



## **Simin Dadashzadeh (Pharm.D., Ph.D.)**

Professor of Pharmaceutics

### **Contact information**

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**Specialisation:** Biopharmaceutics & Pharmacokinetics

### **Academic positions**

1. Professor, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2010-Present
2. Associate Professor of Pharmaceutics, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2003-Oct 2010.
3. Assistant Professor of Pharmaceutics, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 1996 – 2002.
4. Instructor of Pharmaceutics, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 1991-1995.

### **Education**

Pharm. D: Tabriz University, Iran, 1985.

Ph.D.: School of Pharmacy, Tehran University of Medical Sciences, 1995.

Postdoc: University of Ottawa, Ottawa, Canada, 1996.

### **Research Interests**

- Nonotechnology
  - Design and development of drug delivery systems (liposomes, niosomes, micelles and polymeric nanoparticles) with emphasis on treatment of cancer and cardiovascular diseases.
- Biopharmaceutics and Pharmacokinetics
  - Enhancement of oral drug absorption using diverse formulation approaches.
  - Pharmacokinetics (absorption, distribution and elimination) of drugs and their metabolites.

### **Papers**

*\*Corresponding Author*

1. Chitosan gel-embedded moxifloxacin niosomes: An efficient antimicrobial hybrid system for burn infection.

Sohrabi S, Haeri A, Mahboubi A, Mortazavi A, Dadashzadeh S\*.

*International Journal of Biological Macromolecules*, 2016, 85:625-33. doi: 10.1016/j.ijbiomac.2016.01.013.

2. Potential of Liposomes for Enhancement of Oral Drug Absorption.

Daeihamed M, Dadashzadeh S\*, Haeri A, Akhlaghi MF.

*Current Drug Delivery*, 2016, Jan 15. [Epub ahead of print]

3. A Novel Combined Approach of Short-Chain Sphingolipids and Thermosensitive Liposomes for Improved Drug Delivery to Tumor Cells.

Haeri A, Pedrosa LR, Ten Hagen TL, Dadashzadeh S, Koning GA.

*Journal of Biomededical Nanotechnology*, 2016, 4:630-44.

4. EGFR targeted thermosensitive liposomes: A novel multifunctional platform for simultaneous tumor targeted and stimulus responsive drug delivery.

Haeri A, Zalba S, Ten Hagen TL, Dadashzadeh S, Koning GA.

*Colloids Surf B Biointerfaces*. 2016, 146:657-69. doi: 10.1016/j.colsurfb.2016.06.012.

5. Niosomal carriers enhance oral bioavailability of carvedilol: effects of bile salt-enriched vesicles and carrier surface charge.

Arzani G, Haeri A, Daeihamed M, Bakhtiari-Kaboutaraki H, Dadashzadeh S\*.

*International Journal of Nanomedicine*. 2015, 10:4797-813. doi: 10.2147/IJN.S84703.

6. A Simple and Sensitive HPLC Method for Fluorescence Quantitation of Doxorubicin in Micro-volume Plasma: Applications to Pharmacokinetic Studies in Rats

Daeihamed M, Haeri A, Dadashzadeh S\*.

*Iranian Journal of Pharmaceutical Research*, 2015,14(Suppl):33-42.

7. Effects of cyclosporine A on the hepatobiliary disposition and hepatic uptake of etoposide in an isolated perfused rat liver model.

Khezrian M, Sheikholeslami B, Dadashzadeh S, Lavasani H, Rouini M.

*Cancer Chemotherapy Pharmacology*, 2015, 75(5):961-8. doi: 10.1007/s00280-015-2719-6.

8. Marked effects of combined TPGS and PVA emulsifiers in the fabrication of etoposide-loaded PLGA-PEG nanoparticles: in vitro and in vivo evaluation.

Saadati R, Dadashzadeh S\*.

*International Journal of Pharmaceutics*, 2014, 464(1-2):135-44. doi:

10.1016/j.ijpharm.2014.01.014.

9. Preparation and characterization of stable nanoliposomal formulation of fluoxetine as a potential adjuvant therapy for drug-resistant tumors.

