



**Dr. Mohammadreza Sattari**  
**(M. Ghandforoush-Sattari)**

Associate Professor of Clinical Toxicology

---

## **Personal Details**

Address: Dept. Pharmacology & Toxicology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran

Email: [mrgsuk@yahoo.com](mailto:mrgsuk@yahoo.com), [gandsat@gmail.com](mailto:gandsat@gmail.com)

Phone. +98-411-3341315, +98-914-4192704

Fax. +98-411-3344798

## **Academic Qualifications**

- PharmD: 1992, in Pharmacy, from Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran
- Diploma: 2001, in Medical Toxicology, from School of Medicine, Cardiff University, Cardiff, UK
- Certificate in Biomedical Research Methods (2001): School of Medicine, Cardiff University, Cardiff, UK.
- PhD: 2005, in Clinical Pharmacology and Toxicology, from School of Medicine, Cardiff University, Cardiff, UK

## **Positions Held**

Member of Tabriz Hematology and Oncology Research Centre: 2007-now

Member of Tabriz Infectious and Tropical Diseases Research Centre: 2008-now

Member of Tabriz Neurosciences Research Centre: 2010-now

## **Research Experiences**

1. Study of the correlation between drug addiction and relationships (PharmD thesis, 1992)
2. Detection of organochlorines by Gas Chromatography (thesis supervision, 1995)
3. New methods for protection and treatment of addiction opiates (thesis supervision, 1997)
4. Studies on the optimum management of paracetamol poisoning (PhD thesis, 2005)
5. Comparison of the effects of social parameters on drug addiction between inmates of Qum and Tabriz prisons (thesis supervision, 2006)
6. Study of taurine as a biomarker of stroke (thesis supervision, 2008)

7. Study of taurine as a biomarker of recovery during withdrawal of opiates (thesis supervision, 2007)
  8. Study of the effects of probencid on the diagnostic laboratory tests of drug addiction (thesis supervision, 2007)
  9. Study of the masking effects of oral contraceptives on the diagnostic laboratory tests of drug addiction by thin layer chromatography (TLC) (thesis supervision, 2009)
  10. Study of taurine as a biomarker in lung cancer (thesis supervision, 2010)
  11. Investigation of the prevalence of tobacco smoking and its effect on education status among the students of Tabriz University of Medical Sciences in 2008 (thesis supervision, 2009)
  12. Investigation of the prevalence of drug abuse among the students of Tabriz University of Medical Sciences in 2008 (thesis supervision, 2009)
  13. Analgesia use and pain assessment in the intensive care unit (ICU) after heart surgery in Shahid Madani Hospital of Tabriz (Investigation of the prevalence of tobacco smoking and its effect on education status among the students of Tabriz University of Medical Sciences in 2008 (thesis supervision, 2010)
  14. Bioequivalence evaluation of sustained-release nitroglycerin tablet produced by Zahravi compared with an imported brand following administration of a single dose to healthy volunteers (research project, 2008)
  15. Study of contact with benzen as a risk factor of blood malignancies (thesis supervision, 2010)
  16. Study of plasma taurine level in active and passive smokers (thesis supervision, 2010).
  17. Study of the effect of taurine on the antibiotic effect of gentamycine against three bacterial species (thesis supervision, 2011)
  18. Study of the hepatoprotective effect of taurine in patients receiving carbamazepine (research project 2011)
  19. Evaluation of the changes in plasma concentrations of few free amino acids in ischemic and non-ischemic stroke patients (thesis supervision, 2011)
  20. Study of changes in plasma taurine concentration in acetaminophen overdose patients during their hospitalization (thesis supervision, 2010)
  21. Study of the prevalence of drug related liver failure in gastroenterology ward of Imam Reza hospital of Tabriz (thesis supervision, 2011)
  22. Study of the prevalence of drug related acute and chronic renal failure in nephrology ward of Imam Reza hospital of Tabriz (thesis supervision, 2011)
  23. The study of adverse reactions of vancomycine and aminoglycosides in the infectious diseases ward of Imam Reza and sina Hospitals of Tabriz between 1385 and 1390 (thesis supervision, 2011)
- 

