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Place of Birth:	Ardakan, Yazd, Iran

Education

2003	Pharm D	Pharmacy		Isfahan University of Medical Sciences, Isfahan, Iran Isfahan University of
2012	PhD	Biomateria	l Engineering	Technology, Isfahan, Iran
Appoin	tments at Hospitals/Affili	iated Institutio	ons	
2008	Visiting Student	Biomedical Eng	ineering	Polytechnic University of Milan
2010	Research fellow	Biomedical Eng	ineering	Duke University, USA
2016-	Visiting professor, collaborator	Biomaterial Inn Center	ovation Research	Harvard University, USA
Other I	Professional Positions			
2015-	Head of Department		Kermanshah Uni	iversity of Medical sciences
2016	Pharmaceutical Scien	nces		
2016-	- Head of Department of		Kermanshah Uni	iversity of Medical sciences
	Pharmaceutical Biom	naterials		
Major A	Major Administrative Leadership Positions			

Kermanshah University of Medical Sciences

Committee Service

2015-	Development of Applied Biotechnology	Kermanshah University of Medical
	in the west of Iran Committee	Sciences
	2015	Member

Professional Societies

2003-present	Medical Council, Iran	Member
2005-present	Iranian Association of Pharmacists	Member
2012-present	Iranian Association of Pharmaceutical	Member
	Scientists	

Grant Review Activities

2015-2016	Knowledge-Based Company	Iran Technology and
	Review Committee	Entrepreneurship Company
		Reviewer
2017-	Reviewer	Iran National Sciences
		Foundation

Editorial Activities

Carbohydrate Polymer Plus one Materials Science and Engineering C International Journal of Nanomedicine Journal of Bioactive and Compatible Polymers Pharmacognosy Magazine Iranian Journal of Pharmaceutical Sciences Biomolecular Concepts Applied Organometallic Chemistry Colloids and Surface A International Journal of Polymer Science

Honors and Prizes

2011	Students award of 2 nd Nanotoday conference	NanoToday Journal
2014	Distinguished researcher	Kermanshah University of Medical
		Sciences
2015	Best oral presentation award	14 th Iranian Pharmaceutical Sciences
		Conference
2017	Distinguished researcher	Kermanshah University of Medical
		Sciences

Report of Funded and Unfunded Projects

Funding Information

Current

2013-16	Preparation and Characterization of Tragacanth Microcapsule Containing beta-pancreatic Cells KUMS/91424 PI The major goal of the study is cell therapy for the <i>Diabetes mellitus</i>
2013-16	Producing polymeric micelles using anti-cancer drug-polymer conjugates. KUMS/91199, 93452, 93471 PI
2013-16	The major goal of the study is to develop a new generation of polymeric micelles with high drug loading capacity and co-delivery of two or more anticancer drug for combination therapy of cancers. Polymeric electro-spun mats for skin regeneration. KUMS/92268, 93419, PI
	The major goal of the study is to produce biodegradable polymeric mats containing regenerative compounds (consist of herbal and chemical) and antibiotics for regeneration of burnt skin and diabetics wounds.
2014-16	Fabrication of mono-dispersed PLGA microparticles using a microfluidic chip for drug delivery KUMS/92202, 93303, PI The major goal of the study is to develop a reproducible system for industrial production of sustained release form of triptorelin, risperidone, etc.

2016-

Report of Local Teaching and Training

The teaching of Students in Courses

2012-16	Pharmaceutics II (powders and tablets)	Kermanshah University of medical sciences
	3 rd -year pharmacy students	3-hr sessions per wk for 15 wks, 1semester per year
2012-16	Pharmaceutics IV	Kermanshah University of medical sciences
	4 th -year pharmacy students	2-hr sessions per wk for 15 wks, 1 semester per year
2012-16	Pharmaceutics V (novel drug delivery systems)	Kermanshah University of medical sciences
	5 th -year pharmacy students	2-hr sessions per wk for 15 wks, 1

		semester per year
2012-16	Polymer in pharmaceutics	Kermanshah University of medical sciences
	5 th -year pharmacy students	2-hr sessions per wk for 15 wks, 1 semester per year
2014-16	Biomaterials	Kermanshah University of medical sciences,
	Msc students of Bioelectric	3-hr sessions per wk for 15 wks, 1 semester per year
2015	Materials and systems in nano- biotechnology Ph.D. students of nano- biotechnology	Razi University, Kermanshah, 3-hr sessions per wk for 15 wks
2017-18	Novel drug delivery systems	Kermanshah University of medical sciences.
	Ph.D. students of pharmaceutical biomaterials	3-hr sessions per wk for 15 wks, 1 semester per year
2017-18	bioinaterials	Kermanshah University of medical
	Biomaterials	sciences.
	Ph.D. students of pharmaceutical biomaterials	3-hr sessions per wk for 15 wks, 2 semesters per year

