

**Dr Maryam Hashemi**

**Assistant Professor of Pharmaceutical Biotechnology**

**Research Center, School of Pharmacy, Mashhad University of Medical Sciences, Address:  
Mashhad, Iran**

**Tel:05137112470**

**Fax:05137112470**

دارید اسکریپت جاوا به نیاز شما دیدن برای .شود می حفاظت spambots توسط ایمیل آدرس  
دارید اسکریپت جاوا به نیاز شما دیدن برای .شود می حفاظت spambots توسط ایمیل آدرس

**Updated at: 6/28/2016**

**Educational Background** und

Pharm.D Thesis: (1999)

Standardization of Topical Preparations (gel, cream, ointment) from Aloes (Dried latex of Aloe).

Supervisor: Dr Noaman Khalili

Mashhad University of Medical Sciences, School of Pharmacy

PhD Thesis: (2005-2010)

Study of transfection efficiency of nanoparticles of polyethyleneimine (PEI) coated with peptide containing Histidine-Lysine rich sequence as non-viral vectors used in gene therapy.

Supervisor: Dr Mohammad Ramezani

Mashhad University of Medical Sciences, Bu-Ali Research Institute, Biotechnology Center

The project in six month research study: (2009)

The effect of targeting of PAMAM dendrimer with GE-11 and B6 peptides on gene delivery

Supervisor: Dr Manfred Ogris

Pharmacy, Department of Pharmacy, Munich, Ludwig-Maximilians-University of Munich, Germany

### Research Interests

Development of polymer based nanoparticles (non-viral vectors) for plasmid

DNA and siRNA transfer

Formulation of drug, allergen and active natural products based nanoparticles and nanofibers.

Stem cell encapsulation, Stem cell therapy

### Publications

1. **Hashemi M\***, Hafezi Ghahestani Z, Alebooye Langroodi F, Mokhtarzadeh A, Ramezani M, et al. Nanoparticles containing crocetin. *Artif Cells Nanomed Biotechnol.* 2016; 21:1-6 (IF: 2.024).
2. **Hashemi M** Mokhtarzadeh A, Alibakhshi A, Yaghoobi H, et al. PEGylated PLGA nanoparticles as gene carriers. *Expert Opin Biol Ther.* 2016; 16(6):771-85 (IF:3.43).
3. **Maryam Hashemi** Faezeh Moghadam Ariaee, et al. Alkyl crosslinked polypropyleneimine dendrimers as efficient gene delivery vectors. *Iranian Journal of Basic Medical Sciences* (IF: 1.228). In Press.
4. **Maryam Hashemi** Nima Hamzian, et al. Toxicity evaluation of (SPION-PLGA) ±PEG nanoparticles loaded with Gemcitabine as a therapeutic and diagnostic applications. *Iranian Journal of Pharmaceutical Research* (IF: 1.065). In Press.
5. **Maryam Hashemi** Hamideh Parhiz; Soroush Milanizadeh; Sara Amel Farzad; Khalil et al. Gene Delivery Efficiency and Cytotoxicity of Heterocyclic Amine-modified PAMAM and PPI Dendrimers. *Mater Sci Eng C Mater Biol Appl.* 2016; 61:791-800 (IF: 3.42)
6. **Hashemi M\***, Alebooye Langroodi, Zohreh Hafezi Ghahestani, Mona Alibolandi, Mahboubeh Ebrahimian, et al. In vitro antitumor activity of doxorubicin encapsulated in PLGA nanoparticles. *Nanomed. J.*, 2016; 3(1): 23-34.
7. **Maryam Hashemi**, Ahad Mokhtarzadeh, Hamideh Parhiz, et al. P53-Derived peptides for producing versatile and highly efficient targeted gene delivery carriers into cancer cells. *Expert Opin Drug Deliv.* 2016; 8:1-15 (IF: 5.434).
8. **Hashemi M**, et al. Encapsulation technology in stem cell delivery. *Life Sciences.* 2015; 143: 139-146 (IF: 2.685).
9. **Hashemi M**, et al. PEGylation of Polypropyleneimine Dendrimer to Improve DNA Delivery and Cytotoxicity. *Appl Biochem Biotechnol.* 2015 Sep;

