

## **Curriculum vitae**

### **Personal data:**

- Name: Alaa Talaat AbdAllah Abdelhafez
- الإاء طلعت عبدالله عبدالحافظ
- Address Medical Pharmacology Department, Faculty of Medicine, Assiut University, Assiut, Egypt.
- Nationality: Egyptian
- Gender: Female
- Date of birth: 3-12-1980
- Marital status: Married
- Current job: Lecturer of Medical Pharmacology
- E-mail: [alaa.abdelhafez@aun.edu.eg](mailto:alaa.abdelhafez@aun.edu.eg)
- Phone number: 00201002022335

### **Qualifications, awarding Institutes and date:**

#### **May 2017:**

##### **Doctorate in Pharmacology**

The title of the thesis was:

**Pharmacogenomic analysis of inosine triphosphatase gene (ITPA) in Egyptian patients with chronic hepatitis C infection and its relation to ribavirin-induced hemolytic anemia.**

**The awarding institution was the Faculty of Medicine, Assiut University, Egypt.**

The Ph.D. registration date was: 16-12-2012

My Ph.D. was funded by the Egyptian Cultural Affairs and Missions sector and was under joint supervision (Egyptian Italian). I have collected the data and the blood samples from Egyptian HCV patients. I have performed the laboratory work in the laboratory of Amedeo De Savoia Hospital, Turin University, Turin, Italy.

#### **June 2009:**

Master's degree in pharmacology. "Very good" was awarded by the Faculty of Medicine, Assiut University.

**September 2003:**

M.B.B.Ch.. of Medicine and Surgery with grade “Excellent with degree of honor” from the Faculty of Medicine, Assiut University.

**Academic positions:**

- Demonstrator employment date:17-3-2005
- Assistant lecturer employment date:24-9-2009

**Current position:** Lecturer of Pharmacology in the Faculty of Medicine, Assiut University since 11 July 2017.

**Professional summary:**

- Lecturer of Medical Pharmacology with excellent qualifications.
- Over 20 years of experience in teaching pharmacology courses to medical students.
- Able to share in various interdisciplinary scientific projects in both animal and human pharmacology.
- Attended different workshops in the Quality Assurance Unit since 2018 till now.
- Assistant coordinator in the block of hematology since 2022 till now.
- Participant in the quality assurance unit in the Faculty of Medicine, Assiut University: sharing in preparing the PhD strategic plan and assessment of postgraduate students' exams since 2022 till now.
- Shared in the preparation and assessment of undergraduate exams.

**Work experience:****From July 2017 till now:**

**DEPARTMENT OF MEDICAL PHARMACOLOGY, FACULTY OF MEDICINE, ASSIUT UNIVERSITY, ASSIUT, EGYPT**

*Lecturer*

- Participated in Research Projects.
- A peer reviewer in international pharmacology journals

- Shared in the preparation and teaching of Pharmacology courses for undergraduate students of the faculty of Medicine, Pharmacy, Clinical Pharmacy, Dentistry and Nursing students in Assiut University.
- I taught different Pharmacology courses: Pharmacokinetics, Pharmacodynamics, Autonomic, Autacoids, Cardiovascular pharmacology, Neuropharmacology, Blood, Endocrine pharmacology, Chemotherapy, and Immunopharmacology.
- Prepared and taught pharmacology courses for undergraduate Dentistry, Nursing and Biotechnology students at Badr University.
- I am a participant in the work of examination and monitoring of grades and control for undergraduate students of the faculty of medicine.
- Academic guide for 1<sup>st</sup> year medical students.
- Participated in the development of regulations and the follow-up teaching of undergraduate and postgraduate students.
- I am a participant in the assessment of the PhD exams.
- Setting electronic question banks for medical, Pharmacy and nursing students.
- Co-Ordinator of the department of pharmacology for the PhD degree
- Co-Ordinator of the department of pharmacology for the hematology block
- Train and lead master students involved in the projects carried out by the university.

**From November 2014 to October 2015**

**LABORATORY OF CLINICAL PHARMACOLOGY AND PHARMACOGENETICS,  
DEPARTMENT OF MEDICAL SCIENCES, UNIT OF INFECTIOUS DISEASES,  
AMEDEO DI SAVOIA HOSPITAL, UNIVERSITY OF TURIN, TURIN, ITALY.**

- Learned basics of pharmacogenetics.
- Practiced many laboratory skills, including qualitative real-time PCR required for Pharmacogenetic analysis.
- Performed medical statistics using the SPSS program.

**From March 2005 to October 2014 and from November 2015 to May 2017**

*Teaching Assistant - Department of Medical Pharmacology*

- Average work hours were 40 hours/week throughout the academic year (September-May)
- Duties were:
  - Organize reference materials, visual aids and other materials as required by university professors.
  - Conduct discussion groups and laboratory sessions to supplement lectures for the following courses for medical students (Pharmacokinetics, pharmacodynamics, Autonomic, Autacoids, Cardiovascular pharmacology, Neuropharmacology, Blood, endocrine pharmacology, chemotherapy, and immunopharmacology).
  - Teaching toxicology and screening of drugs for pharmacy students.

