

CV:

Family name: Mohammadi

First name: Ghobad

Gender: male

Date of birth: 1980-03-19

Place of birth: Islamabadegharb- Kermanshah - Iran

Marital Status: Married

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Academic background:

1. Pharm.D., Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran. 1998-2003.
2. PhD., Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran. 2004 – 2010 (**Possessing 1st rank**).
3. Research Fellow. Center for Drug Research, Faculty of Pharmacy, University of Helsinki, Helsinki, Finland. 2010 (6 month).

Experience:

1. Dean of the Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran from April 12, 2011-July 2012.

Honors and Awards:

- 1- One of the best rank researchers of Kermanshah University of Medical Sciences in the year 2012 and the prize has been awarded by Kermanshah University of Medical Sciences in the Research Festival.
- 2- One of the best rank researchers of Kermanshah University of Medical Sciences in the year 2011 and the prize has been awarded by Kermanshah University of Medical Sciences in the Research Festival.
- 3- Elected as an Iranian Best PhD Student in the year 2008 and the prizes has been awarded by the country president.
- 4- First rank researcher of Tabriz University of Medical Sciences in the year 2008 and the prize has been awarded by Tabriz University of Medical Sciences in the Research Festival.

Articles:

- 1- Barzegar-Jalali M, Mohammadi K, **Mohammadi G**, Valizadeh H, Barzegar-Jalali A, Adibkia K, Nokhodchi A. A correlative model to predict In Vivo AUC for nanosystem drug delivery with release rate-limited absorption. J Pharm Pharmaceut Sci (www.cspsCanada.org), 2012, 15(4) 583 - 591.
- 2- Adibkia K., Barzegar-Jalali M, Javadzadeh Y, Bayrami R, **Mohammadi G**. A review on the porous adsorbents in drug delivery systems. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2012, Vol.18, N(2), 103- 118.

- 3- Khanmohamadi A, Valizadeh H, Azhdarzadeh M, Lotfipour M, **Mohammadi G**, Zakeri P. Antibacterial evaluation of azithromycin nanoparticles. Research in Pharmaceutical Sciences, 2012, 7(5), S14.
- 4- Adibkia K, Alaei-Beirami M, Barzegar-Jalali M, **Mohammadi G**, Ardestani MS. Evaluation and optimization of factors affecting novel diclofenac sodium-eudragit RS100 nanoparticles. African Journal of Pharmacy and Pharmacology, 2012, 6(12), 941-947.
- 5- Azhdarzdeh M, Lotfipour F, Zakeri-Milani P, **Mohammadi G**, Valizadeh H. Anti-bacterial performance of azithromycin nanoparticles as colloidal drug delivery system against different gram-negative and grampositive bacteria. Advanced Pharmaceutical Bulletin, 2012, 2(1), 17-24.
- 6- Barzegar-Jalali M, Alaei-Beirami M, Javadzadeh Y, **Mohammadi G**, Hamidi A, Andalib S, Adibkia K. Comparison of physicochemical characteristics and drug release of diclofenac sodium–eudragit® RS100 nanoparticles and solid dispersions. Powder Technology, 2012, 219, 211-216.
- 7- Valizadeh H, **Mohammadi G**, Ehyaei N, Milani M, Azhdarzdeh M, Zakeri-Milani P, Lotfipour F. Antibacterial activity of clarithromycin loaded PLGA nanoparticles. Die Pharmazie, 2012, 67: 63-68.
- 8- **Mohammadi G**, Nokhodchi A, Barzegar-Jalali M, Lotfipour F, Adibkia K, Ehyaei N, Valizadeh H. Physicochemical and anti-bacterial performance characterization of Clarithromycin nanoparticles as colloidal drug delivery system. Colloids and Surfaces B: Biointerfaces, 2011, 88, 39-44.

