's National Elites Foundation

## **Skills**

1. High performance liquid chromatography (HPLC)
2. Polymeric nanoparticles preparation and characterization (in vitro and in vivo)
3. Pharmacokinetic studies on animal models
4. Laboratory animals handling, drug administration and sampling
5. Neuropharmacokinetic studies
6. Experimental Design (Design expert software)
7. Statistics
8. Usual laboratory techniques

## **References:**

1. **Dr Mohammad-Reza Rouini** , Professor of Pharmaceutics, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.
2. **Dr Hosnie Tajerzadeh**, Professor of Pharmaceutics, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.
3. **Dr Mehrdad Hamidi**, Professor of Pharmaceutics and Dean, Faculty of Pharmacy, Zanzan University of Medical Sciences, Zanzan, Iran.



4. **Dr Soliman Mohammadi-Samani**, Professor of Pharmaceutics, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran
5. **Dr Hossein Niknahad**, Professor of Toxicology and Dean, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.
6. **Dr Younes Ghasemi**, Professor of Pharmacognosy, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran
7. **Dr Abdolali Mohagheghzadeh**, Professor of Pharmacognosy, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran
8. **Dr Zahra Rezaei**, Professor of Medicinal Chemistry, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran