

Curriculum Vita

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TAMADDON Ali-Mohammad, Pharm.D, Ph.D

Associate Professor

*School of Pharmacy and Research Center for Nanotechnology in Drug Delivery,
Shiraz University of Medical Sciences*

✉ *PO Box: 71345-1583, Shiraz, Iran*

☎ *+98-71-3242-4127 (Ext. 257)*

📠 *+98-71-3242-4126*

📧 *amtamaddon@sums.ac.ir, amtamaddon@gmail.com*

🌐 *<http://pharmacy.sums.ac.ir/en/departments/pharmaceutics/ali-mohammad-tamaddon.html>*

Personal Records:

Place and Date of Birth: Shiraz June 26, 1976

Marital Status: Married (1 child)

Foreign Languages: English, French

Current Academic Appointments:

1. June 2013 - Present: *Director, Research Center for Nanotechnology in Drug Delivery, Shiraz University of Medical Sciences*
2. February 2017 - Present: *Deputy Head of Education, School of Pharmacy, Shiraz University of Medical Sciences*
3. October 2014 – February 2017: *Deputy Head of Graduate Education, School of Pharmacy, Shiraz University of Medical Sciences*
4. April 2011 - Present: *Head of Pharmaceutical Nanotechnology Department, Shiraz University of Medical Sciences (1st Appointment)*
5. October 2010 - Present: *Director, Nanotechnology and Cellular Characterization Lab, Advanced Biomedical Sciences and Technologies, Shiraz University of Medical Sciences*
6. Dec 2015 – Present: *CEO, Nanofarsan Pharm Tech Dev knowledge-based start-up company, Pharmaceutical Technology Incubator, Shiraz University of Medical Sciences*
7. December 2008 - Present: *Academic member, Department of Pharmaceutical Biotechnology, Faculty of pharmacy, Shiraz University of Medical Sciences (2nd Appointment)*

8. December 2006 - Present: *Academic member, Department of Pharmaceutics, Faculty of pharmacy, Shiraz University of Medical Sciences (2nd Appointment)*

Scientific Interests:

1. Colloidal delivery systems including liposomes, polymeric micelles, vesicles and nanoparticles for delivery of active pharmaceutical agents (small molecules and biomacromolecules)
2. Functional nanostructured materials including mesoporous materials and hydrogels for drug delivery applications
3. Biocompatible polymeric materials (synthesis by ROP and RAFT polymerization, characterization and functionalization) for drug delivery applications
3. Solid-phase peptide synthesis, chromatographic purification and characterization
4. Bioconjugation chemistry and protein PEGylation
5. Cell culture and whole body pharmacokinetics characterizations
6. Pharmaco-metrics, design and analysis of experiments

Technical Expertise:

1. "Atomic force microscopy (AFM)", Supervisor, Central Lab of Shiraz University of Medical Sciences
2. "Dynamic light scattering (DLS-zeta potential)", Supervisor, Nanotechnology and Cellular Characterization Lab
3. "Thermogravimetric analysis (TGA)", Supervisor, Central Lab of Shiraz University of Medical Sciences
4. "Small animal bioluminescent imaging", Supervisor, Central Lab of Shiraz University of Medical Sciences
5. "High Performance Liquid Chromatography (HPLC)" and size exclusion chromatography, Supervisor, Nanotechnology and Cellular Characterization Lab
6. "Cell-Culture and Cell-Based Bioassays", Supervisor, Nanotechnology and Cellular Characterization Lab

Academic Memberships:

1. 2016: Scientific Committee, *2nd Conference on Peptide and Protein Science*, Isfahan, Iran
2. Jan 2015 - Present: *Nanomedicine Sub-committee, National Academy of Medical Sciences*, Iran
3. June 2014 - Present: *Board of Trustees of the University Clean Rooms*, Shiraz University of Medical Sciences
4. March 2014: Scientific Committee, *1st Middle East and 6th Iranian Controlled Release Conference*, Tehran
5. February 2014: Scientific Committee, *Iran Nanosafety Congress*, Tehran
6. January 2014 - Present: Editor of Nanotechnology Section: *Trends in Pharmaceutical Sciences*, Faculty of Pharmacy, Shiraz University of Medical Sciences
7. November 2013 - Present: *National Association of Board of Pharmaceutical Nanotechnology*, Ministry of health and Medical Education

8. 2013 - Present: *Council of Pharmaceutical Technology Incubator*, Shiraz University of Medical Sciences
9. 2013 - Present: *Strategic Council of Nanotechnology Network*, Deputy of Research and Technology, Ministry of Health and Medical Education
10. 2011 - Present: *Supreme Council of Advanced Biomedical Sciences and Technologies*, Shiraz University of Medical Sciences
11. 2010 - Present: Scientific Committee, *3rd International Conference on Nanoscience and Nanotechnology*, Shiraz
12. 2008 - Present: *Iranian Controlled Release Society*
13. 2006 - Present: *Iranian Association of Pharmaceutical Scientists*

Educational Records:

1. Research Fellowship (2005): PROTHETS project, Partner #8, UMR CNRS 8121, Vectorologie et Transfert de Genes, Institut Gustave Roussy, Villejuif, France under supervision of Prof. Claude Malvy and Prof. Patrick Couvreur.

Title of Project: *Efficiency and specificity of antisense oligodeoxynucleotides and small interfering RNA (SiRNA) delivered by cationic nanovectors in Ewing sarcoma.*

2. Ph.D (2000-2006): Shaheed-Beheshti University of Medical Sciences, School of Pharmacy, Tehran, Iran under supervision Prof. Hamidreza Moghimi and Prof. Farshad Hosseini Shirazi.

Title of Dissertation: *Effect of bilayer destabilizing agents on the cytoplasmic release of antisense oligonucleotides from PEG-stabilized cationic nanoliposomes and their cytotoxicity on tumor cells.*

3. Pharm.D (1994-2000): Esfahan University of Medical Sciences, School of Pharmacy, Isfahan, Iran under supervision Prof. Amir Hooshang Zargarzade

Honors & Awards:

1. 2014: *Distinguished Faculty Member (top 5 researchers)*, Deputy of Research and Technology, Shiraz University of Medical Sciences, Shiraz

2. 2014: *Invited Guest*, Clinical Nanomedicine Conference, European Society for Nanomedicine (ESNAM), Basel, Switzerland

3. 2011: *Distinguished Faculty Member (of the School of Pharmacy)*, Deputy of Education, Shiraz University of Medical Sciences, Shiraz

4. 2010: *Participation Grant, Nanomedicine Conference*, European Science Foundation (ESF), Sant-Feliu-de-Guixols, Spain

5. 2008: *National Young Scientist Award*, Ministry of Health and Medical Education, Tehran

6. 2008: *Awarded Grant for Accomplishment of Ph.D. on Pharmaceutical Nanotechnology*, National Nanotechnology Initiative, Tehran

7. 2007: Ranked 1st Top for Presented Article in Nanotechnology Section, 8th Annual Student Congress on Medical Sciences and 1st International Student Congress on Medical Research, Shiraz
8. 2002: Ranked 1st Top in Comprehensive Board Exam, Shaheed-Beheshti Medical University, Tehran

Publications:

1. Abbasi, S., G. Yousefi* and A.-M. Tamaddon (2018). "Polyacrylamide–b-copolyptide hybrid copolymer as pH-responsive carrier for delivery of paclitaxel: Effects of copolymer composition on nanomicelles properties, loading efficiency and hemocompatibility." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 537: 217-226. (IF= 2.714)
2. Abolmaali, S., A. Tamaddon, M.* Salmanpour, S. Mohammadi and R. Dinarvand (2017). "Block ionomer micellar nanoparticles from double hydrophilic copolymers, classifications and promises for delivery of cancer chemotherapeutics." *European Journal of Pharmaceutical Sciences*. (IF=3.756)
3. Javanmardi, S., M. Reza Aghamaali, S. Sadat Abolmaali, S. Mohammadi and A. Mohammad Tamaddon* (2016). "miR-21, An Oncogenic Target miRNA for Cancer Therapy: Molecular Mechanisms and Recent Advancements in Chemo and Radio-resistance." *Current gene therapy* 16(6): 375-389. (IF=2.78)
4. Mahmoodi, M., A. Behzad-Behbahani*, S. Sharifzadeh, S. S. Abolmaali and A. Tamaddon* (2017). "Co-condensation synthesis of well-defined mesoporous silica nanoparticles: effect of surface chemical modification on plasmid DNA condensation and transfection." *IET Nanobiotechnology*. (IF=1.463)
5. Moghadam, S. S., A. Oryan, B. I. Kurganov, A.-M. Tamaddon, M. M. Alavianehr, A. A. Moosavi-Movahedi and R. Yousefi* (2017). "The structural damages of lens crystallins induced by peroxy nitrite and methylglyoxal, two causative players in diabetic complications and preventive role of lens antioxidant components." *International journal of biological macromolecules* 103: 74-88. (IF=3.069)
6. Salmanpour, M., A. Tamaddon*, G. Yousefi and S. Mohammadi-Samani (2017). "" Grafting-from" synthesis and characterization of poly (2-ethyl-2-oxazoline)-b-poly (benzyl L-glutamate) micellar nanoparticles for potential biomedical applications." *BioImpacts* 7(3). (Scopus, ESCI)
7. Fatemeh Safari*, Solmaz Rahmani Barouji, Ali Mohammad Tamaddon (2017). "Strategies for Improving siRNA-Induced Gene Silencing Efficiency" *Advanced Pharmaceutical Bulletin*. (Scopus, ESCI)
8. Abolmaali, S. S., Tamaddon, A. M.*, Mohammadi, S., Amoozgar, Z., & Dinarvand, R. (2016). Chemically crosslinked nanogels of PEGylated poly ethyleneimine (L-histidine substituted) synthesized via metal ion coordinated self-assembly for delivery of methotrexate: Cytocompatibility, cellular delivery and antitumor activity in resistant cells. *Materials Science and Engineering: C*, 2016 (IF = 3.08).
9. Golkar N, Samani SM, Tamaddon AM.* (2016). Modulated cellular delivery of anti-VEGF siRNA (bevasiranib) by incorporating supramolecular assemblies of hydrophobically modified polyamidoamine dendrimer in stealth liposomes. *International Journal of Pharmaceutics*, DOI: 0.1016/j.ijpharm.2016.06.026 (IF= 3.65).

10. Mosaffa-Jahromi, M., Lankarani, K. B., Pasalar, M. *, Afsharypuor, S., & Tamaddon, A. M. * (2016). Efficacy and safety of enteric coated capsules of anise oil to treat irritable bowel syndrome. *Journal of Ethnopharmacology*, DOI: 10.1016/j.jep.2016.10.083 (IF=3.055).
11. Javadi, S, Yousefi, R*, Hosseinkhani, S, Tamaddon, AM, Uversky, V. (2016). Protective effects of carnosine on dehydroascorbate-induced structural alteration and opacity of lens crystallins: Important implications of carnosine pleiotropic functions to combat cataractogenesis. *Journal of Biomolecular Structure & Dynamics*, DOI: 10.1080/07391102.2016.1194230 (IF= 2.92).
12. Farvadi F, Tamaddon A, Sobhani Z, & Abolmaali SS*. (2016). Polyionic complex of single-walled carbon nanotubes and PEG-grafted-hyperbranched polyethyleneimine (PEG-PEI-SWNT) for an improved doxorubicin loading and delivery: development and in vitro characterization. *Artificial cells, Nanomedicine, and Biotechnology*, DOI: 10.1080/21691401.2016.1181642 (IF= 2.02).
13. Yousefi, R.,* Ferdowsi, L., Tavaf, Z., Sadeghian, T., Tamaddon, A. M., Moghtaderi, M., & Pourpak, Z. (2016). Evaluation of structure, chaperone activity and allergenicity of reduced glycated adduct of bovine β -casein. *Protein and peptide letters* (IF= 1.104).
14. Golkar N, Samani SM, & Tamaddon AM.* (2016). Data on cell growth inhibition induced by anti-VEGF siRNA delivered by Stealth liposomes incorporating G2 PAMAM-cholesterol versus Metafectene® as a function of exposure time and siRNA concentration. *Data in Brief*, 8, 1018-1023. (Scopus)
15. Kianpour, S., Ebrahiminezhad, A*, Mohkam, M., Tamaddon, A. M., Dehshahri, A., Heidari, R., & Ghasemi, Y. (2016). Physicochemical and biological characteristics of the nanostructured polysaccharide-iron hydrogel produced by microorganism *Klebsiella oxytoca*. *Journal of Basic Microbiology*. DOI: 10.1002/jobm.201600417 (IF= 1.585).
16. Ravanfar, R., Tamaddon, A. M*., Niakousari, M., & Moein, M. R., Preservation of anthocyanins in solid lipid nanoparticles: Optimization of a microemulsion dilution method using the Plackett-Burman and Box-Behnken designs, *Food Chemistry*, 2015 (IF= 3.90).
17. Mosaffa-Jahromi M, Tamaddon AM*, Afsharypuor S, Salehi A, Seradj SH, Pasalar M, ... & Lankarani KB. (2016). Effectiveness of anise oil for treatment of mild to moderate depression in patients with irritable bowel syndrome a randomized active and placebo-controlled clinical trial. *Journal of evidence-based complementary & alternative medicine* (IF = 1.88).
18. Golkar, N., Samani, S. M., & Tamaddon, A. M.* (2016). Cholesterol-conjugated supramolecular assemblies of low generations polyamidoamine dendrimers for enhanced EGFP plasmid DNA transfection. *Journal of Nanoparticle Research*, 18(5), 1-20 (IF= 2.101).
19. Sarkari, B. *, Sattari, H., Moein, M. R., Tamaddon, A. M., Rad, R. S., & Asgari, Q. Effect of topical gel prepared with hydroalcoholic extract of *Echinacea purpurea* on treatment of *Leishmania major*-induced cutaneous leishmaniasis in BALB/C mice. *Journal of Pharmaceutical Negative Results*, 2016: 7(1), 12 (Scopus).
20. Abolmaali S, Tamaddon A.M.*, Kamali-Sarvestani E, Ashraf M, Dinarvand R. (2015). Stealth nanogels of histinylated poly ethyleneimine for sustained delivery of methotrexate in collagen-induced arthritis model. *Pharmaceutical Research*, 32(10):3309-23 (IF= 4.29).

