

Curriculum Vitae

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Samira Sadat ABOLMAALI, Pharm. D., Ph.D.

Assistant Professor,

Department of Pharmaceutical Nanotechnology,

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Educational Records

PhD Student (October 2009 – April 2014), Department of Pharmaceutics, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, *Ranked 1st Top-Student (18.97/20)*.

Doctor of Pharmacy (February 1998 – February 2004), Shaheed-Beheshti School of Pharmacy, Tehran, *Ranked 1st Top-Student (18.06/20)*.

Diploma, Experimental Sciences (June 1997), Experimental Sciences, NARJES High School, Tehran *(18.83/20)*.

Thesis/Dissertation

Ph.D Dissertation:

#628, Entitled “Development of L-Histidine Substituted Poly Ethylene Oxide Grafted Poly Ethyleneimine Nano-Hydrogels for Passive Targeted Delivery of Methotrexate in Experimental Arthritis Model”, under supervision of Dr. Ali Mohammad Tamaddon (Shiraz University of Medical Sciences) and Dr. Rasoul Dinarvand (Tehran University of Medical Sciences), Evaluated and Defended on April 17, 2014 (20/20).

Pharm.D Thesis:

#730, Entitled “HPLC Determination of Chemical Stability of Co-amoxiclav Suspension after Reconstitution in Aqueous Media and Physicochemical Factors Governing the Product Stability”, Supervised by Dr. Seyed Mohsen Forutan and Dr. Afshin Zarghi, Evaluated and Defended on February 26, 2004 (19.9/20).

Appointments

1. Vice-Director (September 2016- Present), Pharmaceutical Nanotechnology Department, Shiraz University of Medical Sciences, Shiraz
2. Head, Faculty Office on Talented Students (November 2014- Present), Shiraz School of Pharmacy, Shiraz
3. Assistant Professor (August 2014- Present), Shiraz School of Pharmacy, Shiraz University of Medical Sciences, Shiraz
4. Coordinator/Instructor (April 2014- Present), Pharmacy Clerkship of Medical Interns, Shiraz University of Medical Sciences, Shiraz
5. Pharmacy Practice (September 2007-September 2009), Shaheed-Motahari Clinic, Shiraz University of Medical Sciences, Shiraz
6. Research Assistant (2004), Pharmaceutical Sciences Research Center (PSRC), Tehran University of Medical Sciences, Tehran

Awards/Honors

1. Inappreciable process of educational management and leadership on "First intra-university pharmacy student Olympiad to promote problem solving skills with emphasis on integrated education in fields of pharmaceutical sciences and clinical pharmacy", 11th Shaheed Motahari's Festival, Tehran, 2018.
2. Distinguished Ph.D student, Shiraz University of Medical Sciences (Section of Pharmaceutics, 2012)
3. Ranked 1st top student, Comprehensive Board Exam (entry 2009), Shiraz School of Pharmacy, Tehran (2011)
4. National Elite Foundation, Iran (since 2009)
5. Ranked 1st top student, National Ph.D. Admission Exam (Section of Pharmaceutics), Ministry of Health and Medical Education (2009).
6. Ranked 1st top student, Celebration of Pharm.D. Graduation (entry 1998), Shaheed-Beheshti School of Pharmacy, Tehran (2004)
7. Ranked 1nd top student, National Basic Sciences Comprehensive Exam (Section of Doctor of Pharmacy), Shaheed-Beheshti Medical University, Ministry of Health and Medical Education (2000)

Publications

1. Tamaddon A, Farvadi F, Shojaei L, Zareifar S, **Abolmaali SS**, Namazi S. Rapid and specific chromatography method on monolithic RP-column for determination of high-dose methotrexate pharmacokinetics in sera of cancer patients admitted to Shiraz Amir Hospital. Trends in Pharmaceutical Sciences. 2020;6(3).

