

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).

Honors and Awards:

- 1- Elected as an Iranian Best PhD Student in the year 2008 and the prizes has been awarded by the country president.
- 2- 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- Development of amitriptyline buccoadhesive tablets in management of pain in dental procedures. Sara Movassaghian, Mohammad Barzegar-Jalali, Mojgan Alaeddini, Sanaz Hamedyazdan, Rose Afzalifar, Parvin Zakeri-Milani, **Ghobad Mohammadi**., Khosro Adibkia. Drug. Dev. Ind. Pharm, 2011, In Press.
- 2- Naproxen–eudragit[®] RS100 nanoparticles: Preparation and physicochemical characterization. Khosro Adibkia, Yousef Javadzadeh, Siavoush Dastmalchi, **Ghobad Mohammadi**, Fatemeh Kari Niri, Mahmood Alaei-Beirami. Colloids and Surfaces B: Biointerfaces. 2011, 83, 155-159.
- 3- Preparation and physicochemical characterization of naproxen–PLGA nanoparticles. Yousef Javadzadeh, Fatemeh Ahadi, Soodabeh Davaran,

Ghobad Mohammadi, Araz Sabzevari, Khosro Adibkia. Colloids and Surfaces B: Biointerfaces. 2010, 81, 489-492.

- 4- Development of azithromycin–PLGA nanoparticles: Physicochemical characterization and antibacterial effect against Salmonella typhi. **Ghobad Mohammadi**, Hadi Valizadeh, Mohammad Barzegar-Jalali, Farzaneh Lotfipour, Khosro Adibkia, Morteza Milani, Morteza Azhdarzadeh, Farhad Kiafar, Ali Nokhodchi. Colloids and Surfaces B: Biointerfaces. 2010, 80, 34–39.
- 5- A review on the methods of preparation of pharmaceutical nanoparticles. Adibkia K, Barzegar-Jalali M., Nokhodchi A., Siah Shadbad MR., Omid Y., Javadzadeh Y. **Mohammadi G**. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2010, Vol.15, N(4), 303- 314.
- 6- Reciprocal Powered Time model for Release Kinetic Analysis of Ibuprofen Solid Dispersions in Oleaster Powder, Microcrystalline Cellulose and Crospovidone. **G Mohammadi**, M Barzegar-Jalali, H Valizadeh, H Nazemieh, A Barzegar-Jalali, M.R Siah Shadbad, K. Adibkia, M. Zare. J Pharm Pharmsci. 2010, 13(2) 152 – 161.
- 7- Cogrounding as an approach to enhance dissolution rate of a poorly water soluble drug (gliclazide). Mohammad Barzegar-Jalali, Hadi Valizadeh, Mohammad-Reza Siah Shadbad, Khosro Adibkia, **Ghobad Mohammadi**,

- Amin Farahani, Zeynab Arash, Ali Nokhodchi. Powder Technology, 2010, 197(3): 150-158.
- 8- The effect of inorganic cations Ca^{2+} and Al^{3+} on the release rate of propranolol hydrochloride from sodium carboxymethylcellulose matrices. **Mohammadi G**, Barzegar-Jalali M, Siahi Shadbad M, Azarmi S, Barzegar-Jalali A, Rasekhian M, Adibkia K, Danesh-Bahreini M, Kiafar F, Zare M, Raeesi R, Hosseini-Nasab SS. Daru, 2009, 17 (2):131-138.
- 9- Analytical review of drug dissolution and release kinetic models. M Barzegar-Jalali, H Valizadeh, **G Mohammadi**, Adibkia K. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2009, Winter (4): 191-207
- 10- Kinetic Analysis of Drug Release from Nanoparticles. M Barzegar-Jalali, K Adibkia, H Valizadeh, MR Siahi Shadbad, A Nokhodchi, Y Omid, **G Mohammadi**, S Hallaj Nezhadi, M Hasan. J Pharm Pharmaceut Sci (www.cspCanada.org), 2008, 11 (1): 167-177.
- 11- Preparation and Characterization of Solid Dispersions of Piroxicam with Hydrophilic carriers. H Valizadeh, P Zakeri-Milani, M Barzegar-Jalali, **G Mohammadi**, MA Danesh-Bahreini, K Adibkia, A Nokhodchi. Drug. Dev. Ind. Pharm, 2007, 33: 45-56.
- 12- Piroxicam nanoparticles for ocular delivery: physicochemical characterization and implementation in endotoxin-induced uveitis, K Adibkia,

