Curriculum Vitae

TAMADDON Ali-Mohammad, PharmD, PhD

Professor of Pharmaceutics and Pharmaceutical Nanotechnology,

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Education

- Research Fellowship (2005): UMR CNRS 8121, Vectorologie et Transfert de Genes, Institut Gustave Roussy, Villejuif, France (PROTHETS project title: efficiency and specificity of antisense oligodeoxynucleotide and small interfering RNA (siRNA) delivered by cationic nanovectors in Ewing sarcoma under supervision of Prof. Claude Malvy and Prof. Patrick Couvreur)
- Ph.D. (2000-2006): Department of Pharmaceutics, Shaheed-Beheshti University of Medical Sciences, School of Pharmacy, Tehran, (Ph.D. dissertation title: effect of bilayer destabilizing agents on the cytoplasmic release of antisense oligonucleotides from PEG-stabilized cationic lipid nanoparticles and their cytotoxicity on tumor cells under supervision of Prof. Hamidreza Moghimi and Prof. Farshad Hosseini Shirazi)
- Pharm.D. (1994-2000): School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, Isfahan (Pharm.D. thesis under supervision of Prof. Amirhooshang Zargarzadeh)
- Diploma in experimental sciences (1994): Shahid-Ejei high school, National Organization for Development of Exceptional Talents (NODET, SAMPAD in Persian), Isfahan, Iran.

Research profile and interests:

Scopus: H-index = 24, number of publications = 117, number of citations = 1994

Scholar: H-index = 27, number of publications = 153, number of citations = 2417

- Bioengineering materials for drug delivery, imaging, and tissue regeneration
- Polymer synthesis and characterization including hyperbranched polymers, polymeric micelles, and hydrogels
- Synthesis and characterization of nanomaterials including quantum dots, graphene oxide, metal and metal oxide nanoparticles, mesoporous, metal-organic frame works, supramolecular nanoscale systems
- Bioconjugation chemistry including protein PEGylation, antibody and carbohydrate conjugation
- Gene delivery with lipid nanoparticles
- Tissue regeneration using stem cells, exosomes, and microgels

Technical skills:

- Atomic force microscopy (AFM supervisor)
- Dynamic light scattering (DLS-zeta potential supervisor)
- Microscopy and spectroscopy methods
- Cell culture and bioassays (supervisor)
- Flow cytometry
- High performance liquid chromatography (HPLC) including size exclusion chromatography (SEC) and ion exchange chromatography (IEC)
- Pharmacometrics, design and analysis of experiments
- Individual pharmacokinetics
- Small animal bioluminescent imaging (supervisor)

Teaching expertise

- Microscopy and analysis of nanomaterials, Pharmaceutical Nanotechnology Ph.D. Program
- Nanomaterials for drug delivery, Pharmaceutical Nanotechnology Ph.D. Program
- Polymer science and engineering, Pharmaceutical Nanotechnology Ph.D. Program
- Pharmacokinetics, Pharmaceutics and Pharmaceutical Nanotechnology Ph.D. Programs
- Nanobiotechnology, Medical Biotechnology M.Sc. and Ph.D. Programs

- Pharmaceutical statistics and software, Pharmaceutics and Pharmaceutical Nanotechnology Ph.D. Programs
- Novel drug Delivery Systems, Pharmaceutics Ph.D. Program
- Powder technology, Industrial pharmacy, Pharmaceutics Ph.D. Program
- Diffusion, Dissolution, and Drug Release, Physical Pharmacy, Pharmaceutics Ph.D. Program
- Nanotechnology for pharmacy students, Pharm.D. Program
- Pharmaceutics V (Novel Drug Delivery Systems), Pharm.D. Program
- Biopharmaceutics and Pharmacokinetics, Pharm.D. Program
- Physical Pharmacy, Pharm.D. Program
- Community Pharmacy Practice, Pharm.D. Program
- Industrial Pharmacy Practice, Pharm.D. Program

Lectured workshops:

- Cell-based bioassays (2016, 2018, 2020)
- FlowJo software (2015, 2019, 2022)
- Lab safety and good laboratory practice (2016, 2018)
- Cellular characterization of nanomaterials (2015)
- Introduction to nanomedicine, Spring Nano School, Shiraz University (2015)
- Cellular aspects of nanomaterials, Asian Nano Forum (2015)
- BioAFM imaging (2013, 2014)
- Experimental data analysis using Graphpad Prism software (2013)
- Experimental design: methodologies and applications in drug development, Controlled Release Society Biennial Meeting, Zanjan University of Medical Sciences (2010)
- Research methodology in pharmaceutical sciences (2009)
- Endnote software (2008)
- Getting familiar with granting organizations (2008)
- Cell culture and cytotoxicity assays (2005)

Awards and distinctions:

- Acclaimed Researcher, Deputy of Research and Technology, Shiraz University of Medical Sciences (2021)
- Distinguished Faculty Member (top University Scientists), Deputy of Research and Technology,
- Shiraz University of Medical Sciences (2014, 2018, 2022)

- Invited Guest, Clinical Nanomedicine (CLINAM) Conference, European Society for Nanomedicine (ESNAM), 2014
- Distinguished Faculty Member (School of Pharmacy), Deputy of Education, Shiraz University of
- Medical Sciences (2011)
- National Young Scientist Award, Ministry of Health and Medical Education (2008)
- Ranked 1st Top in Comprehensive Pharmaceutics Board Exam, Shaheed-Beheshti Medical
- University (2002)
- Awarded Scholarship for Accomplishment of Ph.D. on Pharmaceutics, Ministry of Health and
- Medical Education (2000)

Professional memberships:

- Industrial Pharmacy Committee, Ministry of health and Medical Education (2023)
- National Board of Pharmaceutics, Ministry of health and Medical Education (2018 - 2022)
- National Board of Pharmaceutical Nanotechnology, Ministry of health and Medical
- Education (2013 - 2018)
- Editorial board, JAMSAT (2015 -)
- Editorial board, Trends in Pharmaceutical Sciences, Faculty of Pharmacy (2014 -)
- Council of Pharmaceutical Technology Incubator and Board of Trustees of the University Clean Rooms, Shiraz University of Medical Sciences (2013 -)
- Strategic Council of Nanotechnology Network, Ministry of Health and Medical Education (2013 - 2014)
- Iranian Association of Biopharmaceutics and Pharmacokinetics
- Iranian Association of Pharmaceutical Scientist
- Iranian Controlled Release Society (2006 -)
- Iran Medical Council (2000 -)

Academic appointments /administrative activities:

- Academic authority and mission in the field of pharmaceutical nanotechnology, Shiraz
- University of Medical Sciences (2021 -)
- Chairman of the board, Nanofarsan Pharm Tech Dev knowledge-based company, Pharmaceutical Technology Incubator, Shiraz University of Medical Sciences (2015 -)
- Director, Research Center for Nanotechnology in Drug Delivery, Shiraz University of Medical Sciences (2014 -)

- Academic member (2nd affiliation), Pharmaceutical Nanotechnology, Shiraz School of Pharmacy (2011 -)
- Director, Nanotechnology Characterization Lab, Shiraz University of Medical Sciences (2010 -)
- Academic member (1st affiliation), Department of Pharmaceutics, Shiraz School of Pharmacy (2006 -)
- Head of department, Pharmaceutical Nanotechnology, Shiraz University of Medical Sciences (2011 - 2022)
- Deputy Head of Education, Shiraz School of Pharmacy (2017 – 2018)
- Deputy Head of Graduate Education, Shiraz School of Pharmacy (2014 – 2017)
- Academic member, Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences
- Academic member, Department of Pharmaceutical Biotechnology, Shiraz School of Pharmacy (2008)

Publications:

- Tamaddon, A.M., et al., Indirect co-culture of islet cells in 3D biocompatible collagen/laminin scaffold with angiomiRs transfected mesenchymal stem cells. Cell Biochemistry and Function, 2023.
- Monajati, M., et al., L-asparaginase immobilization in supramolecular nanogels of PEG-grafted poly HPMA and bis (α-cyclodextrin) to enhance pharmacokinetics and lower enzyme antigenicity. Colloids and Surfaces B: Biointerfaces, 2023. 225: p. 113234.
- Monajati, M., et al., Enhanced L-asparaginase stability through immobilization in supramolecular nanogels of PEG-grafted poly HPMA with bis (α-cyclodextrin). Biochemical Engineering Journal, 2023. 191: p. 108802.
- Alimardani, V., et al., In-situ nanomicelle forming microneedles of poly NIPAAm-b-poly glutamic acid for trans-scleral delivery of dexamethasone. Journal of Industrial and Engineering Chemistry, 2023. 119: p. 485-498.
- Zareshahrabadi, Z., et al., Magnetic chitosan nanoparticles loaded with Amphotericin B: Synthesis, properties and potentiation of antifungal activity against common human pathogenic fungal strains. International Journal of Biological Macromolecules, 2022. 222: p. 1619-1631.
- Toghiani, R., et al., Bioengineering exosomes for treatment of organ ischemia/reperfusion injury. Life Sciences, 2022: p. 120654.

- Taheri, A., et al., Complexation of cress seed mucilage and β-lactoglobulin; optimization through response surface methodology and adaptive neuro-fuzzy inference system (ANFIS). Chemometrics and Intelligent Laboratory Systems, 2022. 228: p. 104615.
- Shafiee, M., et al., Taguchi design optimization of curcumin loading in mesoporous silica nanoparticles with variable particle and pore sizes. Trends in Pharmaceutical Sciences, 2022. 8(3): p. 155-164.
- Sarvestani, F.S., et al., Construction and Transfer of PEI-miRNA-126/210 Polyplex into Human Umbilical Vein Endothelial Cells with Investigation of Its Effect on Islets Survival and Function. Pharmaceutical Sciences, 2022. 29(1): p. 90-99.
- Rahiminezhad, Z., et al., PLGA-graphene quantum dot nanocomposites targeted against αvβ3 integrin receptor for sorafenib delivery in angiogenesis. Biomaterials Advances, 2022. 137: p. 212851.
- Najafi, H., et al., Integrin Receptor-Binding Nanofibrous Peptide Hydrogel for Combined Mesenchymal Stem Cell Therapy and Nitric Oxide Delivery in Renal Ischemia/Reperfusion Injury. 2022.
- Montaseri, Z., et al., Composite silk fibroin hydrogel scaffolds for cartilage tissue regeneration. Journal of Drug Delivery Science and Technology, 2022: p. 104018.
- Monajati, M., et al., Novel self-assembled nanogels of PEG-grafted poly HPMA with bis (α-cyclodextrin) containing disulfide linkage: synthesis, bio-disintegration, and in vivo biocompatibility. New Journal of Chemistry, 2022. 46(20): p. 9931-9943.
- Khosravi, F., et al., A novel method for the chaperone aided and efficient production of human proinsulin in the prokaryotic system. Journal of Biotechnology, 2022. 346: p. 35-46.
- Kheirkhah, S., et al., Surface engineered palmitoyl-mesoporous silica nanoparticles with supported lipid bilayer coatings for high-capacity loading and prolonged release of dexamethasone: A factorial design approach. Journal of Drug Delivery Science and Technology, 2022. 78: p. 103943.
- Javanmardi, S., et al., PEGylated nanohydrogels delivering anti-MicroRNA-21 suppress ovarian tumor-associated angiogenesis in Matrigel and chicken chorioallantoic membrane models. Bioimpacts, 2022. 12(5): p. 449-461.
- Jafari, M., et al., Amphiphilic hyperbranched polyglycerol nanoarchitectures for Amphotericin B delivery in Candida infections. Biomaterials Advances, 2022. 139: p. 212996.
- Dolatabadi, H.T., M. Izadi, and A.M. Tamaddon, Evaluation of penicillin residues in milk by ELISA using aptamer bonded to gold nanoparticles. Gold Bulletin, 2022. 55(2): p. 187-193.

- Dahri, M., et al., Nanoscale aggregation of doxorubicin-short peptide conjugates for enzyme-responsive delivery with various MOF carriers: In-silico steps towards smart cancer chemotherapy. Computers in Biology and Medicine, 2022. 144: p. 105386.
- Behzadnia, M., et al., Sorafenib tosylate incorporation into mesoporous starch xerogel for in-situ micronization and oral bioavailability enhancement. Drug Development and Industrial Pharmacy, 2022. 48(8): p. 343-354.
- Alimardani, V., et al., Comparative Study on Bio/Micro and Nanoencapsulation Technologies Applications in the Food Industry, in Recent Advances in Food Biotechnology. 2022, Springer Nature Singapore. p. 303-330.
- Abolmaali, S.S., et al., Biotin receptor-targeting nanogels loaded with methotrexate for enhanced antitumor efficacy in triple-negative breast cancer in vitro and in vivo models. International Journal of Pharmaceutics, 2022. 624: p. 122049.
- Abolmaali, S.S., et al., Nanotechnology-based approaches against COVID-19, in Emerging Nanomaterials and Nano-Based Drug Delivery Approaches to Combat Antimicrobial Resistance. 2022, Elsevier. p. 305-364.
- Taheri, A., et al., Comparison of binary cress seed mucilage (CSM)/β-lactoglobulin (BLG) and ternary CSG-BLG-Ca (calcium) complexes as emulsifiers: Interfacial behavior and freeze-thawing stability. Carbohydrate Polymers, 2021. 266: p. 118148.
- Taheri, A., et al., Vitamin D3 cress seed mucilage-β-lactoglobulin nanocomplexes: Synthesis, characterization, encapsulation and simulated intestinal fluid in vitro release. Carbohydrate Polymers, 2021. 256: p. 117420.
- Shiri, A., et al., The inflammatory and fibrotic patterns of hepatic stellate cells following coagulation factors (VII or X)-shielded adenovirus infection. Current Microbiology, 2021. 78: p. 718-726.
- Shafiee, M., et al., Synthesis of Pore-Size-Tunable Mesoporous Silica Nanoparticles by Simultaneous Sol-Gel and Radical Polymerization to Enhance Silibinin Dissolution. Iranian Journal of Medical Sciences, 2021. 46(6): p. 475.
- Sarvestani, F.S., et al., microRNAs in liver and kidney ischemia reperfusion injury: Insight to improve transplantation outcome. Biomedicine & Pharmacotherapy, 2021. 133: p. 110944.
- Salmanpour, M., et al., Sterically stabilized polyionic complex nanogels of chitosan lysate and PEG-b-polyglutamic acid copolymer for the delivery of irinotecan active metabolite (SN-38). Current Drug Delivery, 2021. 18(6): p. 741-752.