21. Khoshaman, K., Yousefi, R.*, Tamaddon, A. M., Saso, L., & Moosavi-Movahedi, A. A. (2015). The impact of Hydrogen peroxide on structure, stability and functional properties of Human R12C mutant α A-crystallin: The imperative insights into pathomechanism of the associated congenital cataract incidence. *Free Radical Biology and Medicine*, 89, 819-830. (IF= 5.85).
22. Safari F, Tamaddon AM*, Zarghami N, Abolmaali S, Akbarzadeh A (2015). Polyelectrolyte complexes of hTERT siRNA and polyethyleneimine : Effect of degree of PEG grafting on biological and cellular activity. *Artificial cells, nanomedicine, and biotechnology* (IF=2.02).
23. Abolmaali SS, Tamaddon AM, Samani SM*. Application of rapid and simple liquid chromatography method for determination of bioequivalence of generic lamotrigine tablets in healthy Iranian volunteers. *Trends in Pharmaceutical Sciences*, 2015.
24. Najafi H., Abolmaali S., Owrangi B., Ghasemi Y., Tamaddon A.M.*, Serum Resistant and Enhanced Transfection of Plasmid DNA by PEG-Stabilized Polyplex Nanoparticles of L-histidine Substituted Poly ethyleneimine, *Macromolecular Research*, 2015 : 23 (7), 618-627 (IF = 1.60).
25. Golkar N, Tamaddon AM*, Mohammadi Samani S., Effect of Lipid Composition on Incorporation of Trastuzumab-PEG-Lipid into Nanoliposomes by Post-Insertion Method: Physicochemical and Cellular Characterization, *Journal of Liposome Research*, 2015 (IF= 1.79).
26. Ravanfar R, Tamaddon A.M., Niakosari*, Optimization of Ultrasonic Extraction of Anthocyanines from Red Cabbage using Taguchi Design, *Journal of Food Sciences and Technology*, 2015, 52 (12), 8140-8147 (IF= 2.20).
27. Abolmaali S, Tamaddon AM*, Najafi H, Dinarvand R, Effect of L-histidine Substitution on Sol-Gel of Transition Metal Coordinated Poly Ethyleneimine: Synthesis and Biochemical Characterization, *Journal of Inorganic and Organometallic Polymers and Materials*, 2014, 24:977–987 (IF= 1.16).
28. Tavakoli S, Tamaddon AM*, Golkar N, Mohammadi-Samani S, Microencapsulation of deoxythymidine20-DOTAP complexes in stealth liposomes optimized by Taguchi design, *Journal of Liposome Research*, 2014, June 24, 1-11 (IF= 1.79).
29. Taghipour B, Haririan, Tamaddon A, Mohammadi-Samani S*, The effects of technical and compositional variables on the size and release profile of bovine serum albumin from PLGA based particulate systems, *Research in Pharmaceutical Sciences*, 2014, 9, 407-420 (Pubmed, ESCI).
30. Abolmaali S, Tamaddon A*, Yousefi GH, Javidnia K, Dinarvand R. Sequential Optimization of Methotrexate Encapsulation in Micellar Nano-Networks of Poly Ethyleneimine Ionomer Containing Redox-Sensitive Cross-Links, *International Journal of Nanomedicine* 2014, 9 : 2833-2848 (IF= 4.74)
31. Moazzami F*, Ghahramani Y, Tamaddon AM, Dehghani Nazhavani A, Adl A. A histological comparison of a new pulp capping material and mineral trioxide aggregate in rat molars. *Iran Endod J* 2014; 9(1):50-55 (Pubmed).
32. Farvadi FS, Tamaddon AM*, Abolmaali SS, Sobhani Z, Development of micellar stabilized single-walled carbon nanotubes for a pH-sensitive delivery of doxorubicin. *Research in Pharmaceutical Sciences* 2014 ; 9(1) : 1-10 (Pubmed, ESCI).

33. Hashemi F, Tamaddon AM*, Yousefi GH, Farvadi FS, Development and validation of a rapid and simple HPLC-UV method for the analysis of sorafenib in the presence of polyamidoamine (PAMAM) dendrimers. *Journal of Liquid Chromatography & Related Technologies* 2014; 37 (10) : 1427-1437 (IF= 0.65).
34. Samiei A, Tamaddon AM, Samani SM, Manolios N, Kamali Sarvestani E*, Engraftment of plasma membrane vesicles into liposomes: A new method for designing of liposome-based vaccines, *Iranian Journal of Basic Medical Sciences* 2014, 17 (10): 772 (IF= 1.23).
35. Abolmaali S, Tamaddon A*, Dinarvand R. Nano-hydrogels of methoxy polyethylene glycol-grafted branched polyethyleneimine via biodegradable cross-linking of Zn²⁺-ionomer micelle template, *Journal of Nanoparticle Research* 2013 ; 15 : 2134 (IF= 2.18).
36. Saffari M, Tamaddon AM, Shirazi FH, Oghabian MA, Moghimi HR*. Improving cellular uptake and in-vivo tumor suppression efficacy of liposomal oligonucleotidivisiones by urea as a chemical penetration enhancer. *Journal of Gene Medicine* 2013 ; 15(1) : 12-19 (IF= 2.47).
37. Abolmaali SS, Tamaddon AM, Dinarvand R*, A review of therapeutic challenges and achievements of methotrexate delivery systems for treatment of cancer and rheumatoid arthritis. *Cancer Chemotherapy and Pharmacology* 2013 ; 71(5):1115-30 (IF= 2.77).
38. Cheraghipour E, Tamaddon AM, Javadpour S, PEG conjugated citrate capped superparamagnetic nanoparticles for biomedical applications. *Journal of Magnetic Materials and Magnetism* 2013 ; 328, 91-95 (IF= 1.98).
39. Eskandarian T*, Motamedifar M, Hekmatfar S, Tamaddon AM. Comparison of the effect of three types of iron drops on surface roughness of deciduous teeth in a simulated cariogenic environment. *Journal Dental School* 2013; 30(5):275-282.
40. Tamaddon A*, Niknahad H, Nikravesh M, Effect of helper lipids on stability and transfection activity of lyophilized lipoplex formulations of antisense and DOTAP nanoliposomes. *Iranian Journal of Pharmaceutical Sciences* 2011 ; 7(2): 79-87 (Scopus).
41. Abolmaali SS, Tamaddon AM*, Farvadia FS, Daneshamuz S, Moghimi HR, Pharmaceutical nanoemulsions and their potential topical and transdermal applications, *Iranian Journal of Pharmaceutical Sciences*, 2011; 7(3): 139-150 (Scopus).
42. Villemeur M, Tamaddon A, Bertrand JR, Malvy C*. Comparative activity and specificity of antisense oligodeoxynucleotides and small interfering RNA in an in vitro Ewing Sarcoma model. *The Open Nanomedicine Journal* 2009; 36-45 (Scopus).
43. Peymani P, Tamaddon AM, Jaberipour M, Shahbazi MA, Hamidi M. Formulation of chitosan nanoparticle for P53 gene delivery in tumor cells. *Iranian Journal of Medical Hypotheses and Ideas* 2008; 15(2).
44. Tamaddon AM, Shirazi FH, Moghimi HR*. Modeling cytoplasmic release of encapsulated oligodeoxynucleotides from cationic liposomes. *International Journal of Pharmaceutics* 2007; 336(1): 174-182 (IF = 4.01).

45. Tamaddon AM, Shirazi FH, Moghimi HR*. Preparation of oligodeoxynucleotide encapsulated cationic liposomes and release study with models of cellular membranes. *DARU Journal of Pharmaceutical Sciences* 2007; 15(2): 61-70 (IF= 1.64).
46. Toub N, Bertrand JR, Tamaddon AM, Elhamesh H, Hillaireau H, Maksimenko A, Maccario J, Malvy C, Fattal E, Couvreur P*. Efficacy of siRNA nanocapsules targeted against the EWS-Fli1 oncogene in Ewing sarcoma. *Pharmaceutical Research* 2006; 23(5):892-900 (IF= 4.29).
47. Zargarzadeh AH*, Tamaddon AM. DUE of warfarin in Isfahan University affiliated hospitals, *Journal of Isfahan Medical School* 2001; 18(60): 26-30.

Patents:

1. Tamaddon AM, Motamedi M, Yousefi Gh, Synthesis of mPEG-PLA Block Copolymers and Parenteral Formulations of Paclitaxel Thereof, Iran Patent Office, 2015, #83713, Sep 2014.
2. Hasanshahi F, Yousefi Gh, Tamaddon AM, Synthesis of G-CSF Nano-Conjugates and Parenteral Formulation Thereof, Iran Patent Office, #024114, Sep 2014.
3. Ravanfar R, Tamaddon AM, Niakowsari M, Aminlari M, Moein MR, Nano-Encapsulation of Bioactive Antioxidants in Lipid nanoparticles for Stabilization and Bioavailability Enhancement, Iran Patent Office, #008544, Feb 2013.