- 9- Azhdarzadeh M, Valizadeh H, Lotfipour F, **Mohammadi G**, Zakeri-Milani P. Study of anti-microbial effects of Azithromycin nanosuspensions in comparison with drug solution. *Pharmaceutical Sciences*, 2011,16 (4), 211-220.
- 10- Adibkia K, Barzegar-Jalali M, **Mohammadi G**, Ebrahimnejhad H, Alaei-Beirami M. Effect of sodium alginate chain length and Ca^{2+} and Al^{3+} on the release of diltiazem from matrices. *Pharmaceutical Sciences*, 2011,16 (4), 221-228.
- 11- Movassaghian S, Barzegar-Jalali M, Alaeddini M, Hamedyazdan S, Afzalifar R, Zakeri-Milani P, **Mohammadi G**, Adibkia K. Development of amitriptyline buccoadhesive tablets in management of pain in dental procedures. *Drug. Dev. Ind. Pharm*, 2011, 37(7): 849–854.
- 12- Adibkia K, Javadzadeh Y, Dastmalchi S, **Mohammadi G**, Kari Niri F, Alaei-Beirami M. Naproxen–eudragit[®] RS100 nanoparticles: Preparation and physicochemical characterization. *Colloids and Surfaces B: Biointerfaces*. 2011, 83, 155-159.
- 13- Javadzadeh Y, Ahadi F, Davaran S, **Mohammadi G**, Sabzevari A, Adibkia K. Preparation and physicochemical characterization of naproxen–PLGA nanoparticles. *Colloids and Surfaces B: Biointerfaces*. 2010, 81, 489-492.
- 14- **Mohammadi G**, Valizadeh H, Barzegar-Jalali M, Lotfipour F, Adibkia K, Milani M, Azhdarzadeh M, Kiafar F, Nokhodchi A. Development of azithromycin–PLGA nanoparticles: Physicochemical characterization and

- antibacterial effect against *Salmonella typhi*.. Colloids and Surfaces B: Biointerfaces. 2010, 80, 34–39.
- 15- Barzegar-Jalali M, Hanaee J, Mohammadi G, Ahangary Z, Alaei-Beirami M, Adibkia K. Effect of different buffered and unbuffered dispersion medium on the physical and chemical stability of nystatin suspensions. *Pharmacia*. 2010, 1 (1), 19-23.
- 16- Adibkia K, Barzegar-Jalali M., Nokhodchi A., Siah Shadbad MR., Omidi Y., Javadzadeh Y, **Mohammadi G**. A review on the methods of preparation of pharmaceutical nanoparticles. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2010, Vol.15, N(4), 303- 314.
- 17- **Mohammadi G**, Barzegar-Jalali M, Valizadeh H, Nazemieh H, Barzegar-Jalali A, Siah Shadbad M.R, Adibkia K, Zare M. Reciprocal Powered Time model for Release Kinetic Analysis of Ibuprofen Solid Dispersions in Oleaster Powder, Microcrystalline Cellulose and Crospovidone.. *J Pharm Pharmsci*. 2010, 13(2) 152 – 161.
- 18- Barzegar-Jalali M, Valizadeh H, Siah Shadbad MR, Adibkia K, **Mohammadi G**, Farahani A, Arash Z, Nokhodchi A. Cogrounding as an approach to enhance dissolution rate of a poorly water soluble drug (gliclazide).. *Powder Technology*, 2010, 197(3): 150-158.
- 19- **Mohammadi G**, Barzegar-Jalali M, Siah Shadbad M, Azarmi S, Barzegar-Jalali A, Rasekhian M, Adibkia K, Danesh-Bahreini M, Kiafar F, Zare M, Raeesi R, Hosseini-Nasab SS. The effect of inorganic cations Ca^{2+} and Al^{3+}

- on the release rate of propranolol hydrochloride from sodium carboxymethylcellulose matrices. *Daru*, 2009, 17 (2):131-138.
- 20- Barzegar-Jalali M, Valizadeh H, **Mohammadi G**, Adibkia K. Analytical review of drug dissolution and release kinetic models. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2009, Winter (4): 191-207
- 21- Barzegar-Jalali M, Adibkia K, Valizadeh H, Siahi Shadbad MR, Nokhodchi A, Omidi Y, **Mohammadi G**, Hallaj Nezhadi S, Hasan M. Kinetic Analysis of Drug Release from Nanoparticles. *J Pharm Pharmaceut Sci* (www.cspCanada.org), 2008, 11 (1): 167-177.
- 22- Valizadeh H, Zakeri-Milani P, Barzegar-Jalali M, **Mohammadi G**, Danesh-Bahreini MA, Adibkia K, Nokhodchi A. Preparation and Characterization of Solid Dispersions of Piroxicam with Hydrophilic carriers. *Drug. Dev. Ind. Pharm*, 2007, 33: 45-56.
- 23- Adibkia K, Siahi shadbad M R, Nokhodchi A, Javadzadeh A, Barzegar-Jalali M, Barar J, **Mohammadi G**, Omidi Y. Piroxicam nanoparticles for ocular delivery: physicochemical characterization and implementation in endotoxin-induced uveitis, *J. Drug Targeting*, 2007, 15(6): 407-416 .
- 24- Adibkia K, Omidi Y, Siahi MR, Nokhodchi A, Javadzadeh AR, Barzegar-Jalali M, Barar J, Maleki N, **Mohammadi G**. Inhibition of Endotoxin-Induced Uveitis by Methylprednisolone Acetate Nanosuspension in Rabbits. *J. Ocular Pharmacol. Therap*, 2007, 23 (5): 421-428.