- Oliyaei, N., et al., Antidiabetic effect of fucoxanthin extracted from Sargassum angustifolium on streptozotocin-nicotinamide-induced type 2 diabetic mice. Food Science & Nutrition, 2021. 9(7): p. 3521-3529.
- Najafi, H., et al., Structural, mechanical, and biological characterization of hierarchical nanofibrous Fmoc-phenylalanine-valine hydrogels for 3D culture of differentiated and mesenchymal stem cells. Soft Matter, 2021. 17(1): p. 57-67.
- Najafi, H., et al., Nitric oxide releasing nanofibrous Fmoc-dipeptide hydrogels for amelioration of renal ischemia/reperfusion injury. Journal of Controlled Release, 2021. 337: p. 1-13.
- Naghizadeh, M., M.A. Taher, and A.-M. Tamaddon, Application of CoFe2O4@SiO2@ Chitosan Nanoparticles for Cadmium (II) Preconcentration in Totally Different Samples and its Determination through ETAAS. Silicon, 2021. 13: p. 3795-3806.
- Monajati, M., S.S. Abolmaali, and A. Tamaddon, 2020 FDA/EMA approvals for new immunotherapy drug technologies and applications. Trends in Pharmaceutical Sciences, 2021. 7(2): p. 81-92.
- Jafari, M., et al., Nanotechnology approaches for delivery and targeting of Amphotericin B in fungal and parasitic diseases. Nanomedicine, 2021. 16(10): p. 857-877.
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- Ghojoghi, R., et al., The role of coagulation factors VII, VIII, and IX on the tropism and inflammatory effect of Adenovector on liver and breast cell lines. 2021.
- Farahavar, G., et al., Single-chain antibody-decorated Au nanocages@ liposomal layer nanoprobes for targeted SERS imaging and remote-controlled photothermal therapy of melanoma cancer cells. Materials Science and Engineering: C, 2021. 124: p. 112086.
- Esmaeilpour, D., et al., Comparative chemical examination of inclusion complexes formed with β-cyclodextrin derivatives and basic amino acids. Carbohydrate Polymers, 2021. 262: p. 117868.
- Borandeh, S., et al., Steric stabilization of β-cyclodextrin functionalized graphene oxide by host-guest chemistry: A versatile supramolecule for dual-stimuli responsive cellular delivery of doxorubicin. Journal of Drug Delivery Science and Technology, 2021. 63: p. 102536.
- Ardakani, L.S., et al., Green synthesis of iron-based nanoparticles using Chlorophytum comosum leaf extract: methyl orange dye degradation and antimicrobial properties. Heliyon, 2021. 7(2): p. e06159.
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- Abedi, M., et al., Hierarchical mesoporous zinc-imidazole dicarboxylic acid MOFs: Surfactant-directed synthesis, pH-responsive degradation, and drug delivery. International Journal of Pharmaceutics, 2021. 602: p. 120685.
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- Taheri, M., et al., Modulation of Methotrexate Release from Nano-Hydrogels via Drug-Transition Metal Complexation. Trends in Pharmaceutical Sciences, 2020. 6(3): p. 143-152.
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- Shojaei, L., et al., 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): p. 163-174.
- Shafiee, M., et al., 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: p. 100298.
- Salmanpour, M., et al., Hydrolytic stabilization of irinotecan active metabolite (SN38) against physiologic pH through self-assembly of conjugated poly (2-oxazoline)-poly (L-amino acid) block copolymer: A-synthesis and physicochemical characterization. Journal of Drug Delivery Science and Technology, 2020. 60: p. 101933.
- Rahiminezhad, Z., et al., Janus nanoparticles: new generation of multifunctional nanocarriers in drug delivery, bioimaging and theranostics. Applied Materials Today, 2020. 18: p. 100513.
- Oliyaei, N., et al., Double encapsulation of fucoxanthin using porous starch through sequential coating modification with maltodextrin and gum Arabic. Food Science & Nutrition, 2020. 8(2): p. 1226-1236.
- Oliyaei, N., et al., Encapsulation of fucoxanthin in binary matrices of porous starch and halloysite. Food Hydrocolloids, 2020. 100: p. 105458.

