



## Lobna Aly Abdelzaher Abdelrahman

*Birth Date:* 30<sup>th</sup> November, 1981

*Current Position:* Lecturer in pharmacology Dep., Faculty of Medicine, Assiut University, Egypt

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## EDUCATION

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**Sept. 1999 – Sept. 2004**

The "M. B. B. CH" degree in Medicine and Surgery with excellent degree with honor

**March 2005-29<sup>th</sup> Feb. 2006**

Resident physician at Assiut University Hospital

**March 2006 - July 2009**

Demonstrator at the Pharmacology Dep., Faculty of Medicine, Assuit University.

**July 2009 - May 2016**

Assistant lecturer at the Pharmacology Dep., Faculty of Medicine, Assuit University.

**April 2012- April 2016**

Ph D student in Dep. of Molecular and Medical Pharmacology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Japan.

**June 2016 till now**

Lecturer at the pharmacology Dept., Faculty of Medicine, Assuit University.

## Grants and Fellowships

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- Research grant from from **Freie Universität Berlin (2010).**
- **PhD grant from the Egyptian governement** for studying in Dep. of Molecular and Medical Pharmacology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Japan **(2012-2016).**

## Publications

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### **Astaxanthin alleviates oxidative stress insults-related derangements in human vascular endothelial cells exposed to glucose fluctuations**

LA Abdelzaher, T Imaizumi, T Suzuki, K Tomita, M Takashina, Y Hattori  
Life sciences 150, 24-31

### **The novel potential therapeutic utility of montelukast in alleviating autistic behavior induced by early postnatal administration of thimerosal in mice**

LA Abdelzaher, OA Hussein, IEM Ashry  
Cellular and molecular neurobiology 41 (1), 129-150

### **Formulation and Evaluation of Moxifloxacin HCl from Topical Gel Preparations**

EM Samy, SM Ahmed, MO Ahmed, AA Abdel-Rheem, MA El-Mokhtar, ...  
Journal of American Science 13 (8)

### **Valproate attenuates hypertonic glycerol-induced rhabdomyolysis and acute kidney injury**

MS Hareedy, LA Abdelzaher, DM Badary, SM Alnasser, AM Abd-Eldayem  
Néphrologie & Thérapeutique

### **Lisofylline mitigates cardiac inflammation in a mouse model of obesity through improving insulin secretion and activating cardiac AMPK signaling pathway**

M Ali, MH Bakr, LA Abdelzaher, SA Sayed, V Mali, AA Desai, E Radwan  
Cytokine 138, 155398

### **Effect of amlodipine and L-carnitine on bone metabolism in ovariectomized rats**

AFA Ghany, YM Ashour, NB Aly, LA Abdelzaher, AS Mahmoud  
Al-Azhar Assiut Medical Journal 19 (1), 92

### **The effect of antioxidant and iron chelator on metabolic bone turnover in ovariectomized rats**

ME El-Refaey, YM Ashour, LA Abdelzaher, MA Shabaan  
Al-Azhar Assiut Medical Journal 19 (1), 85

### **Glucose fluctuations induce ROS-mediated eNOS dysfunction in human vascular endothelial cells: Effect of astaxanthin**

T Imaizumi, LA Abdelzaher, T Suzuki, K Tomita, M Takashina, Y Hattori  
JOURNAL OF PHARMACOLOGICAL SCIENCES 130 (3), S245-S245

### **The Ca<sup>2+</sup> sensitizer levosimendan mitigates septic inflammation**

H Yokoo, Q Wang, LA Abdelzaher, M Takashina, W Ohashi, K Sakata, ...  
JOURNAL OF PHARMACOLOGICAL SCIENCES 124, 105P-105P

### **Oligonol inhibited the NADPH oxidase activity and preserved the insulin signal in endothelial cells under diabetic conditions**

H Yokoo, K Taguchi, K Tomita, M Takashina, Q Wang, LA Abdelzaher, ...  
JOURNAL OF PHARMACOLOGICAL SCIENCES 121, 163P-163P

## **Professional Memberships**

Member at Egyptian Society of Pharmacology and Experimental Therapeutics (ESPET).