2. Soleimanpour M, Tamaddon AM, Kadivar M, **Abolmaali SS**, Shekarchizadeh H. Fabrication of nanostructured mesoporous starch encapsulating soy-derived phytoestrogen (genistein) by well-tuned solvent exchange method. *International Journal of Biological Macromolecules*. 2020.
3. Shafiee M, **Abolmaali SS**, Tamaddon AM, Abedanzadeh M, Abedi M. One-pot synthesis of poly (alkyl methacrylate)-functionalized mesoporous silica hybrid nanocomposites for microencapsulation of poorly soluble phytochemicals. *Colloid and Interface Science Communications*. 2020; 37:100298.
4. Rahiminezhad Z, Tamaddon AM, Borandeh S, **Abolmaali SS**. Janus nanoparticles: New generation of multifunctional nanocarriers in drug delivery, bioimaging and theranostics. *Applied Materials Today*. 2020; 18:100513.
5. Javanmardi S, Tamaddon AM, Aghamaali MR, Ghahramani L, **Abolmaali SS**. Redox-sensitive, PEG-shielded carboxymethyl PEI nanogels silencing MicroRNA-21, sensitizes resistant ovarian cancer cells to cisplatin. *Asian Journal of Pharmaceutical Sciences*. 2020;15(1):69-82.
6. Jafari M, **Abolmaali SS**, Najafi H, Tamaddon AM. Hyperbranched polyglycerol nanostructures for anti-biofouling, multifunctional drug delivery, bioimaging and theranostic applications. *International Journal of Pharmaceutics*. 2020; 576:118959.
7. Gholijani N, **Abolmaali SS**, Kalantar K, Ravanrooy M-H. Therapeutic Effect of Carvacrol-loaded Albumin Nanoparticles on Arthritic Rats. *Iranian Journal of Pharmaceutical Research*. 2020;19(1):312-20.
8. Alimardani V, **Abolmaali SS**, Tamaddon AM, Ashfaq M. Recent advances on microneedle arrays-mediated technology in cancer diagnosis and therapy. *Drug Delivery and Translational Research*. 2020:1-29.
9. Alavianmehr MM, Ashrafi A, Yousefi R, Haghighi MG, **Abolmaali SS**, Rad MN, et al. Anticancer Activity Assessment and DNA Binding Properties of Two Binuclear Platinum (II) Complexes using Spectroscopic and Molecular Simulation Approaches. *Anti-cancer Agents in Medicinal Chemistry*. 2020.
10. **Abolmaali SS**, Taheri M, Abedanzadeh M, Mohammadi S, Javanmardi S, Tamaddon A. Effect of Transition-Metal Complex Formation on Modulated

- Release of Methotrexate from Nano-Hydrogels. Trends in Pharmaceutical Sciences. 2020;6(3).
11. Abedi M, **Abolmaali SS**, Abedanzadeh M, Farjadian F, Samani SM, Tamaddon AM. Core–Shell Imidazoline–Functionalized Mesoporous Silica Superparamagnetic Hybrid Nanoparticles as a Potential Theranostic Agent for Controlled Delivery of Platinum (II) Compound. International Journal of Nanomedicine. 2020; 15:2617.
 12. Kavousipour S, Mokarram P, Barazesh M, Arabizadeh E, Razban V, Mostafavipour Z, **Abolmaali SS**. Effect of CD44 Aptamer on Snail Metastasis Factor and Aggressiveness of MDA-MB-231 Breast Cancer Cell Line. Shiraz E-Medical Journal. 2020, 21(5).
 13. Najafi H, Jafari M, **Abolmaali SS**. Recent Approaches in the Treatment of Skin Ageing by Synthetic Bioactive Peptides. 2019.
 14. Naghizadeh M, Taher MA, Tamaddon A-M, Borandeh S, **Abolmaali SS**. Microextraction of Gadolinium MRI contrast agent using core-shell Fe₃O₄@SiO₂ nanoparticles: optimization of adsorption conditions and in-vitro study. Environmental Nanotechnology, Monitoring & Management. 2019; 12:100250.
 15. Moradi L, Javanmardi S, **Abolmaali SS**, Mohammadi Samani S. Passive Enhancement of Transdermal Drug Delivery: Lipid-Based Colloidal Carriers as an Emerging Pharmaceutical Technology Platform. Trends in Pharmaceutical Sciences. 2019;5(1):25-40.
 16. Monajati M, Tamaddon A, Yousefi G, **Abolmaali SS**, Dinarvand R. Applications of RAFT polymerization for chemical and enzymatic stabilization of L-asparaginase conjugates with well-defined poly (HPMA). New Journal of Chemistry. 2019;43(29):11564-74.
 17. Farahavar G, **Abolmaali SS**, Gholijani N, Nejatollahi F. Antibody-guided nanomedicines as novel breakthrough therapeutic, diagnostic and theranostic tools. Biomaterials science. 2019;7(10):4000-16.
 18. Alimardani V, **Abolmaali SS**, Borandeh S. Antifungal and Antibacterial Properties of Graphene-based Nanomaterials: A Mini-review. Journal of Nanostructures. 2019;9(3):402-13.