<u>Clinical Supervisory and Training Responsibilities</u>

2013-	upervising and practical education of	8 sessions per semester
16	harmacy students at the educational	
	harmacy, KUMS	

Local Invited Presentations

2007	Cell culture techniques and molecular biology for Biomaterial Students/Workshop Medical University of Isfahan
2005	Pharmacology for nurses / Workshop in Fereidunshahr Hospital, Fereidunshahr, Isfahan, Iran
2010	Application of Statistic in Biomaterial Researches/ Workshop Isfahan University of Technology, Isfahan, Iran
2010	The concept of Biocompatibility in Biomaterials / Workshop Isfahan University of Technology
2010	Chemistry of nano-drug delivery / Workshop Payame-Noor University of Isfahan. Isfahan, Iran

<u>Report of Regional, National and International Invited Teaching</u> <u>and Presentations</u>

Invited Presentations and Courses

Regional

2014-16 Pharmaceutics V (novel drug delivery systems), 2-hr sessions per wk for 15 wks, 1 semester per year, Yazd University of Medical Sciences, Yazd, Iran

Report of Clinical Activities and Innovations

Current Licensure and Certification

2009- Iran's Pharmacy License present

Practice Activities

2003-	Hospital Pharmacist	Hajar Hospital,	6 h per day, 6 days/week
2005		Shahrekord, Iran	
2005	Hospital Pharmacist	Hospital of Feridunshahr,	6 h per day, 6 days/week
		Feridunshahr, Isfahan, Iran	
2003-	Pharmacist	Dr. Fattahi Pharmacy,	4 h per day, 6 days/week
2007		Asgaran, Isfahan, Iran	

Report of Technological and Other Scientific Innovations (تعداد ردیف ها در دستون بر ابر نیست) دو ستون بر ابر نیست

The antimicrobial polymeric scaffold of silk/tragacanth for the treatment of bone infection.	Iran patent, 83218, filed March 8, 2014
Nano-fibers of silk/gelatin containing antibiotic for the treatment of infections	One of my MS student and I created an antibacterial silk fibroin/de-esterified tragacanth scaffold Iran patent, 83216, filed January 26, 2014
	As a part of our research in regenerative mats for skin regeneration, we have produced an antibacterial wound dressing

<u>Report of Education of Patients and Service to the Community</u> <u>Activities</u>

Report of Scholarship

Publications

- 1. Sadeghi Aliabadi H, Ghasemi N, **Fatahi A**. Cytotoxic effects of Iranian mistletoe extract on a panel of cancer cells. Iranian J.Pharm. Sci. 2006; 2(3):157-162.
- 2. **Fattahi** A^{*}, Golozar MA, Varshosaz J, Sadeghi HM, Fathi M. Preparation and characterization of micelles of oligomeric chitosan linked to all-trans retinoic acid. Carb. Pol. 2011; 78(2):1176-1184.
- Sadeghi-Aliabadi H, Aliasgharluo M, Fattahi A, Ghanadian M. In vitro cytotoxic evaluation of some synthesized COX-2 inhibitor derivatives against a panel of human cancer cell lines. RPS. 2013; 8(4):299-304.
- Fattahi A^{*}, Petrini P, Munarin F, Shokoohinia Y, Golozar MA, Varshosaz J, Tanzi MC. Polysaccharides derived from tragacanth as biocompatible polymers and gels. J. Appl. Polym. Sci. 2013; 129(4):2092– 2102.
- 5. **Fattahi** A^{*}, Sadrjavadi K, Golozar MA, Varshosaz J, Fathi MH, Mirmohammad-Sadeghi H. Synthesis and characterization of novel chitosan oilgomer-water soluble tragacanth nanoparticles as gene carrier. Carb. Pol. 2013; 97:277–283.
- Chakraborty S, Christoforou N, Fattahi A, Herzog RW, Leong KW. A robust strategy for negative selection of Cre-LoxP recombination-based excision of transgenes in induced Pluripotent Stem Cells. Plos One. 2013; 8(5):e64342.
- Fattahi A^{*}, Golozar M-A, Varshosaz J. Retinoic Acid-Oligomeric Chitosan Micelles as Novel Gene Delivery Carrier; in Vitro Transfection Study. Journal of Reports in Pharmaceutical Sciences (JRPS). 2013; 2(2):36-41.
- 8. Mohammadi Gh, Hemati V, Mirzaee Sh, **Fattahi A**, Adibkia Kh. In vitro and In vivo evaluation of Clarithromycin-Urea solid dispersions prepared by solvent evaporation, electrospraying and freeze drying. Powder technology. 2014; 257:168-174.
- 9. Shokoohinia Y, Sajjadi SE, Gholamzadeh S, **Fattahi A**, Behbahani M. Antiviral and cytotoxic evaluation of coumarins fromPrangos ferulacea. Pharm. Biol. 2014; 52(12):1543-9.
- Tajani B, Tahvilian R, Khazaei S, Javadi KS, Fattahi A^{*}. Preparation and Characterization of Camptothecin Grafted Chitosan Oligosaccharide Nanomicelles. Journal of Reports in Pharmaceutical Sciences (JRPS). 2015; 4(1):1-11.
- 11. **Fattahi A**, Asgarshamsi M, Hasanzadeh F, Varshosaz J, Rostami M, Mirian M, et al. Methotrexate-graftedoligochitosan micelles as drug carriers: synthesis and biological evaluations. Journal of Materials Science: Materials in Medicine. 2015; 26(2):1-10.
- 12. Nayeri H, **Fattahi A**, Iranpoor-Mobarakeh M, Nori P. Stabilization of lactoperoxidase by tragacanthchitosan nano biopolymer. International Journal of Biosciences (IJB). 2015; 6(2):418-26.
- 13. Sajjadi SE, Jamali M, Shahbazi B, **Fattahi A**, Shokoohinia Y. Antiproliferative Evaluation of Terpenoids and Terpenoid Coumarins from Ferulago macrocarpa (Fenzl) Boiss. Pharmacognosy Research. 2015; 7(4):322-28.
- Shahbazi B, Taghipour M, Rahmani H, Sadr-javadi K, Fattahi A^{*}. Preparation and Characterization of Silk Fibroin/Oligochitosan Nanoparticles for siRNA Delivery. Colloids and Surfaces B: Biointerfaces. 2015; 136:867-77.
- Maghsoudi S, Ghorbani F, Ashrafi-Kooshk MR, Fattahi A, Khodarahmi R. Isolation and comparative characterization of α-amylase inhibitor from white kidney bean (Phaseolus Vulgaris): A serious in vitro assessment of the commercial product. Journal of Reports in Pharmaceutical Sciences (JRPS). 2015;4(2):167-76.
- 16. Haghighi Pak Z, Abbaspour H, Karimi N, **Fattahi A**. Eco-Friendly Synthesis and Antimicrobial Activity of Silver Nanoparticles Using Dracocephalum moldavica Seed Extract. Applied Sciences. 2016;6(3):69-78.
- 17. Safdari M, Shakiba E, Kiaie SH, **Fattahi A**^{*}. Preparation and characterization of Ceftazidime loaded electrospun silk fibroin/gelatin mat for wound dressing. Fibers and Polymers. 2016;17(5):744-50.
- Abdolmaleki S, Ghadermazi M, Fattahi A, Sheshmani S. Synthesis, characterization, spectral studies and cytotoxic effects of mixed-ligand mono and binuclear copper (II) complexes and their amide ligands. 2016; 443:284-98.
- 19. Tahvilian R, Tajani B, Sadrjavadi K, **Fattahi A**^{*}. Preparation and characterization of pH-sensitive camptothecin-cis-aconityl grafted chitosan oligosaccharide nanomicelles. International Journal of Biological Macromolecules. 2016; 92:795-802.
- 20. Fattahi A, Niyazi F, Shahbazi B, Farzaei MH, Bahrami G. Journal of Evidence-Based Complementary & Alternative Medicine. 2017; 22(1):127-33.