## Teaching Experience

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Teaching the undergraduate students of faculties of **Medicine, Pharmacy, Clinical pharmacy, Veterinary Medicine and Clinical Diploma** the following courses:

### *A- Pharmacology courses*

#### Theoretical courses

- **Pharmacokinetics of drugs** (absorption, distribution, biotransformation and excretion) & **Pharmacokinetic parameters** (clearance, volume of distribution, bioavailability, half life).
- **Pharmacodynamics of drugs.**
- **Pharmacotherapeutics.**
- **Autonomic nervous system** (adrenergic & cholinergic nervous systems).
- **Autacoids** (drugs acting on histamine, serotonin, prostaglandins and rennin angiotensin system).
- **Cardiovascular system** (drug treatment of ischemic heart diseases, hypertension, hyperlipedemia, arrhythmia and heart failure).
- **Central nervous system** (drug treatment of epilepsy, parkinsonism, depression, mania, psychosis, migraine, drug dependence and general and local anesthetics), groups as NSAIDs and opioids and central neurotransmitters.
- **Gastrointestinal system** (drug treatment of peptic ulcer, irritable bowel diseases and antiemetics).
- **Respiratory system** (drug treatment of bronchial asthma and obstructive lung diseases).
- **Chemotherapy** (antibacterial, antiviral, antifungal, antiparasitic and antineoplastic drugs).
- **Hormones** (hypothalamic, pituitary, gonadal and adrenal hormones and contraceptives).

#### Practical courses

- Experimental animals and their method of handling.
- Drug dosage forms.
- Routes of drug administration.
- Drug biotransformation.
- Dose-response relationship.
- Autonomic drugs and the eye.
- Effect of drugs on the smooth muscles of the rabbit's intestine.
- Effect of autonomic drugs on the arterial blood pressure.
- Effect of neuromuscular blockers on rectus abdominis.
- Pharmacology computer exercising program (isolated heart program).
- Pharmacology computer exercising program (the unknown program).
- Local anesthetics.

- Cases (Glaucoma, Parkinsonism, peptic ulcer, hypertension, congestive heart failure, Asthma, angina pectoris, shock and organophosphorous poisoning).

### ***B- Toxicology courses***

#### **Theoretical courses**

- General mechanisms of toxic action.
- Selective toxicity.
- General principles for the treatment of poisons.
- Carcinogenicity and Teratogenicity.
- Air born poisons.
- Heavy metal toxicity.
- Pesticide toxicity.
- Toxicity of corrosives.
- Forensic chemistry.
- Hazards of medication.
- Drug induced diseases.
- Drug interactions.
- First aid.

#### **Practical courses**

- Antidotal therapy.
- Central nervous system stimulants (cerebral hemisphere, brain stem and spinal cord).
- Lead poisoning.
- Carbon monoxide poisoning.
- Cyanide poisoning.
- Digoxin toxicity.
- Mercury toxicity.
- Corrosives.
- First aid measures.
- Teratogenicity.

### ***C- Bioassay courses***

#### **Theoretical courses**

- Drug development.
- Principles of biostatistics.
- Introduction to screening of biological activity.
- Screening of CNS activity (CNS depressant activity, Analgesic activity, aticonvulsant activity, antipsychotic activity, antianxiety activity, antidepressant activity and antiparkinsonism activity).
- Screening methods for autonomic nervous system activity (screening of parasympathomimetic activity, screening of sympathomimetic activity).

- Screening methods for cardiovascular system activity (antihypertensive activity, cardiac glycosides, antiarrhythmic activity).
- Bioassay of autacoids.
- Bioassay of hormones.
- Drug monitoring, techniques and kinetics.

### Practical courses

- Introduction to bioassay and isolated muscle preparation.
- Dose-response curve of acetylcholine.
- Four point assay of acetylcholine.
- Four point assay of epinephrine.
- Biostatics.
- Screening of neuromuscular blockers.
- Screening of cardiotonic drugs.
- Screening of antiarrhythmic drugs.
- Screening of analgesics.
- Screening of antipsychotics.
- Screening of antiepileptic drugs.
- Screening of local anesthetic agents.

### *D- Clinical Pharmacy courses*

- Pharmacology 1 (General, ANS, CVS)
- Pharmacology 2 (CNS)
- Drug Interactions
- Medical Terminology.
- Pharmacotherapeutics.
- Toxicology and Forensic Medicine.

## Languages

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Fluent in English and Japanese.

## Activities & Interests

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Reading, Travelling, Playing tennis, Riding bicycles and breeding pets.