19. Abedi M, **Abolmaali SS**, Abedanzadeh M, Borandeh S, Samani SM, Tamaddon AM. Citric acid functionalized silane coupling versus post-grafting strategy for dual pH and saline responsive delivery of cisplatin by Fe₃O₄/carboxyl functionalized mesoporous SiO₂ hybrid nanoparticles: A-synthesis, physicochemical and biological characterization. *Materials Science and Engineering: C*. 2019; 104:109922.
20. Javanmardi S, Aghamaali MR, **Abolmaali SS**, Tamaddon AM. Progresses in microRNA delivery using synthetic nanovectors in cancer therapy. *Current pharmaceutical design*. 2018;24(31):3678-96.
21. Borandeh S, Abdolmaleki A, **Abolmaali SS**, Tamaddon AM. Synthesis, structural and in-vitro characterization of β -cyclodextrin grafted L-phenylalanine functionalized graphene oxide nanocomposite: A versatile nanocarrier for pH-sensitive doxorubicin delivery. *Carbohydrate polymers*. 2018; 201:151-61.
22. Monajati M, Tavakoli S, **Abolmaali SS**, Yousefi G, Tamaddon A. Effect of PEGylation on assembly morphology and cellular uptake of poly ethyleneimine-cholesterol conjugates for delivery of sorafenib tosylate in hepatocellular carcinoma. *BiolImpacts: BI*. 2018;8(4):241.
23. Javanmardi S, Aghamaali MR, **Abolmaali SS**, Tamaddon AM. Progresses in microRNA delivery using synthetic nanovectors in cancer therapy. *Current pharmaceutical design*. 2018;24(31):3678-96.
24. Mahmoodi M, Behzad-Behbahani A, Sharifzadeh S, **Abolmaali SS**, Tamaddon A. Co-condensation synthesis of well-defined mesoporous silica nanoparticles: effect of surface chemical modification on plasmid DNA condensation and transfection. *IET nanobiotechnology*. 2017;11(8):995-1004.
25. Khoshaman K, Yousefi R, Tamaddon AM, **Abolmaali SS**, Oryan A, Moosavi-Movahedi AA, et al. The impact of different mutations at Arg54 on structure, chaperone-like activity and oligomerization state of human α A-crystallin: The pathomechanism underlying congenital cataract-causing mutations R54L, R54P and R54C. *Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics*. 2017;1865(5):604-18.

26. Farvadi F, Tamaddon A, Sobhani Z, **Abolmaali SS**. 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*. 2017;45(5):855-63.
27. **Abolmaali SS**, Tamaddon A, Salmanpour M, Mohammadi S, Dinarvand R. Block ionomer micellar nanoparticles from double hydrophilic copolymers, classifications and promises for delivery of cancer chemotherapeutics. *European Journal of Pharmaceutical Sciences*. 2017; 104:393-405.
28. Safari F, Tamaddon AM, Zarghami N, **Abolmali SS**, Akbarzadeh A. Polyelectrolyte complexes of htert sirna and polyethyleneimine: effect of degree of peg grafting on biological and cellular activity. *Artificial cells, nanomedicine, and biotechnology*. 2016;44(6):1561-8.
29. Javanmardi S, Aghamaali RM, **Abolmaali SS**, Mohammadi S, Tamaddon AM. miR-21, an oncogenic target miRNA for cancer therapy: molecular mechanisms and recent advancements in chemo and radio-resistance. *Current gene therapy*. 2016;16(6):375-89.
30. **Abolmaali SS**, Tamaddon AM, Mohammadi S, Amoozgar Z, Dinarvand R. 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; 62:897-907.
31. Najafi H, **Abolmaali SS**, Owrangi B, Ghasemi Y, Tamaddon AM. Serum resistant and enhanced transfection of plasmid DNA by PEG-stabilized polyplex nanoparticles of L-histidine substituted polyethyleneimine. *Macromolecular Research*. 2015;23(7):618-27.
32. **Abolmaali SS**, Tamaddon AM, Mohammadi Samani S. 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;1(3):159-66.

