

Curriculum Vitae

PERSONAL DATA

NAME	Asmaa Ibrahim Matouk Ahmed
DATE OF BIRTH	October 1, 1985
NATIONALITY	Egyptian
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E-MAIL ADDRESS	asmaa.ahmed@mu.edu.eg



EDUCATION AND TRAINING

- **PhD in pharmacology**
 - Years: **2012-2018**
 - Institution: *Faculty of Pharmacy, Minia University, Egypt.*
 - Grade: *Excellent*
 - *Awarded Two years, Fully Funded PhD Scholarship (joint supervision) to East Carolina University, USA from the Egyptian Ministry of Higher Education (2013-2015).*
- **M.Sc. Pharmaceutical Sciences (*Pharmacology*):**
 - Years: *2008-2011*
 - Institution: *Faculty of Pharmacy, Minia University, Egypt.*
 - **The grade in postgraduate courses is: Excellent**
 - **Thesis title:** “Role of TNF-alpha in the Pathogenesis of Doxorubicin Induced Cardiomyopathy and Its Modulation by Different Pharmacological Agents”
- **B.Sc. Pharmaceutical Sciences:**
 - Years: **2002-2007**
 - Institution: *Faculty of Pharmacy, Minia University, Egypt.*
 - Grade: *Excellent with Honor Degree (91.89) %.*

EXPERIENCE

Positions held:

September 2023- now associate professor of pharmacology

Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University

(2018- 2023): LECTURER

Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University,

(2022-now): PART TIME LECTURER

Department of Pharmacology, Faculty of Pharmacy, Ahlia University, Minia, Egypt

(2015-2018) ASSISTANT LECTURER OF PHARMACOLOGY

Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University

(2013-2015) PhD Student as a part of scholarship awarded by Egyptian Ministry of Higher Education at Brody school of medicine, East Carolina University, USA

(2011-2013) ASSISTANT LECTURER OF PHARMACOLOGY

Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University

(2007- 2011) RESEARCH AND TEACHING ASSISTANT

Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University

- **Department representative member in the executive team of The Ministry of Higher Education program" Faculty Education Quality Assurance & Accreditation Program" (2007-now).**

TEACHING EXPERIENCE

1) Five years experience in teaching g pharmacology courses for post - graduate students namely, General Pharmacology, Biochemical Pharmacology, Molecular Pharmacology and Advanced Pharmacology for M.Sc. Pharmacology and Biotechnology programs.

2) Five years experience in teaching Pharmacology, Toxicology , Biological assay and Biostatistics to third - and fourth - year Pharmacy students.

3) Five years experience in teaching Pharmacology I, II and III, Clinical Pharmacology, Clinical Pharmacy, Medical terminology, Pathophysiology, therapeutics – I, Therapeutics- II and First Aid to Clinical Pharmacy students.

4) More than 10 years experience in teaching ng experimental pharmacology, clinical pharmacology, experimental toxicology, biological assays, biostatistics and screening for the third and fourth year students as well as graduate students (2003 – now)

RESEARCH EXPERIENCE

A. Isolated organ (in-vitro) preparations

Good experience with isolated rabbit intestine, guinea pig colon, frog rectus abdominis.

B. In vivo experience in:

1. Handling of experimental animals and administration of drugs by different routes
2. Inducing experimental gastric and duodenal ulceration in rats
3. Inducing methotrexate and doxorubicin-induced organ toxicity
4. Inducing experimental diabetes with Streptozotocin (STZ)

5. Inducing gentamicin nephrotoxicity
6. Screening of analgesics, antioxidants, antiepileptic, antihistaminic and CNS depressant.
7. Intracisternal cannulation and drug injection in cistern magna in rats
8. Femoral artery catheterization in rats for recording blood pressure and heart rate in conscious and anesthetized rats
9. Ventricular catheterization in rats for recording left ventricular functions in conscious and anesthetized rats
10. Femoral vein catheterization in rats for intravenous drug administration

C. Instrumental techniques

Good experience spectrofourometry, spectrophotometry, ELISA, Western blotting, immunohistochemistry and immunoflourescence.

GRADUATE STUDENTS SUPERVISORY MEMBERSHIP

COMPUTER EXPERIENCE

Good experience with Microsoft Windows®, Microsoft office (Word, Excel®, PowerPoint ®, Access®), Endnote ®, Graph pad Prism ® Statistica ® SPSS ®, Adobe Reader®.

LANGUAGE: Excellent command of English

HONORS & AWARDS

Class standing:

- *The 1st student throughout my undergraduate and postgraduate studies.*
- *Two years, Fully Funded PhD Scholarship (joint supervision) to East Carolina University, USA from the Egyptian Ministry of Higher Education.*

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CONFERENCES & WORKSHOPS

July 2004 "SEMINAR AND TEACHING COURSE IN (DIABETES MELLITUS)"

A workshop presented by Dr. Mohamed E. Shetat Professor of internal medicine at faculty of medicine, Minia University, Egypt.