- 25- Barzegar-Jalali M, Siahi Shadbad MR, Azarmi S, Barzegar-Jalali A, **Mohammadi G**, Adibkia K. Study on the release of acetazolamide from matrices containing tragacanth and acacia gums. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2007, Winter (4): 21-28.
- 26- Barzegar-Jalali M, Siahi-Shadbad M R, Barzegar-Jalali A, Adibkia K, **Mohammadi G**, Aghaee Ghare Bolagh B, Zeraati M. Design and evaluation of delayed-release osmotic capsule of acetaminophen., *Iranian J. Pharm. Sci*, 2006, 2 (2): 65-72.
- 27- Barzegar-Jalali M, Adibkia K, **Mohammadi G**, Zeraati M, Aghaee Ghare Bolagh B, Nokhodchi A. Propranolol Hydrochloride Osmotic Capsule with Controlled Onset of Release, *Drug Delivery*, 2007, 14: 461–468.
- 28- Barzegar-Jalali M, Valizadeha H, Dastmalchi S, Siahi Shadbad MR, Barzegar-Jalal A, Adibkia K, **Mohammadi G**. Enhancing Dissolution Rate of Carbamazepine via Cogrinding with Crospovidone and Hydroxypropylmethylcellulose. *Iranian Journal of Pharmaceutical Research*. 2007, 6 (3): 159-165.
- 29- Barzegar-Jalali M, Siahi Shadbad M.R, Barzegar-Jalali A, **Mohammadi G**, Azarmi S, Danesh-Bahreini M.A, Adibkia K, Rasekhian M, Raeesi R, Zare M. The effect of Al³⁺ on the propranolol hydrochloride release from polyanionic polymer matrices. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2007, Autumn (3):7-17.

- 30- Azarmi S, Hatamkhani S, Monajjemzadeh F, **Mohammadi G**. Effect of thermal-treating on the release of theophylline HCl from the granules prepared using acrylic polymers. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2006, Winter (4): 17-26.
- 31- Azarmi S, Shokri J, Hallaj Nezhadi S, **Mohammadi G**. Formulation of Diclofenac Diethylamine Emolgel Evaluation of Various Peneration Enhancers on Percupaneous Absorption of the Drug from Emulgels. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2005, Spring (1):85-95.
- 32- Valizadeh H, **Mohammadi G**, Adibkia K, Zakeri-Milani P, Nokhodchi A. Effect of PEG molecular weight on the physicochemical properties of piroxicam solid dispersions prepared by melting method. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2005, Summer (2): 33-39.

Book Chapters:

- 1- Salmonella – A Diversified Superbug. Edited by Yashwant Kumar, 2012, In Tech Publisher (www.intechopen.com). Chapter 8: Nanotechnology Tools for Efficient Antibacterial Delivery to *Salmonella*: 139-168.

Presentations:

- 1- 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010). August 2010, Zanjan, Iran. K. Adibkia, **G. Mohammadi**, M. Barzegar-Jalali, H Zolfaghari. Comparing diltiazem hydrochloride release from monolayer matrices of tragacanth gum and two grades of HPMC. Poster.