## **Current Research**

1. Study of the effects of oral contraceptives on the serum levels of free morphine and codeine in healthy volunteers
2. Study of the protective effects of taurine against methotrexate-induced toxicity in the patients suffering from osteosarcoma
3. Study of the protective effects of taurine against drug-induced toxicity in the patients suffering from Acute Lymphoblastic Leukemia (ALL)
4. Study of the protective effects of taurine against carbamazepine-induced toxicity in the epileptic patients

5. Changes in plasma taurine concentrations in active and passive smokers
6. Ethics and pharmaceutical profession in the pharmacies of Tabriz
7. Study of the protective effects of taurine against drug-induced nephro and oto-toxicity in the patients receiving gentamycine
8. Changes in concentrations of some aminoacids in plasma in liver necrosis.
9. Study of the effects of oral contraceptives on the serum, urine, and hair levels of morphine in the rat

## Teaching Experiences

Toxicology, Forensic Medicine, Clinical trials, Medical terminology, Clinical Pharmacology, Hospital Pharmacy, Medical Ethics, and Ethics in Clinical Studies for Pharmacy (PhD, and general), Laboratory Sciences, Toxicology, and veterinary students

## Administrative Experiences

Manager of Toxicology Lab: 1994-1998

Manager of the Education Office of Faculty of Pharmacy: 1996

Manager of Pharmaceutical Sciences (Journal of Faculty of Pharmacy, Tabriz University of Medical Sciences)

## Publications

1. Mashayekhi SO, **Ghandforoush-sattari MR**, Hain RWD, Nixon LS (2007), **Morphine-6-glucuronide assay using a competitive ELISA assay**, *Journal of Faculty of Pharmacy*, Spring: 51-60
2. **Ghandforoush-Sattari M** and Mashayekhi S (2007). **Plasma taurine concentration as a biomarker of liver damage in paracetamol poisoning**. *Toxicology Letters*, Volume 172, Supplement 1, Page S132
3. **Ghandforoush-Sattari M**, Mashayekhi SO, Thompson JP, and Routledge PA (2007). **Admissions to the Cardiff Poisons Unit involving paracetamol poisoning (1989–2002)**. *Toxicology Letters*, Volume 172, Supplement 1, Page S229
4. **Ghandforoush-Sattari M**, Mashayekhi SO (2008), **Evaluation of taurine as a biomarker of liver damage in paracetamol poisoning**, *European Journal of Pharmacology*, 581: 171-176
5. **Ghandforoush-Sattari M**, Mashayekhi SO (2008). **A rapid determination of histamine and 3-methylhistamine in human plasma by high performance liquid chromatography**. *Toxicological & Environmental Chemistry*; 90 (4): 787 - 793
6. **Ghandforoush-Sattari M**, Mashayekhi SO (2008). **Admissions to the Cardiff Poisons Unit involving paracetamol poisoning (1989-2002)**, *Toxicological & Environmental Chemistry*; 90 (4): 663 - 671