33. **Abolmaali SS**, Tamaddon A, Kamali-Sarvestani E, Ashraf M, Dinarvand R. Stealth nanogels of histinylated poly ethyleneimine for sustained delivery of methotrexate in collagen-induced arthritis model. *Pharmaceutical research*. 2015;32(10):3309-23.
34. Farvadi F, Tamaddon A, **Abolmaali SS**, Sobhani Z, Yousefi G. Micellar stabilized single-walled carbon nanotubes for a pH-sensitive delivery of doxorubicin. *Research in pharmaceutical sciences*. 2014;9(1):1.
35. **Abolmaali SS**, Tamaddon A, Yousefi G, Javidnia K, Dinarvand R. Sequential optimization of methotrexate encapsulation in micellar nano-networks of polyethyleneimine ionomer containing redox-sensitive cross-links. *International Journal of Nanomedicine*. 2014; 9:2833.
36. **Abolmaali SS**, Tamaddon A, 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(6):977-87.
37. **Abolmaali SS**, Tamaddon AM, 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(12):2134.
38. **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.
39. **Abolmaali SS**, Tamaddon AM, Farvadi FS, Daneshamuz S, Moghimi H. Pharmaceutical nanoemulsions and their potential topical and transdermal applications. 2011.

Abstracts

1. **Abolmaali SS**, Shafiee M, Tamadon AM, Abedanzade M, Synthesis of particle and pore size-tunable mesoporous silica nanoparticles by simultaneous emulsion radical polymerization and sol-gel chemical reactions (2019), 9th international conference on nanomaterials: applications & properties, Ukraine.
2. **Abolmaali SS**, Najafi H, Azarpira N, Borandeh S, Tamadon AM, Nanostructured hydrogels through self-assembly of short aromatic peptides: mechanical and biological characterizations, (2019), MechanoChemBio 2019, Canada.
3. Tamadon AM, Monajti M, **Abolmaali SS**, Borandeh S, Dinarvand R, Synthesis of supramolecular hydrogels formed by inclusion complexes with bis(α -cyclodextrin): assembly kinetics and mechanical characterization, (2019), MechanoChemBio 2019, Canada.
4. Hosseinbeigi H, **Abolmaali SS**, Monajati M, Borandeh S. Cyclodextrin functionalized graphene nanosheets for targeted delivery of doxorubicin (2018), Pharmacy update, Iran.
5. Shafiee M, Abedanzade M, Tamadon AM, **Abolmaali SS**, Synthesis of mesoporous silica nanoparticles with controllable pore and particle size for phytochemical drug delivery (2017), Iranian pharmacy student seminar, Tehran
6. Amin S, **Abolmaali SS**, Mohammadi S, Synthesis and characterization of PEGylated poly ethyleneimine-entrapped gold nanoparticles by self-reduction (2017), International pharmaceutical federation, Sweden
7. Najafi H, **Abolmaali SS**, Tamaddon AM. Serum resistant and enhanced transfection of plasmid DNA by PEG-stabilized polyplex nanoparticles of L-histidine substituted polyethyleneimine (2016), 14th Iranian Pharmaceutical Sciences Congress, Shiraz
8. Tamaddon AM, Tavakoli SH, Monajati M, **Abolmaali SS**, Yousefi GH, Self-assembled nanorods of PEI-Cholestrol lipopolymers for loading of sorafenib tosylate (2016), 14th Iranian Pharmaceutical Sciences Congress, Shiraz

9. Hosseini- rezai Z, **Abolmaali SS**, Tamaddon AM, Graft-to synthesis of PEG-poly 2-isopropylene 2 oxazoline and carboxylate functionalization for preparation of cisplatin coordinated polymer micelles (2016), 14th Iranian Pharmaceutical Sciences Congress, Shiraz
10. Javanmardi S, **Abolmaali SS**, Aghamaali MR, Tamaddon AM, Antagomir-21, a valuable biomacromolecule for cancer therapy (2016), 14th Iranian Pharmaceutical Sciences Congress, Shiraz
11. Ghahramani L, **Abolmaali SS**, Tamaddon AM, Synthesis of stealth nanogels of carboxylated poly ethyleneimine for delivery of cisplatin in resistant ovarian cancer cells (2016), 14th Iranian Pharmaceutical Sciences Congress, Shiraz
12. **Abolmaali SS**, Tamaddon AM, Kamali-Sarvestani E, Ashraf MJ, Dinarvand R, Development of collagen-induced polyarthritis model for evaluation of a novel injectable formulation of methotrexate (2016), The 1st national Congress on animal models in experimental medical research, Shiraz
13. **Abolmaali SS**, Tamaddon AM, Dinarvand R, Block ionomer complex micelles for delivery of chemotherapeutic agents (2015), Conference Proceeding of Nanomedicines on Diagnosis and Therapy of Hard-to-Treat Diseases, Tehran
14. **Abolmaali SS**, 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
15. **Abolmaali SS**, 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
16. Tamaddon AM, Dinarvand R, **Abolmaali SS**, Zn chelation induced nanoparticulates self-assembly of L-histidine substituted PEI for biomedical

application (2014), Proceeding of 5th International Conference on Nanostructures (ICNS5), Kish Island