#### Training and advanced courses:

16-17 Dec 2020	<b>FACULTY OF VETERINARY MEDICINE, ASSIUT UNIVERSITY, EGYPT</b> <i>A workshop: Immunohistochemistry and image analysis using image J</i>
10-11 April 2013	<b>MICROBIOLOGY DEPARTMENT FACULTY OF MEDICINE, ASSIUT UNIVERSITY, EGYPT</b> <i>Workshop on Optimization and Bioinformatics of PCR</i>
26-28 Feb 2013	<b>MEDICAL TECHNOLOGY CENTER, ALEXANDRIA UNIVERSITY</b> <i>A workshop: Basics and applications of HPLC and GC in medical biochemistry for beginners</i>
Feb 2010	<b>PHARMACOLOGY DEPARTMENT, FACULTY OF MEDICINE, CAIRO UNIVERSITY, EGYPT</b> <i>A Workshop: experimental animal handling and laboratory procedures</i>
Jan 2021	<b>STUDENT ASSESSMENT UNIT, ASSIUT UNIVERSITY, EGYPT</b> <i>Designing electronic tests</i>
2006- 2025	<b>FACULTY AND LEADERSHIP DEVELOPMENT CENTER, ASSIUT UNIVERSITY, EGYPT</b> <i>How to design an electronic course</i> Statistical analysis in research

Organizing scientific conferences  
Funding for scientific research and grants  
Research team management  
Analytical thinking  
Teaching large numbers and small teaching  
Professional ethics and etiquette  
Effective communication skills  
Legal aspects in universities  
The use of technology in teaching  
University Quality Culture  
Publication of research in international journals  
Fundamentals of Digital Transformation Course  
Preparing a proposal for a competitive research project  
Excellence in university teaching

#### Recent Conferences:

**The 35<sup>th</sup> annual conference of the Faculty of Medicine under the title: Artificial Intelligence and healthcare benefits and challenges, April 2025**

**The 18<sup>th</sup> annual conference of the South Egypt Diabetes and Endocrinology Association 2025**

**The 34<sup>th</sup> annual conference of the Faculty of Medicine under the title: Nutritional aspects of different diseases, March 2024**

**The 15<sup>th</sup> annual conference of the South Egypt Diabetes and Endocrinology Association 2022**

**4<sup>th</sup> annual scientific conference of Assiut University Hospital Pharmacists, March 2022**

#### International Publications:

Abdel-Zaher, A. O., Bakr, M. H., Gad, Y. H., & **Abdelhafez**, A. T. (2025). Novel mechanistic insights of the potential role of gasotransmitters and autophagy in the protective effect of metformin against hepatic ischemia/reperfusion injury in rats. *Naunyn-Schmiedeberg's Archives of Pharmacology*. <https://doi.org/10.1007/s00210-025-03837-1>

Galal, H. M., **Abdelhafez**, A. T., Sayed, M. M., Gomaa, W. M., Tohamy, T. A., Gomaa, A. M., & El-Metwally, T. H. (2024). Impact of L-Arginine on diabetes-induced

neuropathy and myopathy: Roles of PAI-1, Irisin, oxidative stress, NF- $\kappa$ B, autophagy and microRNA-29a. *Tissue and Cell*, 87, 102342.

**Abdelhafez**, A. T., Ahmed, A. M., Sayed, M. M., & Sayed, S. A. (2024). THE PROTECTIVE EFFECTS OF TOCOTRIENOLS AND COENZYME Q10 AGAINST GLUCOCORTICOID-INDUCED OSTEOPOROSIS IN RATS: POTENTIAL ROLES OF NRF2, BCL-2, AND AUTOPHAGY. *Bulletin of Pharmaceutical Sciences Assiut University*, 47(2), 1297-1310.

**Abdelhafez**, A.T., Gomaa, A.M.S, Ahmed A.M., Sayed M.M., Ahmed M.A. Pioglitazone and/or irbesartan ameliorate COPD-induced endothelial dysfunction in side-stream cigarette smoke-exposed mice model. *Life Sciences* 2021; 280,119706.

Gomaa, A.M.S., **Abdelhafez**, A.T. & Aamer, H.A. Garlic (*Allium sativum*) exhibits a cardioprotective effect in experimental chronic renal failure rat model by reducing oxidative stress and controlling cardiac Na<sup>+</sup>/K<sup>+</sup>-ATPase activity and Ca<sup>2+</sup> levels. *Cell Stress and Chaperones* 23, 913–920 (2018). <https://doi.org/10.1007/s12192-018-0898-x>

Ehab S El Desoky, **Alaa T Abdelhafez**, Jessica Cusato, Sherif I Kamel, Abeer MR Hussein, Amedeo De Nicolo, Giovanni Di Perri, Antonio D’Avolio. The role of ITPA and ribavirin transporter genes polymorphisms in prediction of ribavirin-induced anaemia in chronic hepatitis C Egyptian patients. *Clin Exp Pharmacol Physiol*.2017; 44,965-968.

Ahmed, E. A. K., Ali, R. M., Bakr Mohamed, M. H., Mohamed Abd Elaziz, R. E., & **Abdelhafez**, A. T. (2025). Granulocyte Colony-Stimulating Factor Inhibits Pontine Astrogliosis and Induces Sciatic Remyelination In a Neuropathic Rat Model: Roles Of GFAP, PCNA And S100. *Bulletin of Pharmaceutical Sciences Assiut University*.

**Abdelhafez A**, Cusato J, Hussein A, Kamel S, De Nicolò A, Di Perri G, Antonio D’Avolio, Ehab S El Desoky. ITPA gene variants as markers of ribavirin-induced anemia and white blood cells reduction in Egyptian HCV patients. *Journal of Viral Hepatitis* 2015; 22, 27-28.