Podiums:

1. Tamaddon AM, Abolmaali SS, Dinarvand R, Ionomer complex micelles for delivery of chemotherapeutic agents, Nanomedicines in Diagnosis and Therapy of Hard-to-Treat Diseases Conference (2015), Tehran, Iran.
2. Tamaddon AM, Abolmaali SS, Core-crosslinked bPEI ionomer nanogels for delivery of methotrexate in experimental polyarthritis model, 1st Middle East and 6th Iranian Controlled Release Conference (2014), Tehran, Iran.
3. Tamaddon AM, Abolmaali SS, Shirazi FH, Moghimi HR. Preparation and cellular characterization of PEG stabilized Genospheres with potential application as targeted cancer therapeutics, 3rd International Conference on Nanoscience and Nanotechnology (2010), Shiraz, Iran.
4. Tamaddon AM, Golkar N, Vali AM, Samani SM. Preparation and Cellular Characterization of Stealth Immunoliposomes Targeted against HER-2 in Breast Cancer, 4th Iranian Controlled Release Conference (2009), Zanjan, Iran.
5. Tamaddon AM, Malvy C. What governs superiority of hairpin antisense over siRNA in human Ewing cells, 11th Iranian Seminar of Pharmaceutical Sciences (2008), Kerman, Iran.
6. Tamaddon AM, Toub N, Malvy C, Couvreur P. Enhancement of siRNA activity by loading in PIBCA nanocapsules, 11th Iranian Seminar of Pharmaceutical Sciences (2008), Kerman, Iran.

7. Tamaddon AM, Shirazi FH, Moghimi HR. Enhancement of intracellular delivery and antisense efficiency of cationic liposome entrapped oligodeoxynucleotides by lipid bilayer-destabilizing agents. 3rd Iranian Conference of Novel Drug Delivery Systems (2007), Tehran, Iran.
8. Tamaddon AM, Shirazi FH, Golkar N, Moghimi HR. Mathematical modeling of cellular pharmacokinetic of antisense oligodeoxynucleotide loaded cationic liposomes. 3rd Iranian Conference of Novel Drug Delivery Systems (2007), Tehran, Iran.
9. Tamaddon AM, Villemeur M, Bertrand JR, Malvy C. Efficiency and specificity of antisense oligodeoxynucleotides and siRNA directed against EWS/Fli-1 junction oncogene in Ewing sarcoma. 9th Iranian Congress of Biochemistry and 2nd International Congress of Biochemistry and Molecular Biology (2007), Shiraz, Iran.
10. Tamaddon AM, Shirazi FH, Moghimi HR. Modeling intra-cellular release of encapsulated antisense oligonucleotides from lipidic nanoparticles. 8th Annual Student Congress on Medical Sciences and 1st International Student Congress on Medical Research (2007), Shiraz, Iran.
11. Tamaddon AM, Shirazi FH, Moghimi HR. Preparation and characterization of antisense oligonucleotide encapsulated in pH-sensitive stealth liposomes. 10th Iranian Seminar of Pharmaceutical Sciences (2006), Tehran, Iran.
12. Tamaddon AM, Shirazi FH, Moghimi HR. Growth inhibition of A549 cells transfected by phosphorothioate antisense oligonucleotide complexed with Metafectene®. 8th Iranian Seminar of Toxicology (2004), Tehran, Iran.
13. Tamaddon AM, Moghimi HR, Shirazi FH, Kobarfard F. Ion-pairing reversed-phase HPLC method validation for separation and quantification of an antisense oligonucleotide. 9th Iranian Seminar of Pharmaceutical Sciences (2004), Tabriz, Iran.
14. Tamaddon AM, Shirazi FH, Moghimi HR. Optimizing transfection of A549 by antisense oligonucleotide complexes with cationic liposomes. 9th Iranian Seminar of Pharmaceutical Sciences (2004), Tabriz, Iran.
15. Tamaddon AM, Mirfazli S, Ghadiri M, Aboofazeli R. Optimization of percutaneous absorption of salicylate from phospholipid microemulsions. 8th Iranian Seminar of Pharmaceutical Sciences (2002), Shiraz, Iran.

Conference Abstracts and Proceedings:

1. Behzadnia M, Fabrication of mesoporous starch for oral delivery of a BCS class II chemotherapeutic agent (sorafenib), 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#11079)
2. Ghahramani L, Synthesis of Stealth nano-gels of carboxylated poly ethyleneimine for delivery of cisplatin in resistant ovarian cancer cells, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (# 11039)
3. Abedanzadeh M, Synthesis of mPEG-*b*-PMMA block copolymers via RAFT polymerization, preparation and physicochemical evaluation of curcumin-Loaded polymer micelles, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (# 10875)
4. Golkar N, Development of self-assembly of lipid conjugates of poly amidoamine dendrimers as a hybrid gene delivery system, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#10939)

5. Najafi H, Serum resistant and enhanced transfection of plasmid DNA by PEG-stabilized polyplex nanoparticles of L-histidine substituted poly ethyleneimine, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#10680)
6. Monajati M, Self-assembled nanorods of PEI-cholesterol lipopolymers for loading of sorafenib tosylate, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#11184)
7. Golkar N, Enhancement of trastuzumab cytotoxicity by anti IGF-1R siRNA loaded liposomes, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#11180)
8. Mehrvarz S, Optimization of random PEGylation and immunogenicity characterization of L-asparaginase, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#11008)
9. Hosseini Rezaei Z, "Graft-to" synthesis of mPEG-*b*-poly 2-isopropylene 2-oxazoline and carboxylate functionalization for preparation of cisplatin coordinated polymer micelles, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran (#11047)
10. Javanmardi S, AntagomiR-21, a valuable antisense agent for cancer therapy, 14th Iranian Pharmaceutical Sciences Congress (2015), Tehran
11. Tamaddon AM, Abolmaali SS, Dinarvand R, Crosslinked Poly Ethyleneimine Ionomer-Zn₂₊ Complexes for Delivery of Chemotherapeutic Agents (2014) CLINAM, Basel, Switzerland
12. Golkar N, Tamaddon AM, Mohamadi-Samani S, Modulation of the cytotoxicity of different PAMAM dendrimer-cholesterol micellar nanoparticles following incorporation into Stealth liposomal structure (2014) Iran Nanosafety Congress, Tehran
13. Abolmaali S, Tamaddon AM, Dinarvand R, Core-shell structured nano-hydrogels of polyethyleneimine ionomer containing redox-sensitive crosslinks : An evidence for the impact of morphology on biocompatibility of the macromolecules (2014) Iran Nanosafety Congress, Tehran
14. Parhizgar E, Yousefi GH, Tamaddon A, Synthesis and characterization of PLGA-mPEG block copolymers and preparation of core-shell nanoparticles for encapsulation of anticancer drug docetaxel on cancer cell line (2014) Iran Nanosafety Congress, Tehran
15. Golkar N, Tamaddon AM, Mohamadi-Samani S, Preparation and cellular characterization of different formulations of immune-PEG-nanoliposomes (2014) Proceeding of 5th international conference on nanostructures (ICNS5), Kish Island, Iran
16. Abolmaali S, Tamaddon AM, Dinarvand R, Micellar template-assisted hydrogel nanostructures of branched polyethyleneimine ionomers: synthesis and characterization (2014) Proceeding of 5th international conference on nanostructures (ICNS5), Kish Island, Iran
17. A. Salah, AM Tamaddon, F. Farjadian. Synthesis of dendronized magnetic nanoparticles as a potential nanocarriers for methotrexate (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
18. GH Yousefi, A Amini, AM Tamaddon, A biocompatible PEGylated G5 PAMAM dendrimer as a nanocarriers for delivery of docetaxel (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran

19. Najafi H, Abolmaali S, Ghasemi Y, Tamaddon AM, Application of Fmoc-peptide synthesis for development of core-shell structured nanoparticles of polyethyleneimine ionomer for plasmid delivery (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
20. Taghipour B, Yakhchali M, Haririan I, Tamaddon AM, Mohammadi-Samani S, Effects of technical and compositional variables on BSA release profile from biodegradable polymeric nanocomposite (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
21. Monajati M, Abolmaali S, Yousefi GH, Tamaddon AM, Development of self-assembled nanoparticles of PEI-cholesterol lipopolymers and their PEG derivatives for delivery of sorafenib tosylate (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
22. Safari F, Zarghami N, Abolmaali S, Tamaddon AM, Polyelectrolyte complex nanoparticles of hTERT siRNA and polyethyleneimine: effect of degree of PEGylation on biological and cellular activity (2014) 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
23. F. Hashemi, A.M. Tamaddon, G.H. Yousefi, F. Farvadi, Effect of pH on Solubilisation of Practically Insoluble Sorafenib by Classic and Stealth Polyamidoamine (PAMAM) Dendrimers and cyclodextrin (2012). Proceedings of the International Conference Nanomaterials: Applications and Properties, Vol. 1 No 2, 02NNBM06.
24. F. Farvadi, A.M. Tamaddon, F. Hashemi, PEG-grafted Hyperbranched Polyethyleneimine-Oxidized Single Walled Carbon Nanotube Complex (PEG-PEI-SWNT) for Sustained Delivery of Doxorubicin (2012). Proceedings of the International Conference Nanomaterials: Applications and Properties, Vol. 1 No 2, 02NNBM12.
25. S.S. Abolmaali, F. Safari, A. M. Tamaddon, Development of redox-sensitive, core-crosslinked, hTERT siRNA loaded polyethylene glycol grafted polyethyleneimine nanoparticles (2012). 2012 CRS Annual Meeting, Quebec, Canada.
26. A. M. Tamaddon, F. Farvadi, S. S. Abolmaali, Z. Sobhani, PEGylation of oxidized single-walled nanotubes for sustained and pH-sensitive delivery of doxorubicin (2012), 2012 CRS Annual Meeting, Quebec, Canada.
27. M. Mosaffa-Jahromi, A. Mohagheghzadeh, A. Tamaddon, S. Afsharypuor, Drug delivery and targeting in Traditional Iranian Pharmacy (2012). 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
28. G. Yousefi, A. Tamaddon, F. Hassanshahi, Synthesis and in vivo evaluation of PEGylated granulocyte colony stimulating factor (PEG-GCSF) (2012). 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
29. E. Cheraghipour, S. Abolmaali, A. Tamaddon, S. Javadpour, L. Shojaei, Cationic albumin modified magnetite nanoparticles for localized delivery of sodium methotrexate (2012). 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
30. F. Farvadi, A. Tamaddon, F. Hashem, Comparison of dioleoylphosphatidylethanolamine-polyethylene glycol (DOPE-PEG) and sodium deoxycholate micelles on stabilization of short single-walled carbon nanotubes for doxorubicin loading and delivery (2012). 13th Iranian Pharmaceutical Sciences Congress, Isfahan.

31. .N. Golkar, A. Tamaddon, S. Mohammadi-Samani, Effect of lipid composition on incorporation of trastuzumab-lipid-PEG micelles into liposomes and association of the immunoliposomes in HER-2 positive breast cancer cells (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
32. F. Hashemi, A. Tamaddon, G. Yousefi, F. Farvadi, Effect of PH on the solubility of practically insoluble sorafenib by comparing polyamidoamine (PAMAM) dendrimers with β -cyclodextrin (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
33. S. Tavakoli, N. Golkar, A. Tamaddon, S. Mohammadi-Samani. Optimization of DNA/lipid complex microencapsulation into liposome by reverse-evaporation method (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
34. .E. Cheraghipour, A. Tamaddon, S. Javadpour, A. Mehdizadeh, PEGylated superparamagnetic magnetite nanoparticles for magnetic fluid hyperthermia therapy (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
35. G. Yousefi, A. Tamaddon, E. Parhizgar, Synthesis of PEG-PLGA copolymer for preparation of docetaxel nanoparticles (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
36. F. Safari, A. Tamaddon, N. Zarghami, S. Abolmali, H. Najafi, Effect of degree of polyethyleneimine PEGylation on biological and cellular activity of hTERT siRNA (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan.
37. A.M. Tamaddon, S.S. Abolmaali, F. Safari, Development of redox-sensitive, core-crosslinked, hTERT siRNA loaded polyethylene glycol grafted polyethyleneimine nanoparticles, Colloids and Nanomedicine (2012), Amsterdam, The Netherlands.
38. A.M. Tamaddon, F. Hashemi, G.H. Yousefi, Effect of pH on solubilisation of practically insoluble sorafenib by native and stealth polyamidoamine (PAMAM) dendrimers, Colloids and Nanomedicine (2012), Amsterdam, The Netherlands.
39. A.M. Tamaddon, R. Ravanfar, M. Niakosari, M.R. Moein, M. Aminlari, Optimization of solid lipid nanoparticles prepared by microemulsion dilution for microencapsulation of bioactive compounds from red cabbage, Colloids and Nanomedicine (2012), Amsterdam, The Netherlands.
40. A.M. Tamaddon, F.S. Farvadi, S.S. Abolmaali, Z. Sobhani, PEG-grafted hyperbranched polyethyleneimine-oxidized single walled carbon nanotubes (PEG-PEI-SWNT) for a sustained delivery of doxorubicin, Colloids and Nanomedicine (2012), Amsterdam, The Netherlands.
41. Ali M. Tamaddon. Preparation and cellular characterization of stealth immunoliposomes targeted against HER-2 in breast tumor cells, Nanomedicine (2010), Sant-Feliu-de-Guixols, Spain.
42. Nasim Golkar, Ali M Tamaddon, Soleyman Mohammadi Samani. Preparation And cellular characterization of trastuzumab-conjugated stealth nanoliposomes against HER-2 in breast tumor cells, 3rd International Conference on Nanoscience and Nanotechnology (2010), Shiraz.
43. Mojgan Nikravesh, Ali M Tamaddon, Hossein Niknahad. Enhanced doxorubicin chemosensitivity of breast cancer cells transfected by complexes of cationic nanoliposome / Survivin antisense (Lipoplexes), 3rd International Conference on Nanoscience and Nanotechnology (2010), Shiraz.

44. Farvadi Fakhr-O-Sadat, Ali M Tamaddon, Samira Sadat Abolmaali. Targeted delivery of doxorubicin loaded PEGylated single-wall carbon nanotubes by Nucleolin aptamer, 3rd International Conference on Nanoscience and Nanotechnology (2010), Shiraz.
45. Nassim Golkar, Ali M. Tamaddon, Amir M. Vali, Soleyman M. Samani, Preparation and Cellular Characterization of Stealth Immunoliposomes Targeted against HER-2 in Breast Cancer, 12th Iranian Pharmaceutical Sciences Conference (2010), Zanjan.
46. Ali M. Tamaddon, Mojgan Nikraves, Hossein Niknahad, Dual Delivery of Doxorubicin and Antisense Oligonucleotide Targeted against Survivin in Breast Cancer, 12th Iranian Pharmaceutical Sciences Conference (2010), Zanjan.
47. Tamaddon AM, Golkar N, Vali AM, Samani SM. Preparation and cellular characterization of stealth immunoliposomes targeted against HER-2 in breast cancer, 4th Iranian Controlled Release Conference (2009), Zanjan.
48. Tamaddon AM, Nikraves M, Niknahad H. Dual delivery of doxorubicin and antisense oligonucleotide targeted against Survivin in breast cancer, 4th Iranian Controlled Release Conference (2009), Zanjan.
49. Hoorang S, Tamaddon AM, Derakhshan N, Atashpare N, Golkar N. Preparation and Characterization of Coated Cationic Liposomes Encapsulating against *Leishmania*. 6th International Scientific Conference for Medical Students in the GCC Countries (2009), *Journal of Medical Sciences*, Dubai, UAE.
50. Ali M Tamaddon, Nasim Golkar, Soleyman Mohammadi Samani. HER-2 targeted PEG-PE immuno-micelle for bioluminescent imaging, 11th International Conference on Advanced Materials (2009), Rio de Janeiro, Brazil.
51. S.S. Abolmaali, A.M. Tamaddon, F.H. Shirazi, H.R. Moghimi. Cellular pharmacokinetic of PEG-stabilized antisense nanoliposomes, 11th International Conference on Advanced Materials (2009), Rio de Janeiro, Brazil.
52. M. Hoorang, A.M. Tamaddon, G.R. Yousefi. Preparation of PEGylated green fluorescent protein for bioluminescent imaging, 11th Conference on Advanced Materials (2009), Rio de Janeiro, Brazil.
53. Hoorang S, Hatam GR, Tamaddon AM. Macrophage targeted delivery of encapsulated 10-23 RNA cleaving DNzyme against Mini-Exon gene sequence of *Leishmania*. 6th International Workshop on Drug Delivery Systems for Nanomedicine (2008), Liblice Castle, Czech.
54. Tamaddon AM, Moghimi HR, Shirazi FH. Urea-enhanced cellular delivery of cationic liposome encapsulating antisense oligodeoxynucleotide. 6th International Workshop on Drug Delivery Systems for Nanomedicine (2008), Liblice Castle, Czech.
55. Peymani P, Tamaddon AM, Hamidi M, Shahbazi MA, Jaberipour M. Modulation of physicochemical properties of chitosan-TPP nanoparticles intended for P53 gene delivery. 6th International Workshop on Drug Delivery Systems for Nanomedicine (2008), Liblice Castle, Czech.
56. Tamaddon AM, Shirazi FH, Moghimi HR. Endosomal membrane modeling vesicles simulates nucleic acid release from encapsulated cationic nanoliposome. 14th International Pharmaceutical Technology Symposium (2008), Antalya, Turkey.