17. Najafi H, **Abolmaali SS**, 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
18. Tamaddon AM, Abolmaali **SS**, Yousefi GH, Dinarvand R, Crosslinked poly ethylene Ionomer-Zn complexes for delivery of chemotherapeutic agents (2014), 7th European Conference for Clinical Nanomedicine, Switzerland
19. Monajati M, **Abolmaali SS**, 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
20. Safari F, Zarghami N, **Abolmaali SS**, 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
21. **Abolmaali SS**, Tamaddon AM, Dinarvand R, Kamali E, Yousefi GH, Javidnia K, Micellar template-assisted synthesis of nano-hydrogels of poly ethyleneimine (L-histidine substituted) ionomercontaining biodegradable crosslinks for delivery of methotrexate in experimental polyarthritis model (2014), 1st Middle East and 6th Iranian Controlled Release Conference, Tehran
22. **Abolmaali SS**, Safari F, Tamaddon AM, Development of redox-sensitive, core-crosslinked, hTERT siRNA loaded polyethylene glycol grafted polyethyleneimine nanoparticles (2012), CRS Annual Meeting, Quebec, Canada
23. Tamaddon AM, Farvadi F, **Abolmaali SS**, Sobhani Z, PEGylation of oxidized single-walled nanotubes for sustained and pH-sensitive delivery of doxorubicin (2012), CRS Annual Meeting, Quebec, Canada

24. Cheraghipour E, **Abolmaali SS**, Tamaddon AM, Javadpour S, Shojaei L, Cationic albumin modified magnetite nanoparticles for localized delivery of sodium methotrexate (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan
25. Safari F, Tamaddon AM, Zarghami N, **Abolmaali SS**, Najafi H, Effect of degree of polyethyleneimine PEGylation on biological and cellular activity of hTERT siRNA (2012), 13th Iranian Pharmaceutical Sciences Congress, Isfahan
26. Tamaddon AM, **Abolmaali SS**, Safari F, Development of redox-sensitive, core-crosslinked, hTERT siRNA loaded polyethylene glycol grafted polyethyleneimine nanoparticles (2012), Colloids and Nanomedicine, Amsterdam, Netherlands
27. Tamaddon AM, Farvadi F, **Abolmaali SS**, Sobhani Z, PEG-grafted hyperbranched polyethyleneimine-oxidized single walled carbon nanotubes (PEG-PEI-SWNT) for a sustained delivery of doxorubicin (2012), Colloids and Nanomedicine, Amsterdam, Netherlands
28. **Abolmaali SS**, Tamaddon AM, Neekravesh M, Niknahad H, Enhancement of Doxorubicin Chemo-Sensitivity of HER-2 Positive Breast Cancer Cells by Dehydration-Rehydration Stabilized Lipoplexes against Survivin mRNA Transcripts (2011), 4th Clinical Nanomedicine (CLINAM), Basel, Switzerland
29. **Abolmaali SS**, Tamaddon AM, Farvadi F, Surface Functionalization of Single Wall Short Carbon Nanotubes by PEG-PE Lipid-Core Polymeric Micelle for Nucleolin Aptamer Targeted Tumor Delivery of Chemotherapeutic Agents, Nanomedicine (2010), European Science Foundation, Sant-Feliu-de-Guixols, Spain
30. Tamaddon AM, **Abolmaali SS**, Shirazi F.H, Moghimi H.R, Preparation and Cellular Characterization of PEG Stabilized Genospheres with Potential Application as Targeted Cancer Therapeutics (2010), 3rd International Conference on Nanoscience and Nanotechnology, Shiraz

