

# **Curriculum Vitae**

**Name:** Heba Nasr Mohamed Mostafa

**Current Status:** Lecturer

**Department:** Pharmacology and Toxicology

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## **1- Education**

### **Academic Degrees**

#### **Bachelor**

Bachelor in Pharmaceutical Sciences, Faculty of Pharmacy, Cairo University. (2013)

#### **Master**

Master degree in Pharmaceutical Sciences (Pharmacology and toxicology), Faculty of Pharmacy, Cairo University. (2018)

#### **The master thesis title:**

"Neuroprotective evaluation of certain antiepileptic drugs on 3-nitropropionic acid-induced neurotoxicity in rats"

#### **PhD**

Doctor of Philosophy degree in Pharmaceutical sciences (Pharmacology and toxicology), Faculty of Pharmacy, Cairo University. (2022)

#### **The PhD thesis title:**

"Study of the Possible Role of Adenosine A<sub>2</sub>A Receptor In Modulating Experimentally Induced Mania in Rats "

## **2- Professional Experience**

### **From December 2022 till Now:**

Instructor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.

### **From December 2018 till December 2022:**

Assistant Lecturer of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.

### **3- Teaching Activities**

#### **Faculty of Pharmacy, Cairo University (FOPCU)**

**Teaching undergraduate and postgraduate courses, Faculty of Pharmacy at Cairo University**

##### **A) General courses:**

**Participating in teaching and supervising the practical course of**

Basic and clinical toxicology (PO 904)

Biological standardization (PO E06)

Pharmacology-1 (PO 501)

Medical Courses

##### **B) Clinical courses:**

**Participating in teaching and supervising the practical courses of**

Clinical pharmacology (PO906)

Pharmacology-2 (PO602)

Pharmacology-1 (POC401)

##### **C) Postgraduate courses**

###### **Pharmacovigilance diploma**

Research project (1327)

Medical Biostatistics (1321)

###### **Premaster courses**

Experimental pharmacology (2305)

Physiology and pathophysiology of diseases (2304)

Clinical pharmacology (2306)

## 4- Research Activities

### A. Full list of publications:

**1-Shalaby HN**, El-Tanbouly DM, Zaki HF. Topiramate mitigates 3-nitropropionic acid-induced striatal neurotoxicity via modulation of AMPA receptors. *Food Chem Toxicol.* 2018 Aug;118:227-234. doi: 10.1016/j.fct.2018.05.022. Epub 2018 May 14. PMID: 29753867.

**2-Shalaby HN**, Zaki HF, Ain-Shoka AAA, Mohammed RA. Adenosine A<sub>2A</sub> Receptor Blockade Ameliorates Mania Like Symptoms in Rats: Signaling to PKC- $\alpha$  and Akt/GSK-3 $\beta$ / $\beta$ -Catenin. *Mol Neurobiol.* 2022 Oct;59(10):6397-6410. doi: 10.1007/s12035-022-02977-2. Epub 2022 Aug 9. PMID: 35943710; PMCID: PMC9463338.

**3-Ahmed A. Al-Karmalawy**, Ahmed F Mohamed, **Heba Nasr Shalaby**, Ayman Abo Elmaaty, Riham A. El-Shiekh, Mohamed A. Zeidan, Radwan Alnajjar, Abdullah Yahya Abdullah Alzahrani, Mohammed H. AL Mughram, Moataz Ahmed Shaldam and Haytham O. Tawfik RSC Medicinal Chemistry. 2025. Feb. Donepezil-Based Rational Design of N-Substituted Quinazolinthioacetamide Candidates as Potential Acetylcholine Esterase Inhibitors for the Treatment of Alzheimer's Disease: In vitro and In vivo Studies. DOI: 10.1039/D4MD00778F.

### B. Supervision of master's and doctoral theses:

#### Master's dissertations:

1-Pharmacological study of the effect of some antidiabetic drugs in an animal model of valproic acid induced autism

2-Modulatory effect of roflumilast on cisplatin-induced cognitive impairment in rats

3-Possible therapeutic effect of fasudil in fibromyalgia-like model induced by Reserpine exposure in rats

4-A study of the possible therapeutic benefits of luteolin in 3-nitropropionic acid model of Huntington's disease in rats

### **Doctoral Dissertations:**

1-Study of the possible role of certain agents in methionine-induced heart failure in rats

### **C. Scientific Journal Reviewer**

- BMC pharmacology & Toxicology

### **D. Workshops and Training Courses:**

#### **1) Faculty and Leadership Development Center (FLDC) courses during the period of “Teaching Assistant” academic degree:**

- 1-International Publications For Scientific Research (May 2015)
- 2-Ethical Considerations For The Use Of Animals In Scientific Research (December 2017)
- 3-Ethics Of Scientific Research (February 2018)
- 4-Examination System And Student Assessment (July 2018)
- 5-Reseach Team Management (September 2018)
- 6-University Administration (January 2019)
- 7-Statistical Analysis In Biological Experiments (July 2019)
- 8- Use Of Technology In Teaching (September 2019)
- 9-Interactive E-Courses (February 2020)
- 10-Professional Ethics And Conduct In University Work (August 2020)
- 11- Credit Hour System (September 2020)
- 12-Critical Thinking (January 2021)
- 13-Fundamental Of Blended Learning (May 2021)
- 14- Digital Transformation Courses. (June 2022)

#### **2) Faculty and Leadership Development Center (FLDC) courses during the period of “Lecturer” academic degree:**

- 1-EKB and research sources (May 2023)

**E. Internal activities within the department and the faculty:**

- Participation in academic counselling within the Pharm D Program (2022 till now).
- Member of the Department's Equipment Committee (2022-2023).
- Member of the Department's glassware Committee (2022 till now).
- Control Member for second year students (2022-2024).
- Control Member for third year students (2025 till now)
- Department representative on the library committee (2022 till now)
- Department representative at the Green office and environmental sustainability (2025)

**Workshops**

- 1-Attending Jove Webinar: Bringing Text To Life, 2021
- 2-Workshop On The Academic Advising System, 2023
- 3-Workshop On AI Applications, 2024
- 4-Workshop To Introduce Quality Work, 2018
- 5- DKA Workshop Learning Through Projects, 2024.
- 6- Drug Abuse And Addiction Workshop By BUE, 2025
- 7- Workshop On What Do We Have In Store To Treat Dementia? At FOPCU, 2024
- 8- Symposium About Shaping The Awareness For Dementia In Egypt, 2024

**Conferences**

- 1- Contraceptive counselling for pharmacist under supervision of supreme council of universities, 2024.
- 2- 9th International Scientific Conference of Faculty of Pharmacy, Cairo University, 25-26 April, 2018 (Poster presentation)

**Scholarly Journals:**

**Contribution to authoring the textbooks for students at the Faculty of Pharmacy, Cairo University:**

- Pharmacology I
- Pharmacology II
- Toxicology and Forensic chemistry.
- Clinical Pharmacology
- Biological Standardization