7. Mashayekhi SO, **Ghandforoush-Sattari MR**, and Hain RDW (2008). **Rapid and sensitive quantitation of morphine using HPLC with electrochemical detection.** *Journal of Clinical Pharmacy and Therapeutics*; 33: 1–9
8. Mashayekhi SO, **Ghandforoush-Sattari M**, Routledge PA, Hain RDW (2009). **Pharmacokinetic and Pharmacodynamic Study of Morphine and Morphine 6-Glucuronide after Oral and Intravenous Administration of Morphine in Children with Cancer.** *Biopharmaceutics & Drug Disposition*; 30(3): 99-106
9. Mashayekhi S, **Ghandforoush-Sattari M**, Rahimipour A (2010). **Serum lipase concentration in end stage renal patients receiving hemodialysis.** *Saudi Journal of Kidney Diseases and Transplantation*; 21(6): 1143-1144
10. Mashayekhi S, Dilmaghanizadeh M, Fardiazar Z, Bamdad-Moghadam R, **Ghandforoush-Sattari M**. **Study of awareness among pregnant women of the effects of drugs on the fetus and mother in Iran.** *Health Policy* (2008), doi:10.1016/j.healthpol.2008.11.011
11. **Ghandforoush-Sattari M**; Mashayekhi S (2008). **Pharmacokinetics of oral taurine in healthy volunteers.** *Pharmacy World & Science*; 30(5): 724
12. **Ghandforoush-Sattari M**, Mashayekhi SO, Nemati M, Routledge PA (2009). **A Rapid Determination of Taurine in Human Plasma by LC.** *Chromatographia*; 69 (11-12):1427-1430
13. **Ghandforoush-Sattari M**, Mashayekhi SO, Nemati M, Seydi A, Azadi H (2010). **Changes in plasma taurine concentration during a period of heroin detoxification.** *Toxicological & Environmental Chemistry*; 92(8): 1505 - 1512
14. **Ghandforoush-Sattari M**, Mashayekhi SO, Krishna CV, Thompson JP, Routledge PA (2010). **Pharmacokinetics of oral taurine in healthy volunteers.** *Journal of Amino Acids*; Article ID 346237:1-5
15. Mashayekhi S.O., **Ghandforoush-Sattari M.**, Buss D.C., Routledge P.A., Hain R.DW (2010). **Impact of anti-cancer drugs and other determinants on serum protein binding of morphine 6-glucuronide.** *DARU*; 18(2): 107-113
16. **Ghandforoush-Sattari M**, Zakeri-Milani P, Mashayekhi S, Valizadeh H (2011). **Determination of glyceryl trinitrate and its two main metabolites in human plasma.** *Arzneimittel Forschung (Drug Research)*; 2011;61(3):141-7.
17. **Ghandforoush-Sattari M**, Mashayekhi SO, Nemati M, Ayromlou H (2011). **Changes in plasma concentration of taurine in stroke.** *Neurosci Lett.* 8;496(3):172-5.

18. Mashayekhi SO, Sattari MR, Routledge PA (2010). **Evidence of active transport involvement in morphine transport via MDCKII and MDCK-PGP cell lines.** *Res Pharm Sci*; 5(2):99-106.
19. Mashayekhi SO, Ghandforoush-Sattari M, Rahimipour A (2010). **Serum lipase concentration in chronic hemodialysis patients.** *Saudi J Kidney Dis Transpl*;21(6):1143-4.
20. Mashayekhi SO, Dilmaghanizadeh M, Fardiazar Z, Bamdad-Moghadam R, Ghandforoush-Sattari M (2011). **Beliefs and practices of Iranian pregnant mothers regarding vitamins and minerals .** *EMHJ* ; 17 (3):203-207
21. Mashayekhi SO, Ghandforoush-Sattari M, Bagdadchi ME, Khayri M (2011). **Patients' report of statins use and side-effects in a sample of hospitalized cardiac patients in the Islamic Republic of Iran.** *EMHJ*; 17 (5)
22. Mashayekhi SO, Dilmaghanizadeh M, Sattari MR (2011). **A survey on the consumption, knowledge and attitude of pregnant women toward the effects of folic acid on pregnancy outcome in Tabriz.** *Iranian Journal of Child Neurology*; 5(1):33-40
23. Islambulchilar M, Sattari MR, Sardashti M, Lotfipour F (2011). **Effect of Taurine on the antimicrobial efficiency of Gentamicin.** *Advanced Pharmaceutical Bulletin*; 1(2): 69-74

## **Presentations**

1. Ghandforoush-Sattari M (2000); **An improved measurement of N-acetylcysteine in human plasma by high performance liquid chromatography.** *First Iranian Medical Sciences Postgraduate Students Conference, August 20-22, 2000, Tehran-Iran*
2. Ghandforoush-Sattari M (2002); **A modified method for the determination of taurine in human plasma by high performance liquid chromatography.** *9<sup>th</sup> Iranian Student Seminar in Europe (Birmingham)*
3. Ghandforoush-Sattari M (2002); **Study of taurine as a biomarker of paracetamol poisoning.** *17<sup>th</sup> Annual Postgraduate Research Day, UWCM.*

4. Ghandforoush-Sattari M, Thompson JP, Krishna CV, Routledge PA (2006); **Effects of Pre-treatment with Naproxen on the Tolerability of N-acetylcysteine (NAC) in Healthy Volunteers**, 10<sup>th</sup> Iranian Pharmaceutical Sciences Congress, August 21-24, 2006, Tehran, Iran
5. Ghandforoush-Sattari M, Mashayekhi S (2006); **Toxicology of Ecstasy**, National Congress of Ecstasy, December 21, 2006, Astara, Iran
6. Ghandforoush-Sattari M, Thompson JP, Krishna CV, Routledge PA (2006); **Effects of Pre-treatment with Naproxen on the Tolerability of N-acetylcysteine (NAC) in Healthy Volunteers**, 6<sup>th</sup> International Congress of Turkish Society of Toxicology, November 2-5, 2006, Antalya, Turkey
7. Ghandforoush-Sattari MR, Thompson JP, Mashayekhi SO, Routledge PA, **Admissions to the Cardiff Poisons Unit Involving Paracetamol Poisoning (1989-2002)**, 9<sup>th</sup> Iranian congress of Toxicology, May 15-17, 2007, Shiraz, Iran
8. Ghandforoush-Sattari M, Thompson JP, Krishna CV, Routledge PA (2006); **Effects of Pre-treatment with Naproxen on the Tolerability of N-acetylcysteine (NAC) in Healthy Volunteers**, XI International Congress of Toxicology, July 15-19, 2007, Montreal, Canada
9. Ghandforoush-Sattari M, Krishna CV, Mashayekhi S (2007); **Study of pharmacokinetics of oral taurine in healthy volunteers**, Congruence of Pharmaceutical Sciences, Practice and Research, 25-28.Oct.2007, Manila-Philippines
10. Mashayekhi S, **Ghandforoush-Sattari M**, Hain RD, Gumbleton M. **Effects of Various Transporters in Morphine and Morphine-5-Glucuronide Transport**. Asian Association of Schools of Pharmacy, 3<sup>rd</sup> Conference, Oct. 25-28, 2007, Manila-Philippines.
11. **Ghandforoush-Sattari MR**, Valizadeh H, Zakeri-Milani P, Mashayekhi SO. **Bioequivalence Comparison of Two Brands of Oral Sustained-Release Nitroglycerin Tablets**. 63<sup>th</sup> FIP Congress of Pharmacy and Pharmaceutical Sciences, 29<sup>th</sup> Aug – 4<sup>th</sup> Sep. 2008. Basel, Switzerland
12. **Ghandforoush-Sattari MR**, Mashayekhi SO, Nemati M, Azadi H. **Can Taurine Be a Biomarker of Recovery during Withdrawal of Heroin?** 63<sup>th</sup> FIP Congress of Pharmacy and Pharmaceutical Sciences, 29<sup>th</sup> Aug – 4<sup>th</sup> Sep. 2008. Basel, Switzerland
13. Mashayekhi SO, **Ghandforoush-Sattari MR**, Hain RDW, Routledge PA. **Study of Morphine Pharmacodynamic in Children with Cancer: Analgesic effects and side effects**. The 7<sup>th</sup> Scientific Annual Meeting of the Iranian Pain Society, 2007.
14. Mashayekhi SO, **Ghandforoush-Sattari MR**, Hain RDW, Gumbleton M. **Morphine-6-glucuronide; active transport various transport systems**, 3rd Iranain Conference of Novel Drug Delivery Systems, 21st – 22nd June 2007, Tehran – Iran

15. Mashayekhi SO, **Ghandforoush-Sattari MR**, Hain RDW, Gumbleton M. **Morphine; active transport via MDCKII and MDCK-PGP cell lines.** 3rd Iranain Conference of Novel Drug Delivery Systems, 21st – 22nd June 2007, Tehran – Iran.
16. Mashayekhi S, **Ghandforoush-Sattari M**, Hain R, Gumbleton M. **Are morphine and morphine-6-glucuronide P-Glycoprotein substrates?** Asian Association of Schools of Pharmacy, 3<sup>rd</sup> Conference, Oct. 25-28, 2007, Manila-Philippines.
17. Mashayekhi SO, **Ghandforoush-Sattari MR**, **Clinical trials of medicines in children.** The 2<sup>nd</sup> international congress of Medical Ethics in Iran. 16-18 April 2008.
18. Mashayekhi SO, **Ghandforoush-Sattari MR**, **The use of off label medicines in children.** The 2<sup>nd</sup> international congress of Medical Ethics in Iran. 16-18 April 2008.
19. Mashayekhi SO, **Ghandforoush-Sattari MR**, **Participating in clinical trials.** The 2<sup>nd</sup> international congress of Medical Ethics in Iran. 16-18 April 2008.
20. Mashayekhi SO, Dilmaghanizadeh M, Fardiazar Z, Bamdad-Moghadam R, **Ghandforoush-Sattari MR**, **Study of awareness among pregnant women of the effects of vitamins and minerals supplements on the fetus and mother in Northwest of Iran.** 68th FIP World Congress of Pharmacy and Pharmaceutical Sciences. Basel Switzerland. 29<sup>th</sup> Aug- 4<sup>th</sup> Sep 2008.
21. Mashayekhi S., Maleki N., **Ghandforoush-Sattari MR.**, Nayebi A., Parvizpour A., Alizadeh M., Azarmi Y., Zakeri P., **Establishment Of Hospital Pharmacy Internship For Pharmacy Students.** 10<sup>th</sup> National Medical Sciences Education Seminar, 5-7 May, 2009, Shiraz, Iran.
22. Mashayekhi SO., **Ghandforoush-Sattari M.**, **Study of awareness among pregnant women of the effects of herbal medications on the fetus and mother in Northwest of Iran.** Traditional and complementary medicines. 27-30 Oct. 2008, Sari, Iran.
23. **Ghandforoush-Sattari MR**, Mashayekhi SO., **Ethics and Pharmaceutical Industry.** 10<sup>th</sup> Asian Bioethics Conference and Fourth Unesco Asia-Pacific School of Ethics Roundtable. 26-29 Apr. 2009, Tehran, Iran
24. **Ghandforoush-Sattari MR**, Mashayekhi SO., **Deficiencies and Difficulties in Performance of the Medical Ethics Declarations.** 10<sup>th</sup> Asian Bioethics Conference and Fourth Unesco Asia-Pacific School of Ethics Roundtable. 26-29 Apr. 2009, Tehran, Iran
25. **Ghandforoush-Sattari MR**, Mashayekhi SO., **Ethics, Negligence and Medicines.** 10<sup>th</sup> Asian Bioethics Conference and Fourth Unesco Asia-Pacific School of Ethics Roundtable. 26-29 Apr. 2009, Tehran, Iran
26. **Ghandforoush-Sattari MR**, Mashayekhi SO, Nemati M, Seydi S, Azadi H. **Changes in plasma taurine concentration during withdrawal of heroin.** 10<sup>th</sup>

Iranian Congress of Toxicology & Poisoning, 18-20 May 2009. Shahid Beheshti University of Medical Sciences, Tehran, Iran

27. **Ghandforoush-Sattari M**, Valizadeh H, Zakeri-Milani P, Mashayekhi S. **A developed method for determination of nitroglycerin's metabolites in human plasma.** 4<sup>th</sup>. Asian association of schools of pharmacy conference (AASP). 10-13 June 2009. Penang, Malaysia
28. Mashayekhi SO, **Ghandforoush-Sattari M**, Maleki N, Asadi M, Islambulchilar M, Parvizpour A, Alizadeh A. **Learning topics of pharmacy doctorate students during hospital pharmacy internship.** 4<sup>th</sup>. Asian association of schools of pharmacy conference (AASP). 10-13 June 2009. Penang, Malaysia
29. Mashayekhi SO, **Ghandforoush-Sattari M**, Baghdadchi ME, Kheyri M. **Statins use and side effects in a cardiac hospital in Iran.** 4<sup>th</sup>. Asian association of schools of pharmacy conference (AASP). 10-13 June 2009. Penang, Malaysia
30. **Ghandforoush-Sattari M**, Valizadeh H, Zakeri-Milani P, Mashayekhi S. **Bioequivalence study of an Iranian brand of oral sustained-release nitroglycerin compared with a similar imported one .** 4<sup>th</sup>. Asian association of schools of pharmacy conference (AASP). 10-13 June 2009. Penang, Malaysia
31. **Ghandforoush-Sattari M**, Mashayekhi S, Mirkazemi R, Sanaat Z, Esfahani A. **Could Taurine be as a biomarker in lung cancer?** 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, 2-5 Aug. 2010. Zanjan University of Medical Sciences, Zanjan, Iran
32. Mashayekhi S, Khoshniat S, **Ghandforoush-Sattari M**, Nikanfar A, Hosseynpour Feizi A. **Study of adverse effects of anticoagulating factors replacement in haemophilia patients.** 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, 2-5 Aug. 2010. Zanjan University of Medical Sciences, Zanjan, Iran
33. Mashayekhi S, Shahidi M, **Ghandforoush-Sattari M**. **Evaluation of pharmacy students knowledge on various aspects of HIV/AIDS.** 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, 2-5 Aug. 2010. Zanjan University of Medical Sciences, Zanjan, Iran
34. Mashayekhi S, Khoshniat S, Nazari M, Dolatkah R, **Ghandforoush-Sattari M**. **Study of adverse effects of medication used in treatment of hemophilia patients.** 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, 2-5 Aug. 2010. Zanjan University of Medical Sciences, Zanjan, Iran
35. **Ghandforoush-Sattari M**, Mashayekhi S. **Why drugs should be prohibited in Islam?** 12<sup>th</sup> Iranian Pharmaceutical Sciences Congress, 2-5 Aug. 2010. Zanjan University of Medical Sciences, Zanjan, Iran



36. **Ghandforoush-Sattari M**, Mashayekhi S, Sanaat Z, Esfahani A. **Taurine in lung cancer**, MASCC/ISOO 2011 International Symposium on Supportive Care in Cancer, 23-25 June 2011, Athens, Greece
37. Mashayekhi S, Sheykhi D, Nikanfar A, Hosseinpour-Faizi A, **Sattari M**. **Cost of thalassemia treatment in Iran**, 10<sup>th</sup> Annual International Conference on Health Economics, Management & Policy, 27-30 June 2011, Athens, Greece

Referees:

1. Dr. **Ali Nokhodchi** (PharmD, PhD), Senior Lecturer in Pharmaceutics

**Phone:** +44 (0)1634 20 2947

**Email:** [a.nokhodchi@kent.ac.uk](mailto:a.nokhodchi@kent.ac.uk)

**Address:** Medway School of Pharmacy, The Universities of Greenwich and Kent at Medway, Anson Building, Central Avenue, Chatham Maritime, Chatham, Kent, ME4 4TB, UK

2. Professor **Amin Rostami** (PharmD, PhD, FCP), Professor of Systems Pharmacology

**Phone:** +44 (0)161 306 0634

**Fax:** +44 (0)161 275 8349

**Email:** [amin.rostami@manchester.ac.uk](mailto:amin.rostami@manchester.ac.uk)

**Address:** School of Pharmacy and Pharmaceutical Sciences, Stopford Building, Oxford Road, Manchester, M13 9PT, UK

3. Professor **Philip A. Routledge** (MB, MD, MRCP, FRCPE, FBTS), Professor of Clinical Pharmacology

**Phone:** +44 (0)29 207 42051 Extension: 42051

**Email:** [routledgepa@cardiff.ac.uk](mailto:routledgepa@cardiff.ac.uk)

**Address:** Cardiff University School of Medicine, UHW Main Building, Heath Park, Cardiff CF14 4XN, UK