Haeri A, Alinaghian B, Daeihamed M, Dadashzadeh S\*.

*Iranian Journal of Pharmaceutical Research*. 2014, 13(Suppl):3-14.

10. A 16 Month Survey of Cyclosporine Utilization Evaluation in Allogeneic Hematopoietic Stem Cell Transplant Recipients.

Tavakoli Ardakani M, Tafazoli A, Mehdizadeh M, Hajifathali A, Dadashzadeh S.  
*Iranian Journal of Pharmaceutical Research*, 2016, 15(1):331-9.

11. Sirolimus-loaded stealth colloidal systems attenuate neointimal hyperplasia after balloon injury: A comparison of phospholipid micelles and liposomes.

Haeri A, Sadeghian S, Rabbani S, Anvari MS, Lavasanifar A, Amini M, Dadashzadeh S\*.  
*International Journal of Pharmaceutics*, 2013, 455(1-2):320-30. doi:  
10.1016/j.ijpharm.2013.07.003.

12. Accelerated blood clearance of PEGylated PLGA nanoparticles following repeated injections: effects of polymer dose, PEG coating, and encapsulated anticancer drug.

Saadati R, Dadashzadeh S\*, Abbasian Z, Soleimanjahi H.  
*Pharmaceutical Research*, 2013, 30:985-995.

13. Co-delivery of doxorubicin and PSC 833 (Valspodar) by stealth nanoliposomes for efficient overcoming of multidrug resistance.

Bajelan E, Haeri A, Vali AM, Ostad SN, Dadashzadeh S\*,  
*Journal of Pharmacy and Pharmaceutical Sciences*, 2012, 15(4): 568 – 582.

14. Metabolite parameters as an appropriate alternative approach for assessment of bioequivalence of two verapamil formulations.

Haeri A, Javadian B, Saadati R, Dadashzadeh S\*  
*Iranian Journal of Pharmaceutical Research*, 2014, 13(2):383-9.

15. PEGylated estradiol benzoate liposomes as a potential local vascular delivery system for treatment of restenosis.

Haeri A, Sadeghian S, Rabbani S, Anvari MS, Erfan M, Dadashzadeh\* S.  
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16. Use of remote film loading methodology to entrap sirolimus into liposomes: Preparation, characterization and in vivo efficacy for treatment of restenosis.

Haeri A, Sadeghian S, Rabbani S, Anvari MS, Boroumand MA, Dadashzadeh S\*,  
*International Journal of Pharmaceutics*, 2011; 414:16-27.

17. Enhanced Permeability of Etoposide across Everted Sacs of Rat Small Intestine by Vitamin E-TPGS.

Parsa AH, Saadati R, Abbasian Z, Azad Aramakib S, Dadashzadeh S\*  
*Iranian Journal of Pharmaceutical Research*, 2013, 12: 35-44.

18. The Effect of PEG molecular weights on dissolution behavior of simvastatin in solid dispersions.

Bolourchian N, Mahboobian MM, Dadashzadeh S\*.  
*Iranian Journal of Pharmaceutical Research*, 2013, 12: 9-18

19. Simple and efficient HPLC-UV quantitation of etoposide and its cis-isomer in rat micro-volume plasma and tissue samples: Application to pharmacokinetic and biodistribution studies.

Saadati R, Dadashzadeh\* S,

*Journal of Liquid Chromatography & Related Technologies*, 2011, 34(18): 2130-2148.

20. Peritoneal retention of liposomes: Effects of lipid composition, PEG coating and liposome charge.

Dadashzadeh\* S, Mirahmadi N, Babaei MH, Vali AM,

*Journal of Controlled Release*, 2010; 148: 177-186.

21. Preclinical Pharmacokinetics of KBF611 a new antituberculosis agent in mice and rabbits and comparison with thiacetazone.

Mostafavi Shahab F, Kobarfard F, Shafaghi B, Dadashzadeh\* S.

*Xenobiotica*. 2010; 40(30): 225-34.

22. Effect of liposome size on peritoneal retention and organ distribution after intraperitoneal injection in mice.

Mirahmadi N, Babaei MH, Vali A.M, Dadashzadeh\* S.