- Mohammad Tamaddon, A., et al., Histologic evaluation of new doxycycline gel formulation for subgingival application in experimental periodontitis in rats. International Journal of Scientific Research in Dental and Medical Sciences, 2020. 2(4): p. 107-114.
- Karimi, F., et al., Carbon nanotubes for amplification of electrochemical signal in drug and food analysis; a mini review. Current Biochemical Engineering, 2020. 6(2): p. 114-119.
- Javanmardi, S., et al., 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): p. 69-82.
- Jafari, M., et al., Hyperbranched polyglycerol nanostructures for anti-biofouling, multifunctional drug delivery, bioimaging and theranostic applications. International journal of pharmaceutics, 2020. 576: p. 118959.
- Hosseini, S.A.A., A. Tamadon, and M. Zamanian, Vibrations Analysis of a Rotor Supported by Tilting-Pad Journal Bearings with Considering of Geometric Nonlinearity. Amirkabir Journal of Mechanical Engineering, 2020. 52(1): p. 141-154.
- Ghahestani, S.F., et al., The superior role of coagulation factor FX over FVII in adenoviral-mediated innate immune induction of the hepatocyte: an in vitro experiment. Clinical and Experimental Hepatology, 2020. 6(3): p. 199-206.
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- Chavoshy, F., et al., Delivery and anti-psoriatic effect of silibinin-loaded polymeric micelles: An experimental study in the psoriatic skin model. Current Drug Delivery, 2020. 17(9): p. 787-798.
- Alizadeh, M., et al., A DNA based biosensor amplified with ZIF-8/ionic liquid composite for determination of mitoxantrone anticancer drug: an experimental/docking investigation. Frontiers in Chemistry, 2020. 8: p. 814.
- Alizadeh, M., et al., Evaluation of Pt, Pd-doped, NiO-decorated, single-wall carbon nanotube-ionic liquid carbon paste chemically modified electrode: an ultrasensitive anticancer drug sensor for the determination of daunorubicin in the presence of tamoxifen. Frontiers in Chemistry, 2020. 8: p. 677.
- Abedi, M., et al., 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: p. 2617-2631.

- Abedanzadeh, S., et al., Potent cyclometallated Pd (II) antitumor complexes bearing α-amino acids: synthesis, structural characterization, DNA/BSA binding, cytotoxicity, and molecular dynamics simulation. Dalton Transactions, 2020. 49(42): p. 14891-14907.
- Abedanzadeh, M., et al., Curcumin loaded polymeric micelles of variable hydrophobic lengths by RAFT polymerization: Preparation and in-vitro characterization. Journal of Drug Delivery Science and Technology, 2020. 58: p. 101793.
- Salmanpour, M., et al., Nanoparticulate delivery of irinotecan active metabolite (SN38) in murine colorectal carcinoma through conjugation to poly (2-ethyl 2-oxazoline)-b-poly (L-glutamic acid) double hydrophilic copolymer. European Journal of Pharmaceutical Sciences, 2019. 136: p. 104941.
- Oliyaei, N., et al., Preparation and characterization of porous starch reinforced with halloysite nanotube by solvent exchange method. International journal of biological macromolecules, 2019. 123: p. 682-690.
- Naghizadeh, M., et al., 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: p. 100250.
- Naghizadeh, M., et al., Environmental Nanotechnology. Monitoring & Management, 2019. 12: p. 100250.
- Naghizadeh, M., M.A. Taher, and A.-M. Tamaddon, Facile synthesis and characterization of magnetic nanocomposite ZnO/CoFe2O4 hetero-structure for rapid photocatalytic degradation of imidacloprid. Heliyon, 2019. 5(11): p. e02870.
- Mostoufi, H., et al., Reversing multi-drug tumor resistance to Paclitaxel by well-defined pH-sensitive amphiphilic polypeptide block copolymers via induction of lysosomal membrane permeabilization. Colloids and Surfaces B: Biointerfaces, 2019. 174: p. 17-27.
- Monajati, M., et al., 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): p. 11564-11574.
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- Vakilinezhad, M.A., et al., Preparation and characterization of Nicotinamide-loaded lipid nanoparticles as a brain drug delivery system for Alzheimer's disease. 2018.
- Tamaddon, A.-M., Nanoencapsulation of limonene in amylose structure with Thermo-mechanical (Ultrasound) stress. 2018.
- Ravanfar, R., et al., Extraction and fractionation of anthocyanins from red cabbage: ultrasonic-assisted extraction and conventional percolation method. Journal of Food Measurement and Characterization, 2018. 12: p. 2271-2277.
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- Pilot-plant production of PEG-asparaginase, National Institute for Medical Research Development (NIMAD)
- Development of PEG - polypeptide micellar nanoparticle parenteral preparation containing cisplatin for delivery in colorectal cancers (Health Technology Development office, Ministry of Health and Medical Education)