July 2008 "EFFECTIVE PRESENTATION SKILLS"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

July 2008- August 2008 "PRACTICAL WORKSHOP ABOUT DEALING WITH THE ANIMALS USED IN BIOLOGICAL EXPERIMENTS AND ANALYSIS"

Food Technology and Research Institute, Agricultural Research Center, Egypt

August 2008 "MANAGEMENT OF RESEARCH TEAM WORK"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

August 2008 "THE QUALITY OF TEACHING PROCESS"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

October 2008 "EXAMINATION SYSTEM AND STUDENT ASSESSMENTS"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

November 2008 Organizer of the "DIABETES DAY" held in Faculty of Pharmacy, Minia University, Egypt.

December 2008 "EFFECTIVE COMMUNICATION SKILLS"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

December 2008 "SCIENTIFIC PUBLICATIONS"

Faculty Development & Leadership Center, Minia University, Minia, Egypt

March 2010 "BASIC MOLECULAR BIOLOGY"

A workshop presented by Prof. Dr. Mohamed S. Afifi Organizer, Executive Director, Medical Technology Center At Medical Technology Center For Research and Services, Medical Research Institute, Alexandria University

AFFILIATIONS

Member of the Egyptian Syndicate of Pharmacist (2007-NOW)

Member of the Egyptian Society of Alternative Medicine (2008 – 2009)

Member of the American Society for Pharmacology and Experimental Therapeutics (ASPET)

REFERENCES

Prof Dr. Abdel A. Abdel Rahman

Professor of Pharmacology and Vice Chairman Pharmacology and Toxicology department.

Brody school of medicine. East Carolina University, 27834, NC, USA. abdelrahmana@ecu.edu

Prof Dr. Mohamed Salah Kamel,

Professor of Chemistry of Natural Products and Dean of Faculty of Pharmacy (2007-2012),

Faculty of Pharmacy, Minia University, Egypt. mskamel@yahoo.com

Prof Dr. Ashraf Mohamed Abo-Elwafa

Assistant Prof. of Pharmacology and head of Pharmacology & Toxicology Faculty of

Pharmacy, Minia University, Egypt. ashraf_taye70@yahoo.

List of publications

1. Matouk, A.I., et al., *Dihydromyricetin protects against gentamicin-induced nephrotoxicity via upregulation of renal SIRT3 and PAX2*. Life Sci, 2024. **336**: p. 122318.
2. Botros, S.R., et al., *Comparative effects of incretin-based therapy on doxorubicin-induced nephrotoxicity in rats: the role of SIRT1/Nrf2/NF-kappaB/TNF-alpha signaling pathways*. Front Pharmacol, 2024. **15**: p. 1353029.
3. Matouk, A.I., et al., *Dihydromyricetin Modulates Nrf2 and NF-kappaB Crosstalk to Alleviate Methotrexate-Induced Lung Toxicity*. Pharmaceuticals (Basel), 2023. **16**(4).
4. Waz, S. and A.I. Matouk, *Cardioprotective effect of allyl isothiocyanate in a rat model of doxorubicin acute toxicity*. Toxicol Mech Methods, 2022. **32**(3): p. 194-203.
5. Matouk, A.I., et al., *Protective effects of menthol against sepsis-induced hepatic injury: Role of mediators of hepatic inflammation, apoptosis, and regeneration*. Front Pharmacol, 2022. **13**: p. 952337.
6. Matouk, A.I., et al., *Dihydromyricetin alleviates methotrexate-induced hepatotoxicity via suppressing the TLR4/NF-kappaB pathway and NLRP3 inflammasome/caspase 1 axis*. Biomed Pharmacother, 2022. **155**: p. 113752.
7. Botros, S.R., et al., *Protective effect of empagliflozin on gentamicin-induced acute renal injury via regulation of SIRT1/NF-kappaB signaling pathway*. Environ Toxicol Pharmacol, 2022. **94**: p. 103907.
8. Badr-Eldin, S.M., et al., *Optimized Self-Nanoemulsifying Delivery System Based on Plant-Derived Oil Augments Alpha-Lipoic Acid Protective Effects Against Experimentally Induced Gastric Lesions*. Dose Response, 2021. **19**(1): p. 15593258211001259.
9. Matouk, A.I., et al., *Abnormal cannabidiol confers cardioprotection in diabetic rats independent of glycemic control*. Eur J Pharmacol, 2018. **820**: p. 256-264.
10. Matouk, A.I., et al., *The Effect of Chronic Activation of the Novel Endocannabinoid Receptor GPR18 on Myocardial Function and Blood Pressure in Conscious Rats*. J Cardiovasc Pharmacol, 2017. **69**(1): p. 23-33.
11. Matouk, A.I., et al., *Quercetin augments the protective effect of losartan against chronic doxorubicin cardiotoxicity in rats*. Environ Toxicol Pharmacol, 2013. **36**(2): p. 443-450.