*International Journal of Pharmaceutics*, 2010, 383:7-13.

23. Preparation and in vitro characterization of 9 nitrocamptothecin loaded long circulating nanoparticles for delivery in cancer patients.

Derakhshandeh K, Soheli M, Dadashzadeh S, Saghiri R.

*International Journal of Nanomedicine*. 2010, 5:463-471.

24. Further Stimulation of Cellular Immune Responses through Association of HPV-16 E6, E7 and L1 Genes in order to produce more Effective Therapeutic DNA Vaccines in Cervical Cancer Model.

Fazeli M, Soleimanjahi H, Dadashzadeh S.

*Iran J Cancer Prev*. 2015, 8(1):18-23.

25. LC determination of a novel COX-2 inhibitor in mouse plasma: application to preclinical pharmacokinetic studies.

Haeri A, Shahab F.M., Arfaee S, Zarghi A, Dadashzadeh S\*.

*Asian Journal of Chemistry* 2011, 23:3329-3333.

26. Simultaneous Determination of a New Antituberculosis Agent KBF-611 and its Deacetylated Metabolite in Mouse and Rabbit Plasma by HPLC: Application to Preclinical Pharmacokinetics.

Mostafavi Shahab F, Kobarfard F, Dadashzadeh\* S.

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27. 9-Nitrocamptothecin polymeric nanoparticles: cytotoxicity and pharmacokinetic studies of lactone and total forms of drug in rats.

Dadashzadeh\* S, Derakhshandeh K, Shirazi FH.

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28. <sup>99m</sup>Tc-HMPAO-labeled liposomes: an investigation into the effects of some formulation factors on labeling efficiency and in vitro stability.

Mirahmadi N, Babaei MH, Vali AM, Daha FJ, Kobarfard F, Dadashzadeh\* S.  
*Nucl Med Biol.* 2008; 35(3):387-92.

29. The effect of PEG coating on in vitro cytotoxicity and in vivo disposition of topotecan loaded liposomes in rats.

Dadashzadeh\* S, Vali AM, Rezaie M.  
*International Journal of Pharmaceutics.* 2008; 353(1-2):251-9.

30. Preparation, optimization and characterization of topotecan loaded PEGylated liposomes using factorial design,

Vali A M, Shafaghi B, Toliyat T, Dadashzadeh\* S.  
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31. pH-independent release of propranolol hydrochloride from HPMC-based matrices using organic acids.

Blourtchian N, Dadashzadeh S.  
*DARU* 2008;16(3) 136-142.

32. Serum and Saliva Theophylline Levels in Adult Outpatients with Asthma and Chronic Obstructive Pulmonary Disease (COPD): A Cross-Sectional Study.

Salamzadeh J, Dadashzadeh S, Habibi M, Estifaie S.  
*Iranian Journal of Pharmaceutical Research,* 2008; 7 (1): 83-87.

33. Encapsulation of 9-nitrocamptothecin, a novel anticancer drug, in biodegradable nanoparticles: factorial design, characterization and release kinetics.

Derakhshandeh K, Erfan M, Dadashzadeh\* S.  
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34. The effect of gender on the pharmacokinetics of verapamil and norverapamil in human.

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35. Comparative evaluation of carbamazepine release from single and bi-polymeric based matrices.

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36. Liquid chromatographic quantitation of the lactone and the total of lactone and carboxylate forms of 9-nitrocamptothecin in human plasma

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37. Simple and sensitive HPLC method for the simultaneous quantitation of the lactone and carboxylate forms of topotecan in human plasma.

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38. The effect of various surfactants on release behavior of procainamide HCl from ethylcellulose based matrices.

Bolourtchian N, Sattari Javid F, Dadashzadeh S,  
*Iranian. Journal of. Pharmaceutical. Research*. 2005; 1: 13-19.

39. Radiation dose rate and urinary activity in patients with differentiated thyroid carcinoma treated with radioiodine-131; a survey in Iranian population.

Shahhoseini S, Beiki D, Dadashzadeh S, Eftekhari M, Tayebi H,  
*Hell J Nucl Med* 2004;7(3): 192- 194.