- 177(1):1-17 (IF: 1.606).
- Ramezani M. Single-walled carbon nanotubes **Hashemi M** Mohammadi M, Salmasi Z, .10  
 Piperazine-polyethylenimine derivative for targeted siRNA delivery into breast cancer  
 cells. Int J Pharm. 2015 May 15; 485(1-2):50-60 (IF: 3.99).
- Hashemi M, Mahdipour E, Parhiz H, Abnous K, Ramezani M. Heterocyclic amine-modified .11  
 carriers for transfection of mammalian cells. Eur J Pharm Biopharm. 2015; 96:76-88 (IF:  
 3.97).
- Hashemi M, Mokhtarzadeh A, Alibolandi M, Abnous K, Ramezani **Hashemi M** Ayatollahi S, .12  
 delivery systems by grafting pegylated alkylcarboxylate chains to PAMAM dendrimers:  
 cytotoxicity and cytotoxicity in cancerous and mesenchymal stem cells. J Biomater Appl. 2015;  
 30(5):632-48 (IF: 1.988).
- Ramezani M. Targeted Gene Delivery to MCF-7 Cells **Hashemi M** Mokhtarzadeh A, Parhiz H, .13  
 conjugated Polyethylenimine. AAPS PharmSciTech. 2015; 16(5):1025-32. (IF: (IF:1.954).
- Hashemi M, Mokhtarzadeh A, Tabatabai SM, Farzad SA, Shirvan HR, Ramezani M. **Hashemi M** .14  
 15; [Safe Gene Carriers by Grafting Alkyl Chains to Generation 5 Polypropyleneimine.](#)  
 16(5):1002-12 (IF: 1.954).
- Farzad S, Hashemi M, Sankain M. Down-regulation of Th2 immune responses by sublingual .15  
 poly(lactide-co-glycolic) acid (PLGA)-encapsulated allergen in BALB/c mice. Int Immunopharmacol.  
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- Hashemi M. Logical gene carriers designed for overcoming the major extra- **Hashemi M** Parhiz H, .16  
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- Farzad S, Hashemi M, Mokhtarzadeh A, Parhiz H, Farzad S, Hamideh Parhiz, Mohammad Ramezani, Gene Transfer **Maryam Hashemi** .17  
 efficiency by alkylcarboxylation of Poly(propyleneimine), Nanomed. J., 2013; 1(1): 55-62.
- Hashemi M. Gene delivery by Co-formulation of Different **Maryam Hashemi** Mazdak Ganjalikhani hakemi, .18  
 16(4)2013 Modified Polymers in Erythroleukemic Cell Line K562, Iran J Basic Med Sci,  
 genetic information [Ramezani M](#) , [Farzad SA](#) , [Shier WT](#) , [Hatefi A](#) , [Hashemi M](#) , [Parhiz H](#) .19  
[J Biomater Appl.](#) transfer with disulfide-linked polyethylenimine-based nonviral vectors,  
 polyethylenimine: [Ramezani M](#) , [Amel Farzad S](#) , [Shier WT](#) , [Hatefi A](#) , [Hashemi M](#) , [Parhiz H](#) .20  
 13 [Int J Biol Macromol.](#) Potent agent with simple components for nucleic acid delivery.
- Hashemi M, Farzad S, Parhiz H, and Ramezani M. Alkylcarboxylate **Hashemi M** Memari F, Amel Farzad S, Parhiz H, .21  
 grafted Chitosans as Efficient Gene Vectors with Improved Gene delivery Activity.  
 , 2013; 9(6): 717-722 (IF:1.64). [Nanoscience](#)
- Ramezani M., Modified polyethylenimine with histidine-lysine short peptides as gene .22  
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- Hashemi M. Immunoglobulin Stability in the , Baranzadeh N., Jaafari M.R., **Hashemi M** Varasteh A.R., .23  
 Journal of Basic Medical Sciences, 2008; 11 (1): 55-61 (IF: 0.243) ., Lyophilization Processes  
 Varasteh A.R., The assay of effective parameters on Anti-RhD concentration **Hashemi M** .24  
 by ultrafiltration system. Iran J Basic Med Sci, 2007; 10(1), 66-74.
- Hashemi M. Purification by an enzyme-linked antiglobulin test: A comparison **Hashemi M**. Sankian M., .25  
 study of two methods, Iran J Basic Med Sci, 2004; 7(2): 18-22.
- Hashemi M., Moghadassi Risseh M., Formulation of Anti-Rh (D) immunoglobulin preparation, .26  
 Iran J Basic Med Sic, 2004; 7(3):11-16.
- Hashemi M. Effect of plasma lipoprotein on Anti-Rh D purification by ion **Hashemi M**. Varasteh A.R., .27  
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- Hashemi M., Bazaz B.S., The role of ion exchange chromatography in purification and amount of .28  
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tion of Anti-Rh Immunoglobulin by ion exchange chromatography, Iran J Basic Med Sci, 2001;

4(3):16-21.

**Presentations**

International **Maryam Hashemi** Farhad Salari, Abdol-Reza Varasteh, Fatemeh Vahedi, .1  
Congress on Nanoscience & Nanotechnology (ICNT2015)" 2-3 July 2015, Istanbul, Turkey.

M. Parhiz, A. Hatefi. Modified Polyethylenimine with Histidine-lysine Short Peptides as .2  
Gene Carrier. July 4-9,2010. Zurich, Switzerland

., Fazly Bazaz B.S., Stability of AntiD Immunoglobulin prepared by ion **Hashemi M.**, .1  
chromatography, 11 international congress of immunology and allergy, Sweden, 2001.

ated stem cells for therapeutic application. International congress on **Hashemi M\***, .1  
stem cells and regenerative medicine. Mashhad. Iran. May 20-22. 2015.

hammad Ramezani. Effect of PEGylation using an alkyl chain as **Maryam Hashemi\***. .2  
Efficiency of polypropyleneimine dendrimer. 4th International symposium on Molecular  
technology. October 14-16. 2014. Tehran. Iran.

paration and evaluation of transfection efficiency of nanoparticles of **M. Hashemi\***, .3

h peptide containing histidine-lysine rich sequence as non viral vectors used in gene therapy, 8th Nanotechnology Iranian students conference, Mashhad, 1-2Dec, 2010.

- .1 purification control on therapeutic immunoglobulins, 1st **Hashemi M.**, Varasteh A.R., Seminar of Methodology in Pharmaceutical Sciences, Mashhad, Iran, 2002.
- .2 Study of the effect of plasma lipoprotein on Anti-Rh D purification by ion **Hashemi M\***, exchange chromatography, 6 Congress of Biochemistry, Tehran, Iran, 2001.
- .3 Standardization of topical preparations (gel, cream, ointment) from Aloes **Hashemi M\***, (latex of Aloe), 7th Iranian Seminar of Pharmaceutical Sciences, Mashhad, Iran, 2000.

**Administrative Responsibilities**

**Editor of Nanomedicine Journal, Publisher: Mashhad University of Medical Sciences**