

Parvin Zakeri-Milani ,Ph.D



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Educational Background

Pharm. D: Faculty of Pharmacy, Tabriz University of Medical Sciences, 1998.

Research Fellow: Kinetana, Inc. Edmonton, Alberta (Canada): 1 year.

PhD: Faculty of Pharmacy, Tabriz University of Medical Sciences, 2005.

Research Fellow: University of Alberta, Edmonton, Canada

Research experiences and fields of interest

- Prediction of human oral drug absorption and permeability screening
- Biological membranes modeling based on cell culture techniques
- HPLC method development for determination of drugs in serum/plasma
- In vitro- in vivo correlation
- Pharmacokinetics and Biopharmaceutics: studies using animal models
- Bioavailability /Bioequivalence studies
- Protein binding of drugs
- P-glycoprotein inhibitors screening
- Liposomal drug delivery
- Self micro/nano emulsifying systems

Teaching experiences

- Biopharmacy and Pharmacokinetics (Theoretical and practical)
- Cosmetics & Toiletries (Theoretical and practical)
- Pharmaceutical Dosage forms (Theoretical and practical)
- Drug Delivery Systems and Target therapy
- Academic writing

Awards

- Ranking the best paper in the 9th congress pharmaceutical sciences, Tabriz-Iran (2004).
- Awarded prize for the best researcher of Tabriz University of Medical Sciences Research Centers, Tabriz, Iran (2010).

- Awarded prize for the best educational pattern of Tabriz University of Medical Sciences ,4th Educational Festival of Shahid Motahari, Tabriz, Iran (2011).
- Awarded prize for the best educational pattern of Iran,4th Educational Festival of Shahid Motahari, Mashad, Iran (2011).
- Awarded prize for the best researcher of Faculty of Pharmacy, Tabriz University of Medical Sciences, Iran (2011).
- Award of the 3rd prize for the best researcher of Tabriz University of Medical Sciences, Iran (2012).

Books

- Parvin Zakeri-Milani, Hadi Valizadeh, Hosnyeh Tajerzadeh, Intestinal permeability studies: Techniques for prediction and their application in biopharmaceutical classification of compounds, Lambert academic publishing group, ISBN: 978-3-8433-9227-3, 2011.
- Book Chapter: Parvin Zakeri-Milani and Hadi Valizadeh, Mass transfer phenomena and biological membranes in:Mass transfer in multiphase systems and its applications, InTech Open Access Publisher, Mohamed El-Amin (Ed),ISBN: 978-953-307-215-9, pp.593-620, 2011.
- Biological Barriers and Drug Absorption, Nashr Afrouz Press, Tehran, Iran, 2008.

Publications

1. Nokhodchi A., **Zakeri-Milani P.**, Valizadeh H., Hassanzadeh D.; Performance of polymers in microencapsulation of acetyl salicylic acid, Journal of Pharmaceutical Sciences (Tabriz Faculty of Pharmacy), vol 4, 87-93 (2000).
2. Nokhodchi A., **Zakeri-Milani P.**, Valizadeh H., Hassanzadeh D.; Evaluation of microcapsules of Acethyl salicylic acid prepared with cellulose acetate phthalate, ethyl cellulose or their mixtures by an emulsion non-solvent addition technique. ARS Pharmaceutica, 43(3-4): 135-145 (2002).
3. Valizadeh H., Nokhodchi A, Qarakhani N, **Zakeri-Milani P.**, Azarmi Sh., Hassanzadeh D., Loebenberg R.; Physicochemical characterization of Solid dispersions of indomethacin with PEG 6000, Myrj 52, Lactose, Sorbitol, Dextrin and Eudragit E100., Drug Development and Industrial Pharmacy, 30(3), 303-317, (2004).
4. Hadi Valizadeh, Mohammad Pourmahmood, Javid Shahbazi Mojarrad, Mahboob Nemati, **Parvin Zakeri-Milani**, Application of Artificial Intelligent Tools to Modeling of Glucosamine Preparation from Exoskeleton of Shrimp, Drug Dev Ind Pharm, 2009, 35:396-407
5. Valizadeh H., Mohammadi G., Adibkia KH., **Zakeri-Milani P.**, Nokhodchi A., The effect of PEGs molecular weight on physicochemical properties of Piroxicam solid dispersions prepared by melting

method, *Journal of Pharmaceutical Sciences (Tabriz Faculty of Pharmacy)*, vol 2, 33-39 (2005).

6. **Zakeri-Milani P.**, Barzegar-Jalali M., Tajerzadeh H., Azarmi Y., Valizadeh H.; Simultaneous determination of naproxen, ketoprofen and phenol red in samples from rat intestinal permeability studies: HPLC method development and validation, *J Pharm. Biomed. Anal.*, 39, 624–630 (2005).

7. **Zakeri-Milani Parvin**, Tajerzadeh Hosniyeh, Islambolchilar Ziba, Barzegar Saeed, Valizadeh Hadi; The relation between molecular properties of drugs and their transport across the intestinal membrane, *Daru*, 14(4): 164-171 (2006).

8. **Zakeri-Milani P.**, Valizadeh H., Azarmi Y., Barzegar-Jalali M., Tajerzadeh H., Simultaneous determination of metoprolol, propranolol and phenol red in samples from rat in situ intestinal perfusion studies, *Daru*, 14(2): 102-108 (2006).

9. Valizadeh H., **Zakeri-Milani P.**, Islambolchilar Z., Tajerzadeh H., A simple and rapid HPLC method for determining Furosemide, Hydrochlorothiazide and Phenol red: Applicability to Intestinal permeability studies, *J. AOAC Int.*, 89(1): 88-93 (2006).

10. **Zakeri-Milani P.**, Valizadeh H., The use of Caco-2 cell monolayers as a model to predict human intestinal permeability and drug absorption, *Journal of Pharmaceutical Sciences (Journal of Tabriz Faculty of Pharmacy)*, Winter, 71-77, 2006.

11. **Zakeri-Milani Parvin**, Valizadeh Hadi, Tajerzadeh Hosnieh, Azarmi Yadollah, Islambolchilar Ziba, Barzegar Saeed, Barzegar-Jalali Mohammad, Predicting Human Intestinal Permeability using Single-pass Intestinal Perfusion in rat, *J Pharm Pharmaceut Sci*, 10 (3): 368-379, 2007.

12. Valizadeh H., Mohammadi G., **Zakeri-Milani P.**, Danesh-Bahreini M.A., Nokhodchi A., Adibkia K., Barzegar-Jalali M., Preparation and characterization of solid dispersions of piroxicam with hydrophilic carriers, *Drug Development and Industrial Pharmacy*, 33(1): 45-56 (2007).

13. Hadi Valizadeh, Hosniyeh Tajerzadeh, **Parvin Zakeri-Milani**; Comparison of mass transfer models for determination of the intestinal permeability. *Daru*, 2008, 16(4): 203-210.

14. **Zakeri-Milani Parvin**, Valizadeh Hadi, Islambolchilar Ziba , Damani Sanaz , Mehtari Maryam ; Investigation of intestinal permeability of cyclosporine using in situ technique in rats and the

relevance of P-glycoprotein, Drug Research (ArzneimForsch), 2008, 58(4):188-192.

15. **Zakeri-Milani Parvin**, Valizadeh Hadi, Islambulchilar Ziba, Comparative bioavailability study of two cefixime formulations administered orally in healthy male volunteers, Drug Research (Arzneimittel-Forschung), 2008, 58(2):97-100.

16. **Zakeri Milani P.**, Barzegar Jalali M., Valizadeh H., Azimi M., Hallaj Nezhadi S. Study of the Correlation Between Intrinsic Dissolution Rate and Some Physicochemical and Pharmacokinetic Parameters of the Compounds, Journal of Pharmaceutical Sciences (Journal of Tabriz faculty of Pharmacy), Autumn (2008), 21-31.

17. Hadi Valizadeh, Mohammad Pourm Mahmood, Javid Shahbazi Mojarrad, Mahboob Nemati, **Parvin Zakeri-Milani**, Application of Artificial Intelligent Tools to Modeling of Glucosamine Preparation from Exoskeleton of Shrimp, Drug Dev Ind Pharm, 2009, 35:396-407

18. Hadi Valizadeh, Leila Barghi, Hadi Jalilian, Ziba Islambulchilar, **Parvin Zakeri-Milani**; Bioequivalence of fexofenadine tablet formulations assessed in healthy Iranian volunteers, Drug Research (ArzneimForsch), 2009, 59(7): 345-349

19. **Parvin Zakeri-Milani**, Hadi Valizadeh, Saeed Ghanbarzadeh, Mahboob Nemati; Pharmacokinetic study of two clarithromycin suspensions following single oral dose to healthy volunteers, Drug Research (ArzneimForsch), 2009, 59(8): 429-432.

20. **Parvin Zakeri-Milani** , Hadi Valizadeh, Ziba Islambulchilar, Maryam Mehtari , Sanaz Damani. Effect of erythromycin and clarithromycin on the intestinal transport of digoxin, Journal of Pharmaceutical Sciences (Journal of Tabriz faculty of Pharmacy), In press.

21. **Parvin Zakeri-Milani**, Mohammad Barzegar-Jalali, Mandana Azimi, Hadi Valizadeh; Biopharmaceutical classification of drugs using intrinsic dissolution rate (IDR) and rat intestinal permeability, European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73:102-106.

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methylcellulose on dialysis rate of furosemide, , Pharmaceutical Sciences (Journal of Tabriz faculty of Pharmacy), 2009; 15(4): 323- 328.