31. Farvadi FS, Tamaddon AM, **Abolmaali SS**, Targeted delivery of doxorubicin loaded PEGylated single-wall carbon nanotubes by Nucleolin aptamer (2010), 3rd International Conference on Nanoscience and Nanotechnology, Shiraz
32. Tamaddon AM, **Abolmaali SS**, Najafi H, Monajati M, Preparation of aptamer targeted CdSe/ZnS quantum dots for bio-imaging in breast tumor cells (2010), 12th Iranian Pharmaceutical Sciences Congress (2010), Zanjan
33. Farvadi FS, Tamaddon AM, **Abolmaali SS**, Nucleolin aptamer targeted delivery of doxorubicin loaded on PEGylated SWNT (2010), 12th Iranian Pharmaceutical Sciences Congress, Zanjan
34. **Abolmaali SS**, Zarghi A, Tamaddon AM, Foroutan M, Studying Physicochemical Factors Influencing Degradation Kinetics of Co-Amoxiclav Oral Suspension (2004), 9th Iranian Pharmaceutical Sciences Conference, Tabriz
35. Tamaddon AM, **Abolmaali SS**, Fractal Geometry and Applications to Describe Complexities of Interfacial Phenomena (2003), 1st Conference on Novel Drug Delivery Systems, Tehran
36. Tamaddon AM, **Abolmaali SS**, Research Objectives Evaluation for Pharmacy Students of Shaheed-Beheshti Medical University (2003), 9th Annual Seminar of Iranian Pharmacy Students, Tabriz
37. **Abolmaali SS**, Zarghi A, Foroutan M, Survey of Co-Amoxiclav Stability in Aqueous Media (2003), 9th Annual Seminar of Iranian Pharmacy Students, Tabriz
38. **Abolmaali SS**, Sabooni T, Pharmacokinetic Characteristics of Stealth Liposomes (2002), 8th Annual Seminar of Iranian Pharmacy Students, Kerman
39. **Abolmaali SS**, Shahzadeh G.K, Studying the Effects of Total Extract of Teucrium Polium on Blood Level of Cholesterol and Triglyceride in Rat (2001), 7th Annual Seminar of Iranian Pharmacy Students, Isfahan

Thesis Supervision/Advisory

1. Advisor: Dr. Maryam Monajati (Ph.D., defended): Poly HPMA-PEG based nanogels for delivery of L-asparaginase in vivo, Department of Pharmaceutical Nanotechnology, Tehran University of Medical Sciences

2. Adviser, Ms. Sanaz Javanmardi (Ph.D., defended): 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
3. Supervisor, Dr. Haniye Najafi, (Ph.D.): development of self-assembled peptide nanofiber hydrogel incorporating nitric oxide donors for cell therapy in acute renal ischemia, Shiraz School of Pharmacy
4. Advisor, Ms. Marjan Soleimanpour (Ph.D.): Preparation and in-vivo characterization of mesoporous structures for oral delivery of ginsenoside, Department of Food Science and Technology, Isfahan University of Technology
5. Advisor, Mr. Mehdi Abedi, (Ph.D.): development and evaluation of nanostructured magnetic mesoporous metal-organic frameworks for delivery of platinum II compounds in ovary cancer, Shiraz School of Pharmacy
6. Supervisor, Ms. Ghazal Farahavar, (Ph.D.): Preparation and evaluation of immunoconjugated gold nanocages for targeted delivery of melittin to prostate cancer cells, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
7. Supervisor, Mr. vahid Alimardani, (Ph.D.): Suprachoidal delivery of dexamethasone by thermosensitive PEG-oligopeptide hydrogel microneedles in uveitis rabbit model, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
8. Adviser, Ms. Maryam Kazemikia (Pharm.D., defended): Synthesis and evaluation of the conjugation chemistry on physicochemical and pharmaceutical properties of PEG(4arm)-Irinotecan and PEG(4arm)-SN38 products, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy

9. Supervisor, Ms. Mina Shafiee (Pharm.D., defended): Synthesis and physicochemical characterization of mesoporous silica-poly methacrylate nanocomposites using simultaneous sol-gel and emulsion polymerization for silibinin loading, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
10. Supervisor, Ms. Sepideh Zanejad (Pharm.D., defended): Synthesis of biotinylated poly ethyleneimine-g-polyethylene glycol nanogel loaded with MTX and evaluation in 4T1 cell line, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
11. Supervisor, Yones mohebi (Pharm.D., defended): Investigating the therapeutic efficiency of MTX loaded biotin-targeted nanogels of poly ethyleneimine-g-polyethylene glycol in breast carcinoma model, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
12. Supervisor, Mr. Mohammad amin Hosseinpour (D.D.S, defended): In Vitro Comparison of antibacterial, release kinetic, cytotoxicity and physical properties of silk suture material soaked with chlorhexidine solution and coated with chlorhexidine, Shiraz School of Dentistry
13. Advisor, Mr. Mohammad Reza Keshavarz (D.D.S, defended): Comparative study of the tissue reaction to silk suture coated with chlorhexidine and common silk suture in male rat, Shiraz School of Dentistry
14. Supervisor, Ms. Sara Kheirkhah (Pharm.D., defended): Effect of Palmitoylation on Loading and Release of Dexamethasone from Mesoporous Silica Nanoparticles, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
15. Supervisor, Ms. Sepideh Alidaei (Pharm.D., defended): The effect of cimetidine, ranitidine and famotidine on cisplatin-induced nephrotoxicity in male rats, Shiraz School of Pharmacy