- 21. Jafarifar E, Hajialyani M, Akbari M, Rahimi M, Shokoohinia Y, **Fattahi** A^{*}. Preparation of a reproducible long-acting formulation of risperidone-loaded PLGA microspheres using microfluidic method. Pharmaceutical Development and Technology. 2017; 22(6):836-43.
- 22. Mohammadi Gh, Shakeri A, **Fattahi A**, Mohammadi P, Mikaeili A, Aliabadi A, Adibkia Kh. Preparation, Physicochemical Characterization and Anti-fungal Evaluation of Nystatin-Loaded PLGA-Glucosamine Nanoparticles. Pharmaceutical Research. 2017; 34(2):301-309.
- 23. Abdolmaleki S, Ghadermazi M, **Fattahi A**, Shokraii S, Alimoradi M, Shahbazi B, Judy Azar AR. Synthesis, crystallographic and spectroscopic studies, evaluation as antimicrobial and anticancer agents of a novel mixed-ligand nickel(II) complex. Journal of Coordination Chemistry. 2017; 70(8):1406-23.
- Akbari M, Rahimi M, Fattahi A, Evaluation of microparticles formation by external gelationin a microfluidic system. Journal of Chemical Engineering and Processing: Process Intensification. 2017; 117:171-78.
- 25. **Fattahi A**, Sakvand T, Hajialyani M, Shahbazi B, Shakiba M, Tajmiri A, Shakiba E. preparation and characterization of Pistacia Khinjuk Gum nanoparticles using response surface method: evaluation of its antibacterial performance and cytotoxicity. Advanced pharmaceutical bulletin. 2017; 7(1):159-64.
- 26.
- Shakiba E, Khazaee S, Hajalyani M, Astinchap B, Fattahi A^{*}. Preparation and Characterization of Retinoic Acid Loaded Poly (ε-Caprolactone)-Poly (Ethylene glycol)-Poly (ε-Caprolactone) Micelles; an In Vitro Study. Research in Pharmaceutical Sciences. 2017; 7(1):159.
- Chahardoli A, Karimi N, Fattahi A*. Biosynthesis, Characterization, Antimicrobial and Cytotoxic Effects of Silver Nanoparticles Using Nigella arvensis Seed Extract. Iranian Journal of Pharmaceutics. 2017; 16(3): 1167.
- 29. Ebrahimi A, Sadrjavadi K, Hajialyani M, Shokoohinia Y, **Fattahi A***. Preparation and characterization of silk fibroin hydrogel as injectable implants for sustained release of Risperidone. Drug development and industrial pharmacy. 2018; 44 (2), 199-205.
- Aziz S, Sabzi M, Fattahi A, Arkan E. Electrospun silk fibroin/PAN double-layer nanofibrous membranes containing polyaniline/TiO2 nanoparticles for anionic dye removal. Journal of Polymer Research. 2017; 24 (9), 140.
- Feyzmand S, Shahbazi B, Marami M, Bahrami Gh, Fattahi A*, Shokoohinia Y. Mechanistic In vitro Evaluation of Prosopis farcta roots potential as an antidiabetic folk medicinal plant. Pharmacognosy Magazine. 2018; 13 (52), 852.
- 32. Hosseinkhani Z, Sadeghalvad M, Norooznezhad F, Khodarahmi R, Fazilati M, Mahnam A, **Fattahi A**, Mansouri K. The effect of CYP2C9* 2, CYP2C9* 3, and VKORC1-1639 G> A polymorphism in patients under warfarin therapy in city of Kermanshah. Research in Pharmaceutical Sciences. 2018; 13 (4), 377.
- Chahardoli A, Karimi N, Fattahi A*. Nigella arvensis leaf extract mediated green synthesis of silver nanoparticles: Their characteristic properties and biological efficacy. Advanced Powder Technology. 2018; 29 (1), 202-210.
- Fattahi A, Shahbazi B, Hosseinzadeh L, Mohammadi G. Optimization of Lipofectamine-2000/siRNA Lipoplex Loaded PLGA Nanoparticles for Efficient EGFR Gene Silencing: An in Vitro Study. JRPS; 2018 7 (1), 64-78.
- 35. Chahardoli A, Karimi N, Sadeghi F, Fattahi A*. Green approach for synthesis of gold nanoparticles from Nigella arvensis leaf extract and evaluation of their antibacterial, antioxidant, cytotoxicity and catalytic activities. Artificial Cells, Nanomedicine, and Biotechnology. 2018; 46(3): 579-588.
- Ahmadi E, Sadrjavadi K, Mohammadi Gh, Fattahi A*. De-esterified tragacanth microspheres loaded into Eudragit S-100 coated capsules for colon-targeted delivery. Iranian Journal of Pharmaceutical Research. 2018; 17(2): 470.
- Fattahi A*, Karimi N, Rahmati F, Shokoohinia Y, Sadrjavadi K. Preparation and physicochemical characterization of camptothecin conjugated poly amino ester–methyl ether poly ethylene glycol copolymer. RSC Advanced. 2018; 8 (23), 12951-12959.
- Alvandimanesh A, Sadrjavadi K, Akbari M, Fattahi A*. Optimization of de-esterified tragacanth microcapsules by computational fluid dynamic and the Taguchi design with the purpose of the cell encapsulation. International Journal of Biological Macromolecules. 2018; 29(1): 202-210.
- Jafari S, Derakhshankhah H, Alaei L, Fattahi A, Shiri-Varnamkhasti B, Saboury A. Mesoporous silica nanoparticles for therapeutic/diagnostic applications. Biomedicine & Pharmacotherapy. 2019; 109: 1100-1111.

- 40. Sadrjavadi K, Shahbazi B, **Fattahi A***. De-esterified tragacanth-chitosan nano-hydrogel for methotrexate delivery; optimization of the formulation by Taguchi design. Artificial Cells, Nanomedicine, and Biotechnology. (accepted)
- 41. Chahardoly A, Karimi N, **Fattahi A**, Salimikia I. Biological applications of Photosynthesized gold nanoparticles using leaf extract of Dracocephalum kotschyi. Journal of Biomedical Materials Research: Part A. (accepted)

Non-peer reviewed scientific or medical publications/materials in print or other media

Book chapter

1. Fattahi A., Varshosaz J. What are the limitations of chitosan use in non-viral gene delivery and how to overcome them? In: Wang SF, editor. Biocompatible Nanomaterials: Synthesis, Characterization, and application. NOVA publisher; 2010.

Thesis

Fattahi A. 2012. Modification of chitosan mediated gene delivery system with retinoic acid and pectin. Ph.D. Thesis, Isfahan University of Technology

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings

- 1. Alvandimanesh, Davari E, Sadrjavadi K, and **Fattahi A**. Preparation and characterization of water-soluble tragacanth microcapsules by extrusion method for encapsulation of beta pancreatic cells. CRSI, Tehran, Iran, 2014.
- 2. Jafarifar E, Nikray S, Shokoohinia P, Sadrjavadi K, Soleimani M, and **Fattahi A**. Effect of Microfluidic Chip Geometry on Morphology and Size of PLGA Microparticles. CRSI, Tehran, Iran, 2014.
- 3. Shokoohinia P, Jafari-Far E, Nikray S, Rahimi M., Mohammadi G, and Fattahi A. The Effect of Concentration of Polymer and Surfactant on the size and Size Distribution of PLGA Nano-ParticlesPrepared by Microfluidic Method. CRSI, Tehran, Iran, 2014.
- 4. Mohammadi Gh, Hemati V, Mirzaee Sh, **Fattahi A**, Adibkia Kh. In vitro and In vivo evaluation of Clarithromycin-Urea solid dispersions prepared by solvent evaporation, electrospraying and freeze drying. CRSI, Tehran, Iran, 2014.
- 5. **Fattahi A**, Fakhri S, Hosseinzadeh L, SadrJavadi K. Preparation and characterization of porous chitosan/tragacanthic acid hybrid scaffold with the freeze-gelation method. IPSC, Isfahan, Iran, 2012.
- 6. Gholamzadeh S, Behbahani M, **Fattahi A**, Sajjadi SE, Shokoohinia Y. Antiviral evaluation of coumarins from Prangos ferulacea L.(Lindl). IPSC, Isfahan, Iran, 2012.
- Fattahi A, Golozar MA, Varshosaz J, Fathi MH, Sadeghi HM. Preparation and characterization of the novel All-Trans Retinoic Acid grafted chitosan oligosaccharide micelles. 2nd Nanotoday conference, Hawaii, USA, 2011.
- 8. **Fattahi A.**, Pezzoli D., Varshosaz j., Golozar M.A., Mohammad-Sadeghi H.M., Petrini P., Tanzi M.C., Candiani G., Characterization of pectin-coated polyethyleneimine polyplexes as effective gene delivery systems. 23th ESB (European Society of Biomaterials), Tampere, Finland, 2010.
- Fattahi A., Petrini P., Munarin F., Golozar M.A., Varshosaz J., Fathi M.A., Tanzi M.C., UV Evaluation of Polyplex/Pectin Micro- and Nano-particles for Gene Therapy. 23th ESB (European Society of Biomaterials), Tampere, Finland, 2010.
- 10. Sadeghi-Aliabadi H, Ghasemi N, **Fatahi A**. Cytotoxic evaluation of Iranian mistletoe extract on a panel of cancer cells. 4th World Congress of cellular and molecular biology, Poitiers, France, October 2005.

Narrative Report