57. Peymani P, Tamaddon AM, Hamidi M, Shahbazi MA, Jaberipour M. Formulation of chitosan based nanoparticles for gene delivery of P53. 14th International Pharmaceutical Technology Symposium (2008), Antalya, Turkey.
58. Golkar N, Tamaddon AM, Moghimi H, Shirazi FH. Factorial design optimization of chromatographic conditions for analysis of antisense drug. 11th Iranian Pharmaceutical Sciences Conference (2008), Kerman.
59. Dinari N, Omidi M, Tamaddon AM, Mohammadi Samani S. Preparation and in-vitro evaluation of lamotrigine loaded chitosan nanoparticles. 11th Iranian Pharmaceutical Sciences Conference (2008), Kerman.
60. Peymani P, Hamidi M, Tamaddon AM, Shahbazi MA, Jaberipour M. Fabrication and optimization of chitosan nanoparticles as a novel gene delivery system for efficient transfection of DNA in cancer gene therapy. 11th Iranian Pharmaceutical Sciences Conference (2008), Kerman.
61. Peymani P, Jaberipour M, Hamidi M, Tamaddon AM. Chitosan-based nanoparticulate gene delivery systems: A review on chemical modifications and fabrication methods. 3rd Iranian Conference of Novel Drug Delivery Systems (2007), Tehran.
62. Tamaddon AM, Toub N, Bertrand JR, Malvy C, Couvreur P. siRNA loaded isobutylcyanoacrylate nanocapsules against EWS/Fli-1 oncogene in Ewing sarcoma. 10th Iranian Seminar of Pharmaceutical Sciences (2006), Tehran.
63. Tamaddon AM, Villemeur M, Bertrand JR, Malvy C. Efficiency and specificity of antisense oligonucleotides and siRNA directed against junction oncogene of EWS-Fli-1 in Ewing sarcoma. 10th Iranian Seminar of Pharmaceutical Sciences (2006), Tehran.
64. Tamaddon AM, Shirazi FH, Moghimi HR. DODAP liposomal delivery of antisense oligonucleotide to tumor cells. 4th Eurengethy International Conference (2005), Paris, France.
65. Abolamaali SS, Tamaddon AM, Foroutan M, Zarghi A. Physicochemical factors influencing the kinetic of chemical decomposition of Co-Amoxiclav oral suspension. 9th Iranian Seminar of Pharmaceutical Sciences (2004), Tabriz.
66. Tamaddon AM, Sharif-Makhmalzadeh B, Moghimi HR. Statistical modeling of salicylate entrapment within REV niosomes: A response-surface methodology. 1st EUFEPS Conference on Optimizing Drug Delivery & Formulation (2003), Versailles, France.
67. Tamaddon AM, Abolmaali SS. Fractal geometry and its application to describe the complexities of interfacial phenomena. 1st National Seminar of Novel Drug Delivery Systems (2003), Tehran.
68. Tamaddon AM, Mirfazli S, Ghadiri M, Aboofazeli R. Central-composite design to visualize Simplex optimization process for percutaneous absorption of salicylate from phospholipid microemulsion. 11th International Pharmaceutical Technology Symposium (2002), Istanbul, Turkey.
69. Chalak A, Tamaddon AM. Novel drug delivery systems to treat cancers: A review. 1st National Seminar of Medicine and Industry (2001), Ahvaz.
70. Zargarzadeh AH, Tamaddon AM. Drug utilization evaluation (DUE) of Warfarin in Esfahan University affiliated hospitals. 7th Iranian Seminar of Pharmaceutical Sciences (2000), Mashed.

Lectured Workshops:

- 2016: “Cell culture-based bio-assays” workshop, Center for Nanotechnology in Drug Delivery, Shiraz School of Pharmacy
- 2015: 1st workshop on “Cellular characterization of nanomaterials”, Center for Nanotechnology in Drug Delivery, Shiraz School of Pharmacy
- 2015: “Cell culture-based bio-assays” workshop, Center for Nanotechnology in Drug Delivery, Shiraz School of Pharmacy
- 2015: “Flow cytometry and its applications in cellular drug delivery” workshop, Center for Nanotechnology in Drug Delivery, Shiraz School of Pharmacy
- 2015: “An introduction to Nanomedicine”, Spring NanoSchool, Shiraz University
- 2015: “Cellular aspects of nanomaterials” workshop, Asian Nano Forum, Kish Island
- 2014: “BioAFM imaging” workshop, Shiraz School of Medicine, Shiraz University of Medical Sciences
- 2013: 1st workshop on “BioAFM imaging”, Shiraz School of Advanced Biomedical Sciences and Technologies, Shiraz University of Medical Sciences
- 2013: 1st workshop on “Experimental data analysis using Graphpad Prism software”, Shiraz School of Pharmacy and Center for Nanotechnology in Drug Delivery
- 2010: “Experimental design: methodologies and applications in drug development” workshop, Controlled Release Society Biennial Meeting, Zanjan University of Medical Sciences
- 2009: “Research methodology in pharmaceutical sciences” workshop, Shiraz School of Pharmacy and Pharmaceutical Sciences Research Center
- 2008: “Endnote software” workshop, Shiraz School of Pharmacy and Pharmaceutical Sciences Research Center
- 2008: 1st workshop on “Bibliography using Endnote”, Deputy of Research, Shiraz University of Medical Sciences
- 2008: 1st workshop on “Getting familiar with granting organizations”, Deputy of Research, Shiraz University of Medical Sciences
- 2005: “Cell culture and cytotoxicity assays” workshop, Shaheed-Beheshti Medical University

Teaching Experiences:

1. “Microscopy and Analysis of Nanomaterials”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
2. “Nanomaterials for Drug Delivery Applications”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
3. “Polymer Science and Engineering”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy

4. "Pharmacokinetics", Pharmaceutics and Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
5. "Nanotechnology for Pharmacy Students", Pharm.D. Program, Shiraz School of Pharmacy
6. "Nanoparticulate Drug Delivery Systems", Pharmaceutics Ph.D. Program, Shiraz School of Pharmacy
6. "Nano-Biotechnology", Medical Biotechnology M.Sc. and Ph.D. Program, Shiraz School of Advanced Biomedical Sciences and Technologies
7. "Pharmaceutics V (Novel Drug Delivery Systems)", Pharm.D. Program, Shiraz School of Pharmacy
8. "Pharmaceutical Statistics", Pharmaceutics and Pharmaceutical Nanotechnology Ph.D. Programs, Shiraz School of Pharmacy
9. "Biopharmaceutics and Pharmacokinetics", Pharm.D. Program, Shiraz School of Pharmacy
11. "Physicochemical Aspects of Pharmacy (1 & 2)", Pharm.D. Program, Shiraz School of Pharmacy
12. "Powder Technology", Pharmaceutics Ph.D. Program, Shiraz School of Pharmacy
13. "Diffusion, Dissolution and Release", Pharmaceutics Ph.D. Program, Shiraz School of Pharmacy
14. "Pharmacy Clerkship", Pharm.D. Program, Shiraz School of Pharmacy

Thesis supervision:

1. Ms. Zahra Hosseini Rezaei (Pharm.D.), 2017: Co-Supervisor, Synthesis and characterization of carboxylated poly (mPEG-methacrylate-co-2-isopropylene 2-oxazoline) for delivery of cisplatin, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
2. Dr. Sahar Abbasi (Ph.D.), 2017: Co-Supervisor, Poly L-histidine-*b*-Poly HPMA polymer micelles for cellular delivery of paclitaxel, Department of Pharmaceutics, Shiraz School of Pharmacy
3. Ms. Raziéh Nemati (M.Sc.), 2017: Co-Supervisor, Preparation and characterization of proniosomal formulations for oral delivery of genistein, Department of Food Science and Technology, Shiraz University
4. Ms. Ladan Ghahramani (Pharm.D.), 2016: Co-Supervisor, Synthesis and cellular characterization of cisplatin-loaded, carboxylic acid-functionalized poly ethyleneimine Stealth nanogels, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
5. Dr. Faezeh Saadati (D.D.S.), 2016: Co-Supervisor, A new doxycycline gel formulation for subgingival application in experimental periodontitis in rats, Shiraz School of Dentistry
6. Ms. Mehrnoosh Behzadnia (Pharm.D.), 2015: Supervisor, Mesoporous starch for oral delivery of sorafenib, Shiraz School of Pharmacy
7. Dr. Maryam Mosaffa (Ph.D.): Supervisor, 2015: Colon-targeted delivery of anis oil and clinical trial in IBS Patients, Shiraz School of Pharmacy
8. Dr. Nasim Golkar (Ph.D.), 2015: Supervisor, HER-2 Targeted, Anti-VEGF SiRNA loaded dendrosomes, Shiraz School of Pharmacy
9. Ms. Asal Samadnejad (Pharm.D.), 2015: Supervisor, Biological and immunological characterization of PEGylated L-Asparaginase, Shiraz School of Pharmacy

10. Ms. Mojgan Abedanzadeh (Pharm.D.), 2015: Supervisor, Micellar polymer nanoparticles of mPEG-*b*-PMMA for delivery of phytochemicals (curcumin), Shiraz School of Pharmacy
11. Mr. Esmail Mirzaei (Ph.D.), 2015: Advisor, Differentiation of endometrial stem cells to neurons on carbon nanofibers prepared by electro-spinning method, Department of Medical Nanotechnology, Tehran University of Medical Sciences
12. Mr. Shayan Mehrvarz (Pharm.D.), 2014: Co-Supervisor, Synthesis and physicochemical characterization of PEG-succinimidyl succinate conjugates of L-Asparaginase, Shiraz School of Pharmacy
13. Dr. Mohammadzadeh (D.D.S), 2014: Preparation and characterization of Ag NPs loaded collagen film for periodontal infections, Shiraz School of Dentistry
14. Mr. Ali Shahabuei (Pharm.D.), 2014: Co-supervisor, Preparation of an injectable thermosensitive in-situ forming hydrogel for sustained delivery of doxycycline, Shiraz School of Pharmacy
15. Mr. Hossein Rezaei (Pharm.D.), 2014: Co-supervisor, Preparation and characterization of chitosan modified MWNT carbon nanotubes for sustained delivery of doxycycline, Shiraz School of Pharmacy
16. Dr. Behzad Taghipour (Ph.D.), 2014: Advisor, PLGA Nanoparticles for parenteral controlled release formulation of growth hormone, Shiraz School of Pharmacy
17. Ms. Mahdokht Mahmoudi (M.Sc.), 2014: Supervisor, Imidazolyl mesoporous silica nanoparticles for Transfection of GFP plasmid, Shiraz School of Pharmacy
18. Ms. Fatemeh Hasanshhi (Pharm.D.), 2014: Co-Supervisor, Preparation, physicochemical and biological characterization of mono-PEGylated G-CSF, Shiraz School of Pharmacy
19. Dr. SamiraSadat Abolmaali (Ph.D.), 2014: Supervisor, Hydrogel nanoparticles of mPEG-*g*-(PEI-His) for delivery of methotrexate in experimental model of rheumatoid arthritis, Shiraz School of Pharmacy
20. Mr. Ali Salah (Pharm.D.), 2013: Supervisor, Polyamidoamine dendronized magnetic nanoparticles for delivery of methotrexate, Shiraz School of Pharmacy
21. Dr. Yasmin Ghahramani (Dental Specialist), 2013: Co-Supervisor, Development of a new pulp capping material in comparison with mineral trioxide aggregate in rat molar, Shiraz School of Dentistry
22. Mr. Afshin Samiei (Ph.D.), 2013: Advisor, Liposomal vaccine containing PMV and MPL for cutaneous leishmaniasis by dehydration-rehydration method, Shiraz School of Medicine
23. Ms. Haniyeh Najafi (Pharm.D.), 2013: Supervisor, Preparation and cellular characterization of micellar polymeric nanoparticles of PEG-*g*-(mPEI-His) and GFP Plasmid, Shiraz School of Pharmacy
24. Ms. Maryam Monajati (Pharm.D.), 2013: Supervisor, Development of micellar polymeric nanoparticles of cholesterol-*g*-PEI-*g*-mPEG for loading of poorly soluble drug sorafenib, Shiraz School of Pharmacy
25. Ms. Mojdeh Motamedi (Pharm.D.), 2013: Co-Supervisor, Synthesis and characterization of PLA-*b*-mPEG micellar polymeric nanoparticles for delivery of paclitaxel, Shiraz School of Pharmacy
26. Ms. Mehri Mollai (Pharm.D.), 2013: Supervisor, Synthesis and characterization of cationic human serum albumin conjugated magnetic nanoparticles intended for brain delivery, Shiraz School of Pharmacy
27. Ms. Azadeh Amini (Pharm.D.), 2013: Co-Supervisor, Preparation and physicochemical characterization of PEGylated PAMAM dendrimers for delivery of docetaxel, Shiraz School of Pharmacy