- 2- 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010). August 2010, Zanjan, Iran. K. Adibkia, **G. Mohammadi**, M. Barzegar-Jalali, H Ebrahimnejad. Effect of sodium alginate chain length and Ca^{2+} and Al^{3+} on the release of diltiazem from matrices. Poster.
- 3- The 5th nanotechnology student's congress. June 2009, Tehran, Iran. **G. Mohammadi**, M. Barzegar-Jalali, A. Nokhodchi, H. Valizadeh, K. Adibkia. Preparation and physical pharmacy of azithromycin and clarithromycin nanoparticles. Poster.
- 4- 10th Iranian congress of medical students, May 2009, Tehran, Iran. H. Valizadeh, F. Lotfipoor, P. Zakeri Milani, **G. Mohammadi**, M. Ajdarzadeh. Investigation on the anti microbial effects of azithromycin nanoparticles. Poster.
- 5- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. M. Barzegar-Jalali, S Halaj Nezhadi, M Hasan, K Adibkia, **G Mohammadi**. Application of diffusion, erosion and polymer relaxation model to drug release from nanoparticles. Poster.
- 6- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. A. Farahani, M. Barzegar-Jalali, A Nokhodchi, Z. Arash, **G Mohammadi**, K. Adibkia. Physicochemical characterization of gliclazide solid dispersions prepared by povidone, cross povidone and microcrystalline cellulose. Poster.
- 7- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. H. Ebrahimnejad, M. Barzegar-Jalali, Y. Omid, **G Mohammadi**, K. Adibkia, Zolfaghari

- H. Sustaining acetazolamide release from anionic polymeric matrices via in situ cross linkage with Ca^{2+} . Poster.
- 8- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran.
Zolfaghari H, M. Barzegar-Jalali, K. Adibkia, **G Mohammadi**, H. Ebrahimnejad.
Comparing diltiazem hydrochloride release from monolayer matrices prepared of tragacanth gum and two grades of HPMC. Poster.
- 9- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. K Salarmand, M. Barzegar-Jalali, MR Siah shadbad, **G Mohammadi**, M Danesh-Bahreini, K Adibkia, M Zare. The effect of Al^{3+} on the propranolol hydrochloride release from polyanionic polymers. Poster.
- 10- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. F Kiafar, M. Barzegar-Jalali, A Nokhodchi, D Hassanzadeh, H Honarmand, **G Mohammadi**. Evaluation of HPMC-based diltiazem hydrochloride matrices prepared by wet granulation method. Poster.
- 11- 11th Iranian Pharmaceutical Sciences Conference, August 2008, Kerman, Iran. M. Barzegar-Jalali, M Hasan, M Rasekhian, **G Mohammadi**, K Adibkia, S Hallaj Nezhadi. The effect of inorganic cations Ca^{2+} and Al^{3+} on the release rate of propranolol hydrochloride from sodium carboxymethylcellulose matrices. Poster.
- 12- The 2nd International Congress and The 9th Annual Research Congress for Students of Medical Sciences, 25- 27 May 2008, Mashad, Iran. Barzegar-Jalali M., Barzegar-Jalali A., **Mohammadi G.**, Azarmi S., Danesh-Bahreini M., Adibkia K.,

- Rasekhian M., Salarmand K., Sadeghi R. The effect of Al³⁺ on the propranolol hydrochloride release from polyanionic polymers. Poster.
- 13- Belgium Society of Pharmaceutical Sciences, 11-12 Oct 2007, Spa, Belgium.
Adibkia K., Siah Shadbad MR., Omid Y., De Smedt S., Demeester J., Javadzede A., Barzegar-Jalali M., Barar J., **Mohammadi G.**, Nokhodchi A. , Piroxicam nanoparticles for ocular delivery: Physicochemical characterization and implementation in endotoxin-induced uveitis. Oral.
- 14- 5th international postgraduate research symposium on pharmaceutics, Istanbul-Turkey September 2007. M Barzegar-Jalali, A Nochodchi, M R Siah Shadabad, Y Omid, K Adbkia, **G Mohammadi**, S Hallaj Nezhdi, Study of the release kinetics of drug nanoparticles, Poster.
- 15- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. M Barzegar-Jalali, A. Mohajjel Nayebi, H. Valizadeh, J. Hanaeea, Kh. Adibkia, **G. Mohammadi**, M. Anoush, M. Sistanizad. Bioavailability Improvement of Carbamazepine by Solid Dispersion Technique. Poster.
- 16- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. H Valizadeh, Sh Mirzaeei, **G Mohammadi**, Kh Adibkia, P Zakeri-Milani, A Nokhodchi. Effect of PEG molecular weight on the physicochemical properties of piroxicam solid dispersions prepared by melting method. Poster.
- 17- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. M Barzegar-Jalali, M.R Siah Shadbad, **G Mohammadi**, Kh Adibkia.