40. Determination of radiation dose rates and urinary activity of patients received Sodium Iodide-131 for treatment of differentiated thyroid carcinoma.

Beiki D, Shahhoseini S, Dadashzadeh S, Eftekhari M, Tayebi H, Moosazadeh G.  
*The Iranian Journal of Nuclear Medicine*, 2004, 21: 1-13

41. Time dependent pharmacokinetics of albendazole in human.

Mirfazaelian A, Rouini MR, Dadashzadeh S.,  
*Biopharmaceutics and Drug Disposition*. 2003; 24(5): 199-204.

42. Determination of cyproterone acetate in plasma samples by high-performance liquid chromatography.

Zarghi A, Dadashzadeh S, Asgari A.  
*Boll Chim Farm*. 2003; 142(5):220-223.

43. Pharmacokinetics and comparative bioavailability of two diltiazem tablet formulations in healthy volunteers.

Dadashzadeh\* S, Zarghi A, Ebrahimian J.  
*DARU*. 2003; 11:14-18.

44. Radiation dose to the nuclear medicine nurses.

Sattari A, Dadashzadeh S., Nasiroghli G, Firoozabadi H,  
*Iranian Journal of Radiation Research* 2004, 2(2):59-62.

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Mirfazaelian A, Rouini MR, Dadashzadeh S.  
*Biopharmaceutics and Drug Disposition*. 2002; 23(9):379-383.

46. A high performance liquid chromatography method for simultaneous determination of albendazole metabolites in human serum.

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47. Effect of gender in the disposition of albendazole metabolites in humans

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48. Is alendazole sulphonation dose dependent in human ?

Rouini, M.R., Mirfazaelian, A., Dadashzadeh, S., Tabatabaiefar, M Daru, Vol.10, No.4, Year. 2002, Page:148-152 ,

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Dadashzadeh\* S, Vali AM, Rezagholi N.,  
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50.Which of the two main metabolites of alendazole is appropriate for bioequivalence studies ?

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*Journal of Pharmacy and Pharmacology*, Vol.52, Year. 2000, Page:84

51.Urinary excretion and external radiation dose from patients administered Tallium- 201 and Technetium-99m methoxy isobutyl isonitril.

Sattari A, Dadashzadeh S, Nasirogli G.  
*Radiation Protection Dosimetry*. 2001; 95 (1) : 59-61

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*Boll Chim Farm*. 2001; 140(6) : 458-461.

54.HPLC quantitation of diltiazem in plasma from man.

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*Pharmacy and Pharmacology Communications*. 2000; 6: 341-343.

55.An Isocratic HPLC system for simultaneous determination of theophylline and its major metabolites.

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*Journal of Pharmaceutical and Biomedical Analysis*. 1995; 13: 1507-1517.

### Memberships

- European Federation for Pharmaceutical Sciences (EUFEPS)
- American Nano Society
- Iranian Association of Pharmaceutical Scientists
- Iranian Society of Biopharmaceutics and Pharmacokinetics
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MEMBERSHIP IN COMMITTEES

- Board of Nanotechnology, Postgraduate Students, Ministry of Health and Medical Education, IRAN.
- Nanotechnology Standard Committee, Ministry of Health and Medical Education, IRAN.
- Supreme Council of Tissue Engineering and Nanotechnology Research Center, Shahid Beheshti University of Medical Sciences.
- Supreme Council of Pharmaceutical sciences Research Center, Shahid Beheshti University of Medical Sciences.
- Faculty Promotion Committee, Shahid Beheshti University of Medical Sciences.
- Research Committee, School of Pharmacy, Shahid Beheshti University of Medical Sciences.
- Faculty Educational Development Center, Shahid Beheshti University of Medical Sciences

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**Reviewer of**

- Journal of Chromatography B
- Biopharmaceutics and Drug Disposition
- International Journal of Pharmaceutics
- PDA Journal of Pharmaceutical Science and Technology
- Drug Development and industrial pharmacy
- Journal of Microencapsulation
- Iranian Journal of Pharmaceutical research
- DARU