28. Ms. Fatemeh Safari (M.Sc.), 2012: Co-Supervisor, Delivery of hTERT SiRNA using polyionic complex nanoparticles in adenocarcinoma cells, Tabriz University of Medical Sciences
29. Ms. Shirin Tavakoli (Pharm.D.), 2012: Supervisor, Taguchi Design optimization of nanoencapsulation of nucleic acids-DOTAP complexes in PEGylated liposomes by reverse phase evaporation, Shiraz School of Pharmacy
30. Ms. Fakhrsadat Farvadi (Pharm.D.), 2012: Supervisor, SWNT-COOH/mPEG-g-PEI for targeted delivery of doxorubicin in breast tumor cells, Shiraz School of Pharmacy
31. Ms. Fatemeh Hashemi (Pharm.D.), 2012: Supervisor, PEGylation of PAMAM dendrimers for solubilization of sorafenib and delivery to hepatocellular carcinoma *in-vitro*, Shiraz School of Pharmacy
32. Ms. Elaheh Parhizkar (Pharm.D.), 2012: Co-Supervisor, Synthesis and characterization of PLGA-mPEG copolymers and preparation of micellar nanoparticles for delivery of docetaxel, Shiraz School of Pharmacy
33. Ms. Lida Shojaei (Pharm.D.), 2012, Co-supervisor, Pharmacokinetics of high-dose methotrexate in acute lymphoblastic lymphoma patients for determination of leucovorin rescue termination, Shiraz School of Pharmacy
34. Mr. Mehdi Hourang (Pharm.D.), 2012: Supervisor, *In-vivo* bioluminescence imaging of PEGylated human serum albumin in carrageen induced inflammation, Shiraz School of Pharmacy
35. Ms. Elham Cheraghipour (M.Sc.), 2012: Co-Supervisor, Synthesis of mPEG-functionalized magnetite nanoparticles for delivery of methotrexate, Shiraz University
36. Ms. Elahe Omidvari (Pharm.D.), 2012: Co-Supervisor, DUE and determination of plasma level of vancomycin in ICU of Namazi Hospital, Shiraz School of Pharmacy
37. Ms. Raheleh Ravanfar (M.Sc.), 2011: Co-Supervisor, ultrasonic extraction of bioactives from red cabbage and microencapsulation in solid lipid nanoparticles for application in food and pharmaceutical industry, Shiraz University
38. Ms. Mojgan Nikravesht (Pharm.D.), 2011: Supervisor, Effect of survivin directed antisense lipoplexes on chemo-sensitivity of breast tumor cells to doxorubicin, Shiraz School of Pharmacy
39. Ms. Maryam Bagheri (Pharm.D.), 2010: Supervisor, Absorption pharmacokinetics of oxcarbazepine and relationship to ABCB1 SNP in Iranian healthy volunteers, Shiraz School of Pharmacy
40. Ms. Tayebeh Khaliji (Pharm.D.), 2010: Co-Supervisor, Fabrication of paramomycin loaded solid lipid nanoparticles by precipitation from microemulsion, Shiraz School of Pharmacy
41. Mr. Nader Dinari (Pharm.D.), 2010: Co-Supervisor, Preparation and pharmaceutical characterization of lamotrigine chitosan nanogels, Shiraz School of Pharmacy
42. Ms. Nasim Golkar (Pharm.D.), 2009: Supervisor, Preparation and cellular characterization of PEG-immunoliposomes against HER-2 in breast tumor cells, Shiraz School of Pharmacy
43. Dr. Mohsen Salmanpour (Ph.D.): Supervisor, Micellar polymeric conjugate nanoparticles of PEOx-b-PMA and SN-38 for delivery in experimental model of colorectal cancer, Department of Pharmaceutics, Shiraz School of Pharmacy

44. Dr. Hassan Mostofi (Ph.D.): Co-Supervisor, Polypeptide block copolymeric micelles for cellular delivery of paclitaxel, Department of Pharmaceutics, Shiraz School of Pharmacy
45. Ms. Sanaz Javanmardi (Ph.D.): Co-Supervisor, Synthesis of poly 2-oxazoline nanogels for cellular delivery of antagomiR-21 in cisplatin-resistant ovary tumor cells, Department of Biochemistry, Guilan University
46. Mr. Nooraldeen Faraji (Ph.D.): Co-Supervisor, Development of a diagnostic tool based on scFv-functionalized gold nanoparticles for colorimetric detection of a cancer biomarker in patient urine samples, Department of Medical Biotechnology, Shiraz University of Medical Sciences
47. Dr. Maryam Monajati (Ph.D.): Co-Supervisor, Poly HPMA-PEG based nanogels for delivery of L-asparaginase *in vivo*, Department of Pharmaceutical Nanotechnology, Tehran University of Medical Sciences
48. Ms. Marjan Soleimanpour (Ph.D.): Co-Supervisor, Preparation and *in-vivo* characterization of mesoporous structures for oral delivery of genseitein, Department of Food Science and Technology, Isfahan University of Technology
49. Ms. Matin Naghizadeh (Ph.D.): Advisor, Preparation and characterization of magnetic nanocomposites as green adsorbents for concentrating metal ions, Department of Chemistry, Kerman University
50. Ms. Mahvand Saeedvaghefi (Pharm.D.): Supervisor, Preparation and characterization of polyionic complex micelles of mPEG-poly γ benzyl L-glutamic acid and LMW chitosan for delivery of SN-38, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
51. Ms. Chavoshi (Pharm.D.): Co-Supervisor, Development of silibinin containing polymer micelles and *in-vivo* transdermal investigation in psoriatic model in rat, Shiraz School of Pharmacy

Research Grants:

- 2016 – present: Tamaddon AM, Yousefi GH, Ghasemi Y, Pilot-plant production of PEG-asparaginase, National Institute for Medical Research Development
- 2016 - present: Abolmaali SS, Tamaddon AM, Valizadeh H, Sadeghpour H, Mohammadi S, Solid-phase synthesis of MMP-9 sensitive gemcitabine peptide conjugate nano-assemblies for delivery in breast cancer cells, Shiraz University of Medical Science
- 2015 - present: Dinarvand R, Tamaddon AM, Abolmaali SS, Monajati M, Synthesis of poly HPMA-PEG nanogels for delivery of L-asparaginase *in vivo*, Tehran University of Medical Sciences
- 2014 - present: Tamaddon AM, Samani SM, Yousefi GH, Salmanpour M, Synthesis of poly glutamate block poly 2-ethyl 2-oxazoline, preparation and characterization of self-assembled nanoparticles thereof for delivery of SN-38 in experimental colorectal carcinoma model, Shiraz University of Medical Sciences
- 2014 - present: Tamaddon AM, Abolmaali SS, Development of PEG - poly glutamate micellar nanoparticle parenteral formulation containing cisplatin for delivery in colorectal cancers, Health Technology Development, Ministry of Health and Medical Education
- 2011-2014: Tamaddon AM, Samani SM, Golkar N, Preparation and characterization of anti-VEGF siRNA loaded poly amidoamine dendrosome for targeted delivery in HER-2 positive breast tumor cells, granted by Graduate Education Office, Shiraz University of Medical Sciences (#6097)

7. 2011-2014: Tamaddon AM, Dinarvand R, Abolmaali SS, Preparation and characterization of PEGylated poly ethyleneimine (L-histidine substituted) nanogels for delivery of methotrexate in experimental rheumatoid arthritis, Shiraz University of Medical Sciences and Nanotechnology Research Centre, Tehran University of Medical Sciences (#5979)
8. 2009-2010: Tamaddon AM, Niknahad H, Nikravesht M, Preparation of anti-Survivin antisense oligonucleotide-loaded liposomes and characterization of their effect on chemosensitivity of breast tumor cells to doxorubicin, Shiraz University of Medical Sciences (#4704)
9. 2009-2012: Tamaddon AM, Yousefi GH, Hasanshahi F, Bioengineering of filgrastim through site-specific protein PEGylation: preparation, physicochemical and biologic characterization *in-vivo*, Advanced Medical Science and Technology, Shiraz University of Medical Sciences (#4675)
10. 2007-2014: Tamaddon AM, Samani SM, Golkar N, Preparation and cellular characterization of siRNA-loaded immunoliposomes targeting anti-IGF1R for enhanced chemosensitivity in HER-2 positive breast tumor cells, Nanotechnology Sub-Committee, Food and Drug Organization (#3720)

Pharmaceutical Technology Development Projects:

1. Development of mPEG-poly amino acid polymer micelle technology for parenteral delivery of platinum compounds
2. Synthesis of PEGylated pharmaceutical proteins and formulation thereof to attenuate immunogenicity and to enhance PK properties
3. Synthesis of block copolymer micelles and parenteral formulation thereof for delivery of poorly-soluble chemotherapeutics agents and phytochemicals
4. Liposome technology for encapsulating phytochemicals, nutraceuticals and biopharmaceuticals