16. Supervisor, Mr. Hamid Gerami Fard (D.D.S, defended): Evaluation the pain relieving effect of doxepin mouthwash on oral mucositis in comparison with analgesic mouthwash (diphenhydramine, Al MgS and lidocaine 2%), Shiraz School of Dentistry
17. Supervisor, Mr. Kiarash Zamirian (Pharm.D., defended): Preparation and characterization of in-situ forming oxidized alginate hydrogels incorporating liposomal simvastatin for peripheral nerve repair, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
18. Supervisor, Ms. Mahsa Taheri (Pharm.D., defended): Synthesis and evaluation of physicochemical properties of pegylated polyethylene imine nanogels containing methotrexate complex with zinc metal ion, Department of Pharmaceutical Nanotechnology, Shiraz School of Pharmacy
19. Supervisor, Ms. Mahvand Saeed-vaghefi (Pharm.D., defended): 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
20. Supervisor, Ms. Bita Jalali (Pharm.D., defended): Evaluation of renal toxicity of cisplatin loaded carboxylated mPEG-poly ethyleneimine nanogels in comparison with the free drug in mice, Shiraz School of Pharmacy
21. Supervisor, Mr. Vahid Joker (Pharm.D., defended): Evaluation of hepatotoxicity of methotrexate loaded mPEG-poly ethyleneimine nanogels in comparison with the free drug in mice, Shiraz School of Pharmacy
22. Supervisor, Ms. Hedyeh Hosseinbeigi (Pharm.D., defended): synthesis and characterization of PEGylated nanocomposite containing graphene nano-sheets and β -cyclodextrin via disulfide linkages for delivery of doxorubicin, Shiraz School of Pharmacy

23. Advisor, Mr. Alireza Bonyani (D.D.S, defended): Comparison between the effect of triamcinolone ointment and silver nanoparticle gel on the traumatic oral ulcer healing in animal model, Shiraz School of Dentistry
24. Advisor, Mr. Komail Mahmood Soltani (Pharm.D., defended): The effect of chemical functionalization on the in vitro and in vivo toxicity of graphene nanosheets, Shiraz School of Pharmacy
25. Supervisor, Ms. Dorsa Mansouri, (Pharm.D., defended): Effect of alumina nanoparticles on the phenotype of *Trigonella foenum* in vitro cultures, Shiraz School of Pharmacy
26. Supervisor, Dr. Ghazaleh Mozafari (Ph.D., defended): assessing the effect of nanosilver-incorporated collagen membrane in guided bone regeneration in rats, Shiraz School of Dentistry
27. Advisor, Dr. Hamed Kheirkhah (D.D.S, defended): assessing the antimicrobial effect, tensile strength, cytotoxicity of sutures covered with chlorhexidine- in vitro study, Shiraz School of Dentistry
28. Supervisor, Ms. Zahra Hosseini Rezaei (Pharm.D., defended): Synthesis and characterization of carboxylated poly (mPEG-methacrylate-co-2-isopropylene 2-oxazoline) for delivery of cisplatin, Shiraz School of Pharmacy
29. Supervisor, Ms. Ladan Ghahramani (Pharm.D., defended): Synthesis and cellular characterization of cisplatin loaded carboxylated mPEG-poly ethyleneimine nanogels, Shiraz School of Pharmacy
30. Advisor, Dr. Mohammadzadeh (Ph.D., defended): Preparation and characterization of Ag NPs loaded collagen film for periodontal infections, Shiraz School of Dentistry
31. Advisor, Ms. Haniyeh Najafi (Pharm.D., defended): Preparation and Cellular Characterization of Micellar Polymeric Nanoparticles of mPEG-g-(PEI-His) and GFP Plasmid in HepG2 Cells, Shiraz School of Pharmacy

