

Prof. Mahran S. Abdel-Rahman
(Biography- 2018)



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PERSONAL INFORMATION

Date of birth	5, June, 1961
E-mail	Mahran44@hotmail.com
Current address	Egypt, Assiut, Assiut University, Faculty of Medicine, Medical Pharmacology Department.

WORK HISTORY

May 2017-present	Professor of pharmacology and Toxicology, Faculty of Medicine, Assiut University, Assiut, Egypt & Part Time in NUB and Sohag Universities.
June 2015-May 2017	Associate Professor of pharmacology and Toxicology, Faculty of Medicine, Assiut University, Assiut, Egypt.
Feb 2009- June 2015	Associate Professor pharmacology & Toxicology, College of Pharmacy, Taibah University, KSA.
Sept 2004-Feb 2009	Associate Professor of pharmacology and Toxicology, Faculty of Medicine , Assiut University, Assiut, Egypt.
Feb 1997-August 2004	Lecturer and Head of Pharmacy Department, College of Health Sciences, Dammam, KSA.
June 1994-Feb1997	Lecturer of pharmacology and Toxicology, Faculty of Medicine, Assiut University, Assiut, Egypt.

Sept 1991-Nov 1993	Scholarship for Studying Ph.D. in Germany at Clinical Pharmacology Department, University Clinic Frankfurt/Mainz, Financially Supported by Ministry of High Education, Egypt (Channel system).
Nov 1989-Sept 1991	Assistant Lecturer of pharmacology and Toxicology, Faculty of Medicine, Assiut University, Assiut, Egypt.
Sept 1985-Nov 1989	Demonstrator of pharmacology and Toxicology, Faculty of Medicine, Assiut University, Assiut, Egypt.

EDUCATION

June 1994	Ph.D. pharmacology, Faculty of Pharmacy, Assiut University, Assiut, Egypt (Channel system with Germany).
Nov 1989	M. Sc. Pharmacology, Faculty of pharmacy, Assiut University, Assiut, Egypt
June 1984	B.Sc. pharmacy and pharmaceutical sciences, Faculty of pharmacy, Assiut University, Assiut, Egypt

PROJECTS CONTRIBUTING:

Project no.4121/ 434 (2013-2015-Co-I)	Role of menaquinone-7 in in rheumatoid arthritis patients (funded by Taibah University, Deanship of Scientific Research, Saudi Arabia (Finished & published).
Project no 4130/471 (2013-2015-Co-I)	Detection and Monitoring of Reactive Oxygen and Nitrogen Free Radical Species in patients with Rheumatoid Arthritis' and The Role of Antioxidants in Disease Management (funded by deanship of scientific research in Taibah University KSA, Finished & Published).
Project no 4132/471 (2013-2015 – Co-I)	Therapeutic Drug Monitoring of Vitamin K Homologues in Rheumatoid Arthritis' Patients and Its Role in Disease Prevention in Saudia Arabia (Funded by deanship of scientific research in Taibah University (Finished & Published).
Project no SRU-NT -05-12-02 (Co-I)	Innovative nanomedicines therapy for safe and effective treatment of erectile dysfunction (This project funded by King Abdulaziz city in Saudi Arabia (This project was stopped because of no enough money to complete the project).
Project number12667 (PI)	The potential utility of "Stevia", a newly introduced natural sweetener as an adjunct agent in treating Diabetes Mellitus (in Progress). This project is funded by STDF.

TEACHING EXPERIENCE

- 1) **BASIC & CLINICAL PHARMACOLOGY:** Undergraduate students (Colleges of Pharmacy, Medicines, Dentistry and nursing). Assiut University, Assiut, Egypt.
- 2) **TOXICOLOGY & FORENSIC CHEMISTRY:** Undergraduate students. (Colleges of Pharmacy, Medicines, Dentistry and Nursing). Assiut University, Assiut, Egypt.
- 3) **BIOASSAY DRUG SCREENING & BIOSTATISTICS:** Undergraduate students (Colleges of Pharmacy). Assiut University, Assiut, Egypt.
- 4) **CLINICAL PHARMACOLOGY:** Undergraduate students. (college of Pharmacy, NUB, and Sohag Universities, Egypt).
- 5) **BASIC & CLINICAL PHARMACOLOGY:** Undergraduate students (Colleges of Pharmacy, Medicines, Dentistry and nursing). Taibah University, Al-Madinah Al-Munwarrah, KSA and College of Pharmacy Sohage University.
- 6) **POISONS & FORENSIC CHEMISTRY:** Undergraduate students (Colleges of Pharmacy), Nahda University (NUB), BeniSweef, Egypt.
- 7) **BIOSTATISTICS:** Undergraduate students (Colleges of Pharmacy), Nahda University (NUB), BeniSweef, Egypt.
- 8) **ADVANCED PHARMACOLOGY:** M.Sc. and Ph.D. Postgraduate students, in Pharmacology Departments, Assiut University, Assiut, Egypt.
- 9) **MOLECULAR PHARMACOLOGY:** M.Sc. and Ph.D. Postgraduate students, in Pharmacology Departments, Assiut University, Assiut, Egypt.
- 10) **CLINICAL PHARMACOLOGY:** Postgraduate students (Colleges of Medicines, and nursing). Assiut University, Assiut, Egypt; In specialty: *Orthopedics, General surgery, Vascular surgery, Chest, Internal Medicine, Urology, Cardiology, Neurology and psychology, Anesthesiology, Emergency Medicine, Nephrology, Family Medicine and others.*
- 11) **CLINICAL PHARMACOLOGY:** Postgraduate students (Colleges of Medicines). Sohag University, Sohag, Egypt; In specialty: *Orthopedics, General surgery, Vascular surgery, Chest, Internal Medicine, Urology, Cardiology, Neurology and psychology, Anesthesiology, Pediatrics, Nephrology, etc.*

MAJOR RESEARCH LANE OF INTEREST

1. Innovations of new drugs for therapeutic intervention in serious medical conditions as rheumatoid arthritis, cardiac arrhythmias, drug-dependence and Alzheimer's.
2. Pharmacokinetic interactions with plasma proteins.
3. Screening of new drugs for cardiovascular disease.
4. Participate in establishing TDM Labs for drug concentration monitoring in Assiut University Hospitals, Assiut, Egypt.
5. Management of multidrug-resistance encountered with cancer chemotherapy.
6. Identification of the mechanism of toxicity of certain toxicants as glue.
7. Characterization of physicochemical properties of some pharmacologically active compounds.
8. Investigation of drug –herbal interactions of currently used herbs and drugs.
9. Toxicity of heavy metals encountered in the environments.

CONTRIBUTIONS IN BOOKS

1. **Spotlight in Pharmacology**, Volume II: Chemotherapy and Hormones. Editors: Fikry H. Osman, Adel Gomaa, Hussein El-Bitar and Mahran Shaker (1997) publisher Ghobashy Press.
2. **Up to date in Pharmacology**: Volume I: Editors: Mahran S. Abdel-Rahman, Mohamed M Elbadr and Mohammed Salem Harredy (2016),
3. **Up to date in Pharmacology**: Volume II: Editors: Mahran S. Abdel-Rahman, Mohamed M Elbadr, Mohammed Salem Harredy and Lobna Ali (2017), Publisher: New Samaka Print. Assiut.Egypt
4. **Up to date in Basic and Clinical toxicology**. Editors: Mahran S. Abdel-Rahman, Mohamed M Elbadr, Mohammed Salem Harredy, Lobna Ali and Ahmed Abdel-Dayem (2017). New Samaka Print. Assiut.Egypt
5. **Up to date in Dental Pharmacology**: Editors: Mahran S. Abdel-Rahman and Mohamed M Elbadr (2017). Publisher: New Samaka Print. Assiut.Egypt.
6. **Up to date in Medical Terminology**: Editors: Mahran S. Abdel-Rahman and Mohamed M Elbadr (2017). Publisher: New Samaka Print. Assiut.Egypt.
7. **Hand book of clinical cases and practical activities**. Editors: Mostafa M Hamdy, Mahran S. Abdel-Rahman and Mohamed M Elbadr (2018)
8. **Drug valuation, Biostatistics and Drug Screening**: Editors: Mahran S. Abdel-Rahman, Mohamed M Elbadr and Mohammed Salem Harredy (2018). Publisher: New Samaka Print. Assiut.Egypt.
9. **Handbook of bioassay, drug screening and biostatistics**: Editors: Mahran S. Abdel-Rahman, Mohamed M Elbadr and Mohammed Salem Harredy (2018). Publisher: New Samaka Print. Assiut.Egypt.

PUBLICATIONS

1. El-Bitar H.I., Affi A.M. and **Abdel-Rahman M.S.**: Cardiac effects of certain antidepressants. *The XI Sci. Confer. Egypt. Soc. Basic Med Sci., El_Minofia, Egypt*, March 1989.
2. **M. Abdel-Rahman**, F. Wosch, S. Harder and B.G. Woodcock: Interaction between verapamil and vincristine binding to plasma proteins. *Int. J Clin. Pharmacol. Ther. And Toxicol.* 1992, 30 (11): 536.
3. B.G. Woodcock, **M. Abdel-Rahman**, F. Wosch and S. Harder: Effect of D,L-verapamil, Verapamil enantiomers and verapamil metabolites on the binding of vincristine to α_1 -acid glycoprotein. *Eur. J. Cancer.* 1993, 29 A (4): 559- 561.
4. B.G. Woodcock, **M. Abdel-Rahman**, S. Harder and W. Ganser: Kumulation von

vincristine bei intakten zellen und ihre modulation durch verapamil und alpha1-Glykoprotein. **3rd annual meeting of clinical pharmacology Society, Bad-Nauheim, Germany**, September 1993.

5. **M. Abdel-Rahman**, S. Harder, C. Lucas and B.G. Woodcock: Comparison of the effects of verapamil and S₉₇₈₈ on the binding of vincristine to alpha₁-acid glycoprotein. **3rd annual meeting of clinical pharmacology Society, Bad-Nauheim, Germany**, September 1993.
6. **M. S. Abdel-Rahman**, A. Assi, F. Osman and B.G. Woodcock: Effect of verapamil and alpha₁-acid glycoprotein on vincristine accumulation by lymphocytes from CLL patients and cell lines. **J. Egypt. Soc. Pharmacol. Exp. Ther.** 1995, 14 (1): 495-519.
7. Safwat M. Mangoura, Mohamed M. Khalifa, Hassan H. Abou-Rahma and **Mahran S. Abdel-Rahman**: The effects of some heavy metals on the hepatic microsomal coumarin hydroxylase activity in intact and gonadectomized mice. **J. Egypt. Soc. Toxicol.** 1996, 17: 57-62.
8. **Mahran S. Abdel-Rahman**, Essam E. Abdel-Hakim, Zeinareh and Safwat Mangoura: Experimental evaluation of anticonvulsant properties of propofol in tow models of seizures in laboratory mice. **Egypt. J. Anesth.** 1996, 12 (1): 1-11
9. E El-Desoky, **M. S. Abdel-Rahman**, O.M. Moustafa, M.R. kandil and A.M. Afifi: Optimization of antiepileptic drug therapy through measurement of plasma level of antiepileptic drugs (AEDS). **Ther. Drug Monit J.** 1997, 19 (5): 567 Abstract no 79. and in **J. Egypt Soc. Pharmacol. Exp. Ther** 1997, 16 (2): 747-763.
10. Safia A. Tohami, Eman M. Khedr and **Maharn S Abdel-Rahman**: Effect of epilepsy and antiepileptic drugs on cognitive function, P2 and P3 components in newly diagnosed epilepsies. **Egypt. J Neurol Psychiat Neurosurg**, 1997, 34 (1): 89-96.
11. Mamdouh M. Anwar and **Mahran S. Abdel-Rahman**: Effect of propofol on perception of pain in mice: mechanism of action. **Comp. Biochem. Physiol.** 1998, 120A (2): 249-253.
12. **Mahran S. Abdel-Rahman**, Ehab S. El-Desoky, Salah-Eldin Amry, and Abdel-Halim M. Afifi: Serum level monitoring of digoxin in cardiac patients attending Assiut university hospitals: utility in therapy optimization. **Assiut Med. J.** 1999, 23 (3): 25-34.
13. Mahmoud M. Abdel-Rahman, **Mahran S. Abdel-Rahman**, Abdelazim Assi and Saida Abdel-Ragal Aly. Modulation of the antiepileptic activity of sodium valproate by lithium chloride against pentylene-tetrazole and strychnine-induced seizures in mice. **Assiut Med. J.** 1999, 23 (3): 59-72.
14. Assi Abdel-Azim and **Abdel-Rahman Mahran S.** Analgesic effects of Tramadol-Diclofenac combination and their interaction with psychostimulant drugs in mice and rats. **11th world congress on pain.** August 21-26, 2005, Sydney, **Australia.** IASP press, Abstract number 571-P177.
15. Sohier M. Kamel, Saida A. Ali, M.M. Abdel-Rahman and **Mahran S, Abdel-Rahman.**

Modulation of antiepileptic activity of sodium valproate by lithium chloride against kainic acid and bicuculline-induced seizures. **Assiut Med. J.**, July 2001, 25 (3): 23-38.

16. Abdel-Azim A. Assi & **Mahran S. Abdel-Rahman**. Analgesic effects of tramadol-diclofenac combination and their interaction with psychostimulant drugs in mice and rats. **11th World Congress on Pain**, 2005, Aug 21-26, Sydney, Australia, International association for the study of pain (IASP Press).
17. **Mahran S. Abdel-Rahman**, Enjy A. Abdel-Rahman and Abelazeem Assi. Possible pharmacodynamic interactions between CNS stimulant and analgesics. **Assiut Med. J** 2008, 32 (1): 237-249..
18. Adel G. El-Shemi, **Mahran S. Abd El-Rahaman** and Mohamed H. Abd El-Sattar. Renoprotective effects of thymoquinone, a compound derived from nigella sativa oil, on gentamicin-induced nephrotoxicity in rats. **Assiut Med J.** 2009, 33 (3):11-22.
19. Adel Galal A. El-Shemi and **Mahran S. Abd El-Rahaman**. Hepatoprotective effects of rolipram on Experimental murine model of immune-mediated Fulminant hepatitis.. **Assiut Med. J.** 2009. 33 (3): 23-32.
20. Basel A. Abd El-Wahab, **Mahran S. Abd El-rahman**, Mohamed M. Abd El-latif. Enhanced delivery of baclofen through blood brain barrier using poly (butyl cyanoacrylate) nanoparticles coated with polysorbate-80. **The International Conference for Nanotechnology Industries**. King Saud University, Riyadh 5-7/4/2009
21. Alaa-Eldin A. Elkoussi, Marwa A Ahmed and **Mahran S. Abdel-Rahman**. Pharmacological and toxicological evaluation of the locally abused Glue (Kolla) in rats. **Assiut Med. J.** 2010, 34 (3): 59-70.
22. Enas Nashaat, Abdel-Alim M Abdela-Alim, Samial Galal, Abdel-Naser Al-Shorbagy and **Mahran S. Abdel-Rahman**. Synthesis of new 4,5-3(2H) pyridazinone derivatives and their cardiotoxic, hypotensive and platelet aggregation inhibition activities. **Arch. Pharm. Res.**, 2010, 33 (1): 25-36.
23. Ahmed O. Abdel-Zaher, **Mahran S. Abdel-Rahman** and Fahmy M El-Wasae. Blockade of nitric oxide overproduction and oxidative stress by Nigella sativa oil attenuates morphine-induced tolerance and dependence in mice. **Neurochem. Res.** 2010, 35: 1557-1565.
24. Ahmed O Abdel-Zaher, **Mahran S Abdel-Rahman** and Fahmy M Elwasei. Protective effect of Nigella sativa oil against tramadol-induced tolerance and dependence in mice: Role of nitric oxide and oxidative stress. **Neurotoxicology**, Dec 2011,

Since 2013 :

25. Ahmed S. Ali, **Mahran S. Abdel-Rahman**, Ab Fatah Ab Rahman and Osman H. Osman. Basic principles of therapeutic drug monitoring. *J Appl Biopharm & Pharmacokin*, 2013, 1: 87-95.
26. **Mahran S. Abdel-Rahman**, Eman A. M. Alkady and Sameh Ahmed. Menaquinone-7 as a novel pharmacological therapy in the treatment of rheumatoid arthritis: A clinical study. *Eur J Pharmacol*, 2015 (761): 273-278.
27. Mekky M. Abouzied, Heba M. Eltahir, Ashraf Taye and **Mahran S. Abdelrahman**. Experimental evidence for the therapeutic potential of tempol in the treatment of acute liver injury. *Mol Cell Biochem* (2016) 411: 107–115.
28. Ahmed O Abdel-Zaher, Mostafa M Hamdy, **Mahran S Abdel-Rahman** and Doaa H Abd El-Hamid. Protective effect of citicoline against aluminum-induced cognitive impairments in rats. *Toxicology and Industrial Health* 2016: 1–10.
29. Hani M Khojah, Sameh Ahmed, **Mahran S Abdel-Rahman**, Al-Badr Hamza. Reactive oxygen and nitrogen species in patients with rheumatoid arthritis as potential biomarkers for disease activity and the role of antioxidants. *Free Radical Biology and Medicine*, 2016, 97: 285-291.
30. Hani M. Khojah· Sameh Ahmed, **Mahran S. Abdel-Rahman**, Khaled M. Alkhalil and Al-Badr Hamza. Vitamin K homologs as potential biomarkers for disease activity in patients with rheumatoid arthritis. *J Bone Miner Metab*, 2016.
31. Ahmed O. Abdel-Zaher*, Hanan S.M. Farghaly, Magda M.Y. Farrag, **Mahran S. Abdel-Rahman**, Basel A. Abdel-Wahab. A potential mechanism for the ameliorative effect of thymoquinone on pentylentetrazole-induced kindling and cognitive impairments in mice. *Biomed J & Pharmacother*, 2017, 88: 553-561.
32. Hani M. Khoja, Sameh Ahmed, **Mahran S. Abdel-Rahman**, Eman M. Elhakeim. Resveratrol as an effective adjuvant therapy in the management of rheumatoid arthritis: A clinical study. *J Clin Rheumatol*, 2018, (Under press).

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