Thesis Supervision:

- Antibody-toxin conjugated using a hydrophilic polymer linker (Amirsaman Fattahi, Ph.D. supervisor)
- Cyclodextrin-functionalized metalographene oxide for combined SERS imaging and targeted therapy (Fahameh Mahmoodi, Ph.D. supervisor)

- mRNA-encapsulated lipid nanoparticles for macrophage polarization (Elaheh Haghighi, Ph.D. advisor)
- Hyaluronic hydrogel microneedles for diabetic wound healing (Mahnoosh Mohammadi, Pharm.D. supervisor)
- Microfluidics-assisted synthesis of microgels for cell therapy and wound healing (Mojgan Abedanzadeh, Ph.D. co-supervisor)
- Hyaluronic acid-functionalized nanoemulsions in liver inflammations (Fatemeh Senobari, Pharm.D. Supervisor)
- Pluronic-polyester polymer micelles for delivery of cisplatin (Samira Amini, Ph.D. co-supervisor)
- Hybrid exosomes for delivery of mitochondria-specific peptide in renal ischemia-reperfusion injury (Reyhaneh Toghyani, Ph.D., supervisor)
- Cell membrane-cloaked quantum dots for homo and heterotypic targeting in a biomimetic substrate (Zohreh Montaseri, Ph.D. supervisor)
- TiO2-molecular imprinted hydrogels for delivery of chemotherapeutic agent in melanoma (Leila Moradi, Ph.D. co-supervisor)
- Delivery of corticosteroids by PEG-oligopeptide micelle forming microneedles in uveitis (Vahid Alimardani, Ph.D. advisor, 2023)
- Preparation of in-situ forming hydrogel scaffold containing angiomiRs and evaluation of its function on survival and function of mouse islet cells (Fatemeh Sabet Sarvestani, Ph.D. co-supervisor, 2023)
- Simvastatin loaded magnetoliposome for treatment of intimal hyperplasia (Zahra Salmanpour, Pharm.D. advisor, 2023)
- Long circulating RBC membrane-camouflaged silibinin-loaded mesoporous silica nanocomposites for treatment of liver inflammations (Vahid Tayebi, Pharm.D. advisor, 2022)
- Molecular docking of streptokinase fused with fibrin-binding peptide for targeted drug delivery to blood clot (Soroush Hajizadeh, Pharm.D. co-supervisor, 2022)
- Lung surfactant-mediated delivery of GHK-Cu peptide in lung fibrosis (Mohammad Hadidi, Pharm.D. co-supervisor, 2022)