32. Advisor, Ms. Maryam Monajati (Pharm.D., defended): Development of Micellar Polymeric Nanoparticles of Cholesterol-g-PEI-g-mPEG for Loading of Poorly Soluble Drug Sorafenib, Shiraz School of Pharmacy
33. Advisor, Ms. Fatemeh Safari (M.S., defended): Polyionic Complex Nanoparticles of mPEG-g-PEI and hTERT siRNA for Transfection of A549 Cells, Tabriz University of Medical Sciences
34. Advisor, Ms. Fakhrsadat Farvadi (Pharm.D., defended): SWNT-COOH/mPEG-g-PEI for Targeted Delivery of Doxorubicin in Breast Tumor Cells, Shiraz School of Pharmacy

Teaching Activity

1. “Cell and tissue engineering”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy “Biologic membranes”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
2. "Nanostructured biomaterials for overcoming biological barriers", Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
3. “Nanomaterials for Drug Delivery Applications”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
4. “Polymer Science and Engineering”, Pharmaceutical Nanotechnology Ph.D. Program, Shiraz School of Pharmacy
5. “Nanotechnology for Pharmacy Students”, Pharm.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. Pharmacy Clerkship, Pharmacy Student, Shiraz School of Pharmacy

9. Pharmacy Clerkship, Medical Interns, Shiraz University of Medical Sciences

Certificates

1. Flow Cytometry, Shiraz University of Medical Sciences, Shiraz (2015)
2. Cell Culture Techniques, Shiraz University of Medical Sciences, Shiraz (2015)
3. Cellular Analysis of Nanomaterials, Shiraz University of Medical Sciences, Shiraz (2015)
4. Medical Education Fellowship, Shiraz University of Medical Sciences, Shiraz (2015)
5. E-Learning, Shiraz University of Medical Sciences, Shiraz (2015)
6. Ethics in Research and Education, Shiraz University of Medical Sciences, Shiraz (2014)
7. Current Issues and Solutions in Nanomedicine Efficacy and Toxicity, Tehran University of Medical Sciences, Tehran (2014)
8. Statistical Analysis Using Graphpad Prism Software, Shiraz University of Medical Sciences, Shiraz (2013)
9. Invasion/Migration Assay Using Transwell Chamber, Shiraz University of Medical Sciences, Shiraz (2013)
10. Intellectual Property, National Elite Foundation, Shiraz (2012)
11. BioAFM and BioMedical Applications, Shiraz University of Medical Sciences, Shiraz (2012)
12. Ethics in Pharmacy and Pharmaceutical Sciences, Shiraz University of Medical Sciences, Shiraz (2012)
13. How to Write a Good Paper, lectured by Dr. Habibzadeh, Editor of Lancet (middle east), Shiraz University of Medical Sciences, Shiraz (2012)
14. LC-MS-MS, Zanjan University of Medical Sciences, Zanjan (2010)

15. Enantiomer Separation, University of Medical Sciences, Zanjan (2010)
16. Experimental Design, Zanjan University of Medical Sciences, Zanjan (2010)
17. MCHE English Certificate (2009)
18. Cell Culture and Cytotoxicity Techniques, Shaheed-Beheshti School of Pharmacy, Tehran (2005)
19. Cours de Francais, Niveau A2.1, CFILC Ecole de Langues, Paris (2005)
20. Writing an Article in Medical Sciences, Pharmaceutical Research Center (PSRC), Tehran University of Medical Sciences, Tehran (2004)

Memberships and Social Activities

1. Committee member (October 2015- Present), University Commission on Gifted and Talented Students, Shiraz University of Medical Sciences, Shiraz
2. Coordinator, School of Pharmacy, University Open Day (2015)
3. Gifted and Talented Students (2012-present), Deputy of Education, Shiraz University of Medical Sciences, Shiraz
4. Controlled Release Society (2012-present), United States
5. European Society for Nanomedicine (2011-Present)
6. Iranian Pharmacist Association (2004-Present)
7. Iran Medical Counsel (2004-Present)
8. Gifted and Talented Students (2003-2004), Education Development Center (EDC), Shaheed-Beheshti University of Medical Sciences, Tehran
9. Student Research committee (2002-2004), Shaheed-Beheshti School of Pharmacy, Tehran

References

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2. Prof. Rasoul DINARVAND (dinarvand@tums.ac.ir), Ph.D. Co-Supervisor, Department of Pharmaceutics, Tehran University of Medical Sciences, Tehran (Tel: +98 (21) 66959095)
3. Prof. Afshin ZARGHI (azarghi@yahoo.com), Pharm.D. Supervisor, Department of Medicinal Chemistry, SHAHEED-BEHESHTI School of Pharmacy, Tehran (Tel: +98 (21) 88665317)