- M R Siahshadbad, A Nokhodchi, A Javadzadeh, M Barzegar-Jalali, J Barar, **G Mohammadi**, Y Omid. *J. Drug Targeting*, [2007, 15\(6\): 407-416](#).
- 13- Inhibition of Endotoxin-Induced Uveitis by Methylprednisolone Acetate Nanosuspension in Rabbits. K Adibkia, Y Omid, MR Siahshadbad, A Nokhodchi, AR Javadzadeh, M Barzegar-Jalali, J Barar, N Maleki, **G Mohammadi**. *J. Ocular Pharmacol. Therap*, 2007, 23 (5): 421-428.
- 14- Study on the release of acetazolamide from matrices containing tragacanth and acacia gums. M Barzegar-Jalali, MR Siahshadbad, S Azarmi, A Barzegar-Jalali. **G Mohammadi**, K Adibkia. *Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy*, 2007, Winter (4): 21-28.
- 15- Design and evaluation of delayed-release osmotic capsule of acetaminophen. M Barzegar-Jalali, M R Siahshadbad, A Barzegar-Jalali, K Adibkia, **G Mohammadi**, B Aghaee Ghare Bolagh, M Zeraati, *Iranian J. Pharm. Sci*, 2006, 2 (2): 65-72.
- 16- Propranolol Hydrochloride Osmotic Capsule with Controlled Onset of Release, M Barzegar-Jalali, K Adibkia, **G Mohammadi**, M Zeraati, B Aghaee Ghare Bolagh, A Nokhodchi. *Drug Delivery*, 2007, 14: 461–468.
- 17- Enhancing Dissolution Rate of Carbamazepine via Cogrounding with Crospovidone and Hydroxypropylmethylcellulose. M Barzegar-Jalali, H Valizadeha, S Dastmalchi, M R Siahshadbad, A Barzegar-Jalali, K Adibkia, **G Mohammadi**. *Iranian Journal of Pharmaceutical Research*. 2007, 6 (3): 159-165.

- 18- The effect of Al^{3+} on the propranolol hydrochloride release from polyanionic polymer matrices. M Barzegar-Jalali, M.R Siah Shadbad, A Barzegar-Jalali, **G Mohammadi**, S Azarmi, M.A Danesh-Bahreini, K Adibkia, M Rasekhian, R Raeesi, M Zare. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2007, Autumn (3):7-17.
- 19- Effect of thermal-treating on the release of theophylline HCl from the granules prepared using acrylic polymers. S Azarmi, S Hatamkhani, F Monajjemzadeh, **G Mohammadi**. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2006, Winter (4): 17-26.
- 20- Formulation of Diclofenac Diethylamine Emolgel Evaluation of Various Penetration Enhancers on Percutaneous Absorption of the Drug from Emulgels. S Azarmi, J Shokri, S Hallaj Nezhadi, **G Mohammadi**. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2005, Spring (1):85-95.
- 21- Effect of PEG molecular weight on the physicochemical properties of piroxicam solid dispersions prepared by melting method. H Valizadeh, **G Mohammadi**, K Adibkia, P Zakeri-Milani, A Nokhodchi. Pharmaceutical Sciences, Journal of Tabriz Faculty of Pharmacy, 2005, Summer (2): 33-39.

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 Ca²⁺. 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 Siahi shadbad, **G Mohammadi**, M Danesh-Bahreini, K Adibkia, M Zare. The effect of Al³⁺ 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 Ca²⁺ and Al³⁺ 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 Siahi 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., Siahi 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. Omid 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 ., Siahi 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:

Co worker of about 15 projects in the Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.