- Anti-MUC18 scFv functionalized gold nanocages for targeted delivery of apoptotic peptide in prostate cancer (Ghazal Farahavar, Ph.D. co-supervisor, 2022)
- Targeted delivery of sorafenib by graphene QD tag-PLGA nanocomposites to angiogenic vessels (Zahra Rahiminejad, Ph.D. supervisor: 2022)
- Fréchet-type HPG dendrimers for delivery of amphotericin B in candidiasis (Mahboubeh Jafari, Ph.D. supervisor, 2022)
- Design and synthesis of functionalized Au nanocages for delivery of 5-FU in skin tumors (Sepideh Salehi, Pharm.D. co-supervisor, 2022)
- Core-shell nanoparticles of MSN@black TiO2 functionalized with PNIPAAm-PVP for stimuli-responsive drug delivery (Fatemeh Hasani, Pharm.D. supervisor, 2022)
- Mesoporous silica nanoparticles functionalized with RAFT polymerized PNIPAAm-PVP for stimuli-responsive drug delivery (Fatemeh Zare, Pharm.D. co-supervisor, 2022)
- Fe3O4-amidoamine modified GO nanosheets for stimuli-responsive delivery of doxorubicin (72- Amirreza Sarikhani, pharm.D. supervisor, 2022)
- Evaluations of the cytotoxicity and genotoxicity of L-amino acid reduced graphene oxide in mesenchymal stem cells (Rahman Bashiri, Pharm.D. supervisor, 2021)
- Synthesis and cellular characterization of graphene QD and β-CD functionalized branched PEI for simultaneous delivery of antimir-21 and cellular imaging (Mana Heidari, Pharm.D. supervisor, 2021)
- Hierarchical synthesis of magnetic mesoporous metal-organic frameworks and silica nanoparticles for delivery of platinum II compounds in breast cancer (Mehdi Abedi, Ph.D. supervisor, 2021)
- Synthesis of aromatic dipeptide hydrogels for combined delivery of nitric oxide donor and mesenchymal stem cell in ischemic renal disease (Haniyeh Najafi, Ph.D. supervisor, 2020)
- Preparation and in-vivo characterization of mesoporous starch for oral delivery of genistein (Marjan Soleimanpour, Ph.D. co-supervisor, 2020)
- Synthesis of Poly HPMA-PEG based nanogels for delivery of L-asparaginase in vivo (Maryam Monajati, Ph.D. co-supervisor, 2020)
- Preparation and characterization of temperature-sensitive microneedles of PNIPAAm-PEG-chitosan containing liraglutide (Narsis Pouralifard, Pharm.D. supervisor, 2020)

- Preparation and characterization of magnetic nanocomposites as green adsorbents for concentrating metal ions (Matin Naghizadeh, Ph.D. advisor, 2020)
- Preparation and cellular characterization of anti-EGFR targeted, multi-arm PEG conjugate of L-asparaginase (Fatemeh Kazemian, Pharm.D. supervisor, 2020)
- Synthesis of multi-arm PEG conjugates of irinotecan and SN38 (Maryam Kazemikia, Pharm.D. supervisor, 2020)
- Preparation and cellular characterization of multi-arm PEG conjugate of L-asparaginase and α-cyclodextrin for codelivery of methotrexate (Roya Jamali, Pharm.D. supervisor, 2020)
- Preparation and in-vivo characterization of short aromatic peptide hydrogels containing simvastatin in diabetic wound healing (Elnaz Janipour, Pharm.D. supervisor, 2020)
- Preparation and characterization of ricobendazole-loaded chitosan-PLGA nanoparticles for treatment of hydatid cyst (Mahdi Darvishi, Ph.D. advisor, 2020)
- Porous starch reinforced with halloysite for delivery of fucoxanthin (Nadjme Olyaei, Ph.D. advisor, 2019)
- Fatty acid conjugation, loading and release of dexamethasone from phospholipid stabilized mesoporous silica nanoparticles (Sara Kheirkhah, Pharm.D. supervisor, 2019)
- Synthesis of poly 2-oxazoline nanogels for cellular delivery of antagomiR-21 in cisplatin-resistant ovary tumor cells (Sanaz Javanmardi, Ph.D. co-supervisor, 2019)
- Development of a diagnostic tool based on scFv-functionalized gold nanoparticles for colorimetric detection of a cancer biomarker in patient urine samples (Nooraldeen Faraji, Ph.D. co-supervisor, 2019)
- Synthesis of polypeptide block copolymeric micelles for cellular delivery of paclitaxel (Hassan Mostofi, Ph.D. co-supervisor, 2018)
- Preparation and characterization of micellar polymeric conjugate nanoparticles of PEOx-b-PGlu and SN-38 in experimental model of colorectal cancer (Mohsen Salmanpour, Ph.D. supervisor, 2017)
- Preparation and characterization of polyionic complex micelles of mPEG-poly γ benzyl L-glutamic acid and LMW chitosan for delivery of SN-38 (Mahvand Saeedvaghefi, Pharm.D. supervisor, 2017)