Evaluating drug retardation efficiency of matrices prepared from two natural polymers. Poster.

18- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. M Barzegar-Jalali , A Nokhodchi, Kh Adibkia, **G Mohammadi**, M Zeraati, B Aghae GhareBolagh. Propranolol Hydrochloride Osmotic Capsule with Controlled Onset of Release. Poster.

19- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. M. Barzegar-Jalali, J. Shokri, S. Azarmi, Kh. Adibkia, **G. Mohammadi**, B. Raissia, A. Sabzvaria. The Effect of Eudragit Polymers on Controlling Carbamazepine Release from Simple Matrices. Poster.

20- 3rd Iranain Conference of Novel Drug Delivery Systems, Tehran – Iran, June 2007. H. Valizadeh, P. Zakeri-Milani, M. Barzegar-Jalali, **G. Mohammadi**, M. A Danesh-Bahreini, Kh. Adibkiad, A. Nokhodchia, A. Sabzvaria. Preparation and Characterization of Solid Dispersions of Piroxicam with Hydrophilic Carriers. Poster.

21- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M., Ghafourian T., Siah Shadbad MR., Adibkia K., Zakeri-Milani P., Barzegar-Jalali A., **Mohammadi G.**, Correlation between fraction of drug dose absorbed from human intestine and molecular polar surface area. Poster.

22- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M.,

- Mohammadi G**, Adibkia K., Barzegar-Jalali A., Effect of Donnan phenomenon on transport rate of sodium diclofenac solution through dialysis membrane. Poster.
- 23- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar_Jalali M., **Mohammadi G.**, Adibkia K. Azarmi Sh. Study the effect of Tragacanth and Acacia gums in the release of Acetazolamide from polymeric matrices, , Poster.
- 24- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M., Barzegar-Jalali A. Hanaee J. Omidi Y. Danesh-Bahraini. Adibkia K., **Mohammadi G.** Molavi O. Formulation of terfenadine controlled-release matrices. Poster.
- 25- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M., Barzegar-Jalali A ., Siahi Shadbad MR ., Hasanzadeh D ., Nokhodchi A ., **Mohammadi G .**, Danesh-bahraini M ., Adibkia K., Jobbehdar F. Simultaneous effect of swelling and in situ cross-linking polymers on drug release from monolithic devices., Poster.
- 26- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M. Barzegar-Jalali A., Adibkia K., **Mohammadi G** , Zeraati M ., Aghaee B. Factors affecting the lag time of propranolol hydrochloride release from delayed-action osmotic capsules., Poster.
- 27- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M., Adibkia

K., **Mohammadi G.**, Aghaee B., Zeraati M. Design and evaluation of osmotic based acetaminophen delayed-release capsule., Poster.

28- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M ., Barzegar-Jalali A ., Hanaee J ., Siah Shadbad MR ., Omid Y., Danesh-Bahraini M ., Adibkia K., **Mohammadi G .**, Mizani-Oskoei F. Formulation of some nifedipine sustained release matrices., Poster.

29- 10th Iranian Pharmaceutical Sciences Conference, Shahid Beheshti University of Medical Sciences, Tehran, Iran, August 21-24, 2006. Barzegar-Jalali M., Adibkia K., Shokri J., Atapor N., **Mohammadi G.** Physicochemical characterization of naproxen after cogrinding with crospovidone, vigum and *Elaeagnus angustifolia* fruit powder., Poster.

Teaching activities:

1. Practical Pharmaceutics. From 2005 to 2009. Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.
2. Physical Pharmacy 1. From 2007 until now. Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran.
3. Physical Pharmacy 2. From 2007 until now. Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran.

Supervision of thesis:

1. Application of viral vectors for targeted gene therapy. Pharm D thesis, by Arash Armyun. Thesis No: 3316, June 2006. Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.

Projects:

Supervisor of about 15 projects in the Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran.