

## **MAI SHOMAN, PHD**

*Contact Information: Mai Shoman*

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*Minia, Egypt*

**Current Position:**      **Lecturer, Medicinal Chemistry Department,  
Faculty of Pharmacy, Minia University, Egypt.**

### ○ **Positions**

- **Sep. 2002– Dec. 2007 Teaching Assistant** (demonstrator) at Medicinal Chemistry department, faculty of pharmacy, Minia University.
- **Dec. 2007– Oct. 2008 Assistant lecturer** at Medicinal Chemistry department, faculty of pharmacy, Minia University.
- **Oct. 2008– Oct. 2010 Research scholar** at Prof. S. Bruce King Lab, Wake Forest University, Winston Salem, North Carolina, USA.
- **Oct. 2010– May 2011 Assistant lecturer** at Medicinal Chemistry department, faculty of pharmacy, Minia University.
- **May 2011– current Lecturer** at Medicinal Chemistry department, faculty of pharmacy, Minia University.

### ○ **EDUCATION**

#### ● **FORMAL EDUCATION**

- **1986–1991**      Primary School.
- **1991–1994**      Preparatory School.
- **1994–1997**      Secondary School.

#### ● **GRADUATION**

- **May 2002**  
Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy, Minia University, Minia, Egypt.  
Degree (Excellent with degree of honor).

## ○ POST-GRADUATE STUDIES

### ▪ **PREREQUIST MASTER COURSES (April 2003– Oct. 2004)**

- Instrumental analysis for chemical compounds. (good degree)
- Mathematics and biostatistics. (Excellent degree)
- Physical chemistry. ( very good degree)
- Computer sciences (Excellent degree)
- Advanced Medicinal chemistry. (Excellent degree)
- Advanced Organic chemistry. (Excellent degree)
- Advanced Organic chemistry. (Excellent degree)

- **November 2007** got the master degree in Pharmaceutical sciences, "Pharmaceutical Medicinal Chemistry" at the department of Medicinal Chemistry, faculty of pharmacy, Minia university.

**Title “Synthesis and Investigation of Certain Pyrazoline Derivatives as Novel Carriers for Delivery of Nitric Oxide”**

- **March 2011 got PhD degree in** Pharmaceutical sciences, "Pharmaceutical Medicinal Chemistry" as channel between Wake Forest University, NC, USA and the department of Medicinal Chemistry, faculty of pharmacy, Minia university.

**Title “Synthesis and Evaluation of New thiol-Reactive Nitroxyl (HNO) Releasing Compounds”**

## ○ WORK EXPERIENCES

- 1- Basic skills in synthesis, isolation and purification of organic compounds (24 new compounds were synthesized during the master project using basic synthetic techniques).
- 2- Chromatographic techniques (Column Chromatography, Preparative TLC).
- 3- Teaching assistance of the practical courses of medicinal and organic chemistry for the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year's undergraduate pharmacy students .

## ○ RESEARCH INTERESTS

- 1- Design and synthesis of organic compounds of potential biological activities.
- 2- Prodrug approaches as a tool for enhancing drug properties
- 3- Studying the principles of structure elucidation using different spectroscopic data especially modern NMR techniques.
- 4- Computer based drug design including the pharmacophore and structure based designs.

○ **SOCIETIES and BOARDS**

- **1999–2002** High board member of the "Scientific Association of Minia Pharmacy Students, SAMPS"
- **2002** Member of the Minia and Egyptian Pharmaceutical Syndicate.
- **2006** Member of "Quality Assurance Unit" in Faculty of Pharmacy, Minia University.
- **2007** High board member of "Establishment of Internal Quality Assurance System Program" in Faculty of Pharmacy.

○ **Publications**

- **Mai E. Shoman**, Mohamed Abdel-Aziz, Omar M. Aly, Hassan. H. Farag, Mohamed A. Morsy "Synthesis and investigation of anti-inflammatory activity and gastric toxicity of novel nitric oxide-donating pyrazoline derivatives" European Journal of Medicinal Chemistry **44** (2009) 3068–3076
- Flores-Santana W, Moody T, Chen W, Gorczynski MJ, **Shoman ME**, Velazquez C, Thetford A, Mitchell JB, Cherukuri MK, King SB, Wink DA; Redox-Modified Non-Steroidal Anti-Inflammatory Drugs as Potential Anti-Cancer Agents with the SOD Mimetic Nitroxide. British J pharmacology, DOI: 10.1111/j.1476-5381.2011.01527.
- **Shoman ME**, DuMond JF, Isbell TS, Crawford JH, Brandon A, Honovar J, Vitturi DA, White CR, Patel RP, King SB. Acyloxy nitroso compounds as nitroxyl (HNO) donors: kinetics, reactions with thiols, and vasodilation properties. J Med Chem. 2011 Feb 24;**54**(4):1059–70.

**Personal Information**

**Name:** Mai El-Sayed Morsi Mohamed Shoman.

**Gender:** Female.

**Date of birth:** Dec. 15,1980

**Nationality:** Egyptian.

**Marital status:** Married, two child (boy, 5 years, girl, 8 months)

**Languages:** Arabic: mother language.  
English: Fluent both spoken and written(TOEFL iBT 105/120)  
French: Little.

**Skills:** Computer skills : Excellent in windows, office , net

## **References:**

### **Prof. S. Bruce King**

Professor of Chemistry

Wake Forest University, Winston salem, NC, USA

E-mail [Kingsb@wfu.edu](mailto:Kingsb@wfu.edu)

### **Prof. Hassan H. Farag**

Professor of Pharm. Med. Chemistry,

Medicinal Chemistry Department,

Faculty of Pharmacy, Assiut University,

Assiut 71526, Egypt.

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### **Ass. Prof. Omar M. Ali**

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