- Development of silibinin containing polymer micelles and in-vivo transdermal investigation in psoriatic model in rat (Fatemeh Chavoshi, Pharm.D. co-supervisor, 2017)
- Synthesis and characterization of carboxylated poly (mPEG-methacrylate-co-2-isopropylene 2-oxazoline) for delivery of cisplatin (Zahra Hosseini Rezaei, Pharm.D. co-supervisor, 2017)
- Synthesis of poly L-histidine-b-Poly HPMA polymer micelles for cellular delivery of paclitaxel (Sahar Abbasi, Ph.D. co-supervisor, 2017)
- Preparation and characterization of proniosomal formulations for oral delivery of genistein (Razieh Nemati, M.Sc. co-supervisor, 2017)
- Synthesis and cellular characterization of cisplatin-loaded, carboxylic acid-functionalized poly ethyleneimine Stealth nanogels (Ladan Ghahramani, Pharm.D. co-supervisor, 2016)
- Doxycycline in-situ gel formulation for subgingival application in experimental periodontitis in rats (Faezeh Saadati, D.D.S. co-supervisor, 2016)
- Mesoporous starch for oral delivery of sorafenib tosylate (Mehrnoosh Behzadnia, Pharm.D. supervisor, 2015)
- Colon-targeted delivery of anis oil and phase 3 clinical trial in IBS Patients (Maryam Mosaffa, Ph.D. supervisor, 2015)
- HER-2 targeted, Anti-VEGF SiRNA loaded dendrosomes (Nasim Golkar, Ph.D. supervisor, 2015)
- Biological and immunological characterization of PEGylated L-Asparaginase (Asal Samadnejad, Pharm.D. supervisor, 2015)
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- Preparation and characterization of Ag NPs loaded collagen film for periodontal infections (Mohammadzadeh, D.D.S co-supervisor, 2014)
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- PLGA nanoparticles for parenteral controlled release formulation of growth hormone (Behzad Taghipour, Ph.D. advisor, 2014)
- Imidazolyl mesoporous silica nanoparticles for transfection of GFP plasmid (Mahdokht Mahmoudi, M.Sc. co-supervisor, 2014)
- Preparation, physicochemical and biological characterization of mono-PEGylated G-CSF (Fatemeh Hasanshhi, Pharm.D. co-supervisor, 2014)
- Hydrogel nanoparticles of mPEG-g-(PEI-His) for delivery of methotrexate in experimental model of rheumatoid arthritis (SamiraSadat Abolmaali, Ph.D. supervisor, 2014)
- Polyamidoamine dendronized magnetic nanoparticles for delivery of methotrexate (Ali Salah, Pharm.D. supervisor, 2013)
- Development of a new pulp capping material in comparison with mineral trioxide aggregate in rat molar (Yasmin Ghahramani, dentistry specialty co-supervisor, 2013)
- Liposomal vaccine containing PMV and MPL for cutaneous leishmaniasis by dehydration-rehydration method (Afshin Samiei, Ph.D. advisor, 2013)
- Preparation and cellular characterization of micellar polymeric nanoparticles of PEG-g-(mPEI-His) and GFP plasmid (Haniyeh Najafi, Pharm.D. supervisor, 2013)
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- PEGylation of PAMAM dendrimers for solubilization of sorafenib and delivery to hepatocellular carcinoma in-vitro (Fatemeh Hashemi, Pharm.D. supervisor, 2012)
- Synthesis and characterization of PLGA-mPEG copolymers and preparation of micellar nanoparticles for delivery of docetaxel (Elaheh Parhizkar, Pharm.D. co-supervisor, 2012)
- Pharmacokinetics of high-dose methotrexate in acute lymphoblastic lymphoma patients for determination of leucovorin rescue termination (Lida Shojaei, Pharm.D. co-supervisor, 2012)
- In-vivo bioluminescence imaging of PEGylated human serum albumin in carrageen induced inflammation (Mehdi Hourang, Pharm.D. supervisor, 2012)
- Synthesis of mPEG-functionalized magnetite nanoparticles for delivery of methotrexate (Elham Cheraghipour, M.Sc. co-supervisor, 2012)
- DUE and determination of plasma level of vancomycin in ICU of Namazi Hospital (Elaheh Omidvari, Pharm.D. co-supervisor, 2012)
- Ultrasonic extraction of bioactive compounds from red cabbage and microencapsulation in solid lipid nanoparticles for application in food and pharmaceutical industry (Raheleh Ravanfar, M.Sc. co-supervisor, 2011)
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- Fabrication of paromomycin loaded solid lipid nanoparticles by precipitation from microemulsion (Tayebeh Khaliji, Pharm.D. co-supervisor, 2010)
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Book Chapters:

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