24. **Zakeri-Milani P.** ,Valizadeh H. , Tejerzadeh H. Methods to study the gastrointestinal absorption and permeability of drugs, Pharmaceutical Sciences (Journal of Tabriz faculty of Pharmacy), 2009; 15(3): 279-292.

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33.**Parvin Zakeri-Milani**, Saeed Ghanbarzadeh, Farzaneh Lotfipoor, Morteza Milani, Hadi Valizadeh; Pharmacokinetic study of two macrolide antibiotic oral suspensions using an optimized bioassay procedure. *Journal of Bioequivalence & Bioavailability*, 2010 ; 2(5), 11-115.

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35.Sara Movassaghian, Mohammad Barzegar-Jalali, Mojgan Alaeddini, Sanaz Hamedyazdan, Rose Afzalifar, **Parvin Zakeri-Milani**, Ghobad Mohammadi, and Khosro Adibkia, Development of amitriptyline buccoadhesive tablets for management of pain in dental procedures, *Drug Development and Industrial Pharmacy*, 2011, 1–6, Early Online.

36.**Parvin Zakeri-Milani**, Mahboob Nemati, Saeed Ghanbarzadeh, Hamed Hamishehkar, Hadi Valizadeh; Fasted state bioavailability of two delayed release formulations of divalproex sodium in healthy Iranian volunteers. *Drug Research (ArzneimForsch)*, 2011, 61(8), 439-443.

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38.**Parvin Zakeri-Milani**, Sanaz Jalili, Hadi Valizadeh, Flowability Optimization of Sodium Divalproex Powder Using Central composite Design, *Pharmaceutical Sciences (Journal of Tabriz faculty of Pharmacy)*, 2011, 17(2), 81-88.

39.**Parvin Zakei-Milani**, Ziba Islambolchilar, Shole Ebrahimpoor, Mohammad Barzegar-Jalali, Hadi Valizadeh, Investigation of furosemide dialysis rate in the presence of anionic polymers, *Dissolution Technology*, 2012, May, 21-25.

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Parvin Zakeri-Milani, Farzaneh Lotfipour, Antibacterial activity of Clarithromycin loaded PLGA nanoparticles, *Die Pharmazie*, 2012, 67 (1): 63-68.

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52. **Zakeri-Milani P.**, Ghanbarzadeh S., Valizadeh H., Comparative in vitro dissolution and in vivo bioequivalence of two pentoxifylline sustained release formulations, *Arzneimittelforschung/Drug Research*, 2012, (62), 335-339.

53. **Parvin Zakeri-Milani**, Soma Ebrahimi, Hadi Valizadeh, Investigation of Digoxin Solubility in Different Cosolvent Systems, *Pharmaceutical Sciences (Journal of Tabriz Faculty of Pharmacy)*, 2012, 18(2), 87-92.

54. **Zakeri Milani P.**, Barzrgar-Jalali M., Janatabadi E., Majidpour F., Islambulchilar Z., Valizadeh H, Study of the Correlation between Thermodynamic parameters and some Physicochemical and Pharmacokinetic parameters, *Pharmaceutical Sciences (Journal of Tabriz Faculty of Pharmacy)*, 2012, 18(1), 79-86.

55. Hadi Valizadeh, Hamed Hamishehkar, Saeed Ghanbarzadeh, Narges Zabihian, **Parvin Zakeri-Milani**, Pharmacokinetics and Bioequivalence Evaluation of Two Brands of Ciprofloxacin 500 mg Tablets in Iranian Healthy Volunteers, *ArzneimForsch/DrugRes*, 2012, 62: 566-570.

56. Saeed Ghanbarzadeh, Hadi Valizadeh, **Parvin Zakeri-Milani**, The Effects of Lyophilization on the Physico-Chemical Stability of Sirolimus Liposomes, *Advanced Pharmaceutical Bulletin*, 2013, 3(1), 25-29 .

57. **Parvin Zakeri-Milani**, Badir Delf Loveymi, Mitra Jelvehgari, Hadi Valizadeh, The characteristics and improved intestinal permeability of vancomycin PLGA-nanoparticles as colloidal drug delivery system, *Colloids and Surfaces B: Biointerfaces*, 2013, 103: 174-181.
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61. Mitrat Jelvehgari, Fatemeh Khansari, **Parvin Zakeri-Milani**, Formulation and Evaluation of in vitro Characterization of Gastic-Mucoadhesive Microparticles/discs Containing Metformin Hydrochloride, *Iranian Journal of Pharmaceutical Research*, 2014, 13(1), 67-80.
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64. Soheila Bolandnazar, Adeleh Divsalar, Hadi Valizadeh, Arash Khodaei, **Parvin Zakeri-Milani**, Development and application of an HPLC Method for erlotinib protein binding studies, *Advanced Pharmaceutical Bulletin*, 2013, 3(2), 289-293.
65. **Parvin Zakeri-Milani**, Ziba Islambulchilar, Saeed Ghanbarzadeh, Hadi Valizadeh, Single Dose Bioequivalence study of Two Brands of Olanzapine 10 mg Tablets in Iranian Healthy volunteers,

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67. Saeed Ghanbarzadeh, Hadi Valizadeh, **Parvin Zakeri-Milani**, Sirolimus Nano Liposomes / Optimization of sirolimus nano liposomes prepared by modified ethanol injection method using response surface methodology, *Pharmind*, 2013, 75(8).

68. Hadi Valizadeh, Hadi Fahimfar, Saeed Ghanbarzadeh, Ziba Islambulchilar, **Parvin Zakeri-Milani**, Effect of Anionic Macromolecules on Intestinal Permeability of Furosemide , *Drug Dev Ind Pharm*, 2013, Nov 6, Early on line, 1-4.

69. **Parvin Zakeri-Milani**, Ziba Islambulchilar, Fatemeh Majidpour, Ensieh Jannatabadi, Farzaneh Lotfipoor, Hadi Valizadeh, A study on enhanced intestinal permeability of Clarithromycin nanoparticles, *Braz J Pharm Sci*, 2014,121-129.

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74. Ziba Islambulchilar, Hadi Valizadeh, **Parvin Zakeri-Milani**, Solubilization of Sirolimus Using SNEDDS Formulations: Application of Statistical Experimental Design, *Pharm Ind (die*

pharmazeutische industrie), 2014, Accepted.

75. Ramin Mohammadzadeh, Behzad Baradaran, Hadi Valizadeh, Bahman Yousefi, **Parvin Zakeri-Milani**, Reduced ABCB1 Expression and Activity in the Presence of Acrylic Copolymers, APB, 2014, 4(3),219-224.

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78. Shahram Emami, Hadi Valizadeh, Ziba Islambulchilar, **Parvin Zakeri-Milani**, Development and Physicochemical Characterization of Sirolimus Solid Dispersions Prepared by Solvent Evaporation Method, Advanced Pharmaceutical Bulletin, 2014, 4(4), 369-374.

79. Mehran Mesgari Abbasi, Bitra Abdollahi, **Parvin Zakeri-Milani**, Daryoush Mohajeri, Ashraf Sadat Nourdadgar, Effects of Hydro-Methanolic Extract of Cornus mas on Histopathological and Biochemical Parameters of Rats' Liver and Kidney, Bothalia Journal, 2014, 44(3), 250-259.

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82. Hadi Valizadeh, Saeed Ghanbarzadeh, **Parvin Zakeri-Milani**, Fusogenic liposomal formulation of sirolimus: improvement of drug antiproliferative effect on human T-cells, Drug Dev Ind Pharm, Accepted.

83. Samaneh Mohammadi, Javid Shahbazi Mojarrad, **Parvin Zakeri-Milani**, Ali Shirani, Samad Mussa Farkhani, Hadi Valizadeh, Synthesis and In vitro Evaluation of Amphiphilic peptides and their nanostructured conjugates, Adv Pharm Bull, Accepted.

Presentations

o **Parvin Zakeri-Milani**, Hadi Valizadeh, Ethics and Alternatives in Research, The second international congress of medical ethics, 22-24 November 2007 (1-3 Azar 1386), Tehran, Iran.

o **Parvin Zakeri-Milani**, Hadi Valizadeh, Ziba Islambulchilar, Comparative bioavailability study of two cefixime formulations administered orally in healthy male volunteers, Asian Association of Schools of Pharmacy, Makati, Philippines, October 25-28, 2007.

o **Parvin Zakeri-Milani**, Hadi Valizadeh, Comparative bioavailability study of two olanzapine formulations administered orally in healthy male volunteers, IPORSIP, September 12-14, Istanbul, Turkey.

o **Parvin Zakeri-Milani**, Hadi Valizadeh, Caco-2 cell monolayer: a model to be used in drug development, Novel Drug Delivery Systems (NDDS), 20-21 June 2007-Tehran-Iran.

o Valizadeh H., Garjani A., **Zakeri-Milani P.**, Barbari G., Barzegar-Jalali M., Ridgway D., In vitro-in silico methods to evaluate the bioequivalence of carbamazepine products, 10th Iranian Pharmaceutical Sciences Conference (IPSC 2006), Tehran, August 21-24, 2006.

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o Islambulchilar Z., **Zakeri-Milani P.**, Valizadeh H., A simple and rapid HPLC method for determination of furosemide, hydrochlorothiazide and phenol red: applicability to intestinal permeability studies, 10th Iranian Pharmaceutical Sciences Conference (IPSC 2006), Tehran, August 21-24, 2006.

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