

Yousra Yehia Ahmed El Banna, BScPharm, MSc, PhD



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Current Position

- Assistant professor of pharmacology at college of pharmacy, Arab academy for science and technology and maritime transport (started at September 2022)

Education

- **Doctor of Philosophy in Pharmacology & experimental therapeutics**

Medical research institute, Alexandria University, Egypt (fall 2017 – Spring 2022)

- Thesis title: *Evaluation of the potential antitumor effects of Vitamin A and/ or PD-L1 cellular checkpoint inhibitor on hepatocellular carcinoma cell lines.*

- **Master of Science in Biotechnology**

Department of Biotechnology, Institute of Graduate Studies and Research (IGSR), Alexandria university.

Thesis title: "Biotechnological Study on the Role of N-Nitrosamine compounds in the incidence of infertility in Male rabbits (spring 2012- fall 2015)

- **Bachelor of Pharmaceutical Sciences**

Faculty of Pharmacy, Alexandria University, Alexandria, Egypt (Fall 2006 – Spring 2011)

Grade: (*Excellent with Honors*)

- High School Diploma (97.7%) Institution Sainte Jeanne Antide, Alexandria (french school) (Egypt)

Teaching Experience

Lecturer

Courses delivered:

- **Basic Pharmacology (General Principles of Pharmacology)**
- **Pharmacology I (GIT, Hepatitis and Pancreatitis)**
- **Pharmacology III (Antibiotics)**
- **Pharmacology and therapeutics III (Infectious diseases)**
- **Pharmacology IV**
- **Pharmacology and therapeutics IV (Endocrine system and renal diseases)**
- **Pharmacology and Therapeutics V (Respiratory and Neurological Diseases)**

College of pharmacy, Arab academy for science and technology and maritime transport (AASTMT) (started at September 2022) – Current.

Responsibilities:

- ☐ Designing course structures, assessments, and examinations.
- ☐ Preparing and delivering lecture materials.
- ☐ Uploading lectures and assignments through Moodle.
- ☐ Course coordinator Head of the Pharmacology department
- ☐ Serving as a member of the AASTMT marketing team and managing program updates on the AASTMT website.

Assistant Lecturer

Courses:

- **Pharmacology I (testing drugs on rabbit intestine and Guinea pig ileum)**
- **Toxicology**
- **First aid**
- **Biochemistry lab**
- **Organic chemistry and analytical labs**
- **Cell biology**
- **Liquid dosage form**
- **Histology**

College of Pharmacy AASTMT

- **Pharmacology**
- **Microbiology**

At Misr university for science and technology (MUST), 6th October, Cairo, Egypt

- **Microbiology**

Department of microbiology at El Ahram Canadian university, 6th October, Cairo, Egypt

Responsibilities:

- Helping students conduct experiments during lab session safely.
- Conducting tutorial and revision sessions for the students.
- Assisting in correcting the assignments.
- Assigning office hours for students to help them in course work
- Academic advising
- Assisting in correcting the assignments.
- Assigning office hours for students to help them in course work

Research Interests

My research is focused on cancer immunotherapy, specifically the treatment of hepatocellular carcinoma. I am particularly interested in molecular pharmacological pathways involving immunocheckpoint inhibitors and their effects on signaling pathways such as NFkB, pAKT, PERK, STAT3, CD1, and VEGF. My methodologies include protein and gene expression analysis through ELISA, Western Blotting, and RT-PCR.

Publications

- **Sheweita, S.A. et al.** (2017). *N-nitrosamines induced infertility and hepatotoxicity in male rabbits*. Environmental Toxicology, 32(9), 2212–2220. DOI: [10.1002/tox.22436](https://doi.org/10.1002/tox.22436)
- **El Banna, Y.Y. et al.** (2023). *PD-1/PD-L1 Axis Inhibitors as a Promising Strategy for Management of Hepatocellular Carcinoma: Expectations, Boundaries, and Pitfalls*. Journal of the Medical Research Institute, 44(2), 1-8.

Work experience

- **Assistant Professor** in the Pharmacology Department, College of Pharmacy, Arab Academy for Science, Technology, and Maritime Transport (AASTMT) (September 2016 – Present).
- **Assistant Lecturer** at the Faculty of Pharmacy, Ahram Canadian University (ACU), 6th October City (January 2016 – September 2016).
- **Teaching Assistant** in the Faculty of Biotechnology at Misr University for Science and Technology (MUST), 6th October City (May 2014 – December 2016).
- **Research Assistant** in the Enzymology Laboratory under the supervision of Prof. Salah A. Sheweita, Institute of Graduate Studies and Research, Alexandria University (January 2014 – May 2014).
- Responsibilities included conducting enzyme bioassays, SDS-PAGE gel electrophoresis, agarose gel electrophoresis, and Western blot analysis.
- **Medical Marketing Specialist** at Andalusia Hospitals with Prof. Dr. Hassan Abdel Salam, specializing in Interventional Radiology, Alexandria (January 2014 – May 2014).
- **Community Pharmacist** at Maha El Tayebi Pharmacies (August 2013 – November 2013).

- **Intern Pharmacist** at Professor Guha's Laboratory "RISUG®," School of Medical Science and Technology (SMST), IIT Kharagpur, India (October 2012 – February 2013).
- **Pharmacist** at Alexandria Medical Hospital's pharmacy under the supervision of Dr. Nahla (January 2012 – September 2012). Community Pharmacist at "Amr Pharmacies" Aug 2011- Feb 2012
- Community pharmacist at Kazablanca pharmacy, under supervision of Dr. Amel Hamid (my Mother)

Training and activities

- 2008 Intern Kazablanca Pharmacy Alexandria
- 2009 Intern El Ezaby Pharmacy Alexandria
- 2011 Intern Dr. Magdy Mouris Pharmacy Alexandria
- Personal Selling course at Arab Maritime Academy, Alexandria
- Communication Skills course at Faculty of Pharmacy, Alexandria
- Patient counseling at Faculty of Pharmacy, Alexandria
- ICDL Course at Faculty of Pharmacy, Alexandria

Conferences

- Presented a **student poster** titled "*Semaglutide Attenuates Hepatic Ischemia/Reperfusion Injury in Rats via Modulating GLP1/NF- κ B/Nrf2 Signaling Trajectory*" at PHS 2024, the 3rd International Conference & Exhibition on Pharmaceutical & Healthcare Sciences, held on October 23-24, 2024.
- Delivered a **professional poster** presentation titled "*Alogliptin Mitigates Diclofenac-Induced Hepatotoxicity in Rats: An Emphasis on NLRP3 Inflammasome Pathway*" at PHS 2024, the 3rd International Conference & Exhibition on Pharmaceutical & Healthcare Sciences, conducted on October 23-24, 2024.
- Participated as a **supervisor** for a student poster titled "*CAR-T Cell Therapy for Solid Tumors: Overcoming Hurdles and Embracing the Future with PD-1 Disruption*," authored by Nancy Ayman and Injy Ayman, at Duphat 2024, Dubai World Trade Center, held from January 9-11, 2024.
- Attended the **Dissemination Event** for the Online Pharmacogenomics and Personalized Medicine Postgraduate Program (OPPM) on February 22, 2024, at the Four Seasons Hotel, San Stefano, Alexandria, Egypt. OPPM is an Erasmus+ consortium that designs postgraduate diplomas and MSc programs in pharmacogenomics and personalized medicine across the Middle East and Europe.

- Participated in the **6th International Conference of Pharmaceutical Sciences** organized by Future University in Egypt (FUE), held at the Royal Maxim Palace Kempinski, New Cairo, and online, on February 14-15, 2024.
- Took part in the **International Day of Women and Girls in Science**, organized on February 11, 2023, at the Arab Academy main campus, Abu Qir, Alexandria.
- Participated in the **2024 UN International Day of Women and Girls in Science**, held on February 11, 2024, at the Arab Academy main campus, Abu Qir, Alexandria.
- Presented at the **2nd International Conference & Exhibition on Pharmaceutical and Healthcare Sciences (PHS)**, conducted in 2023.
- Attended **Biovision 2018**, held at Bibliotheca Alexandrina, Alexandria, Egypt.
- Attended **Biovision 2014**, held at Bibliotheca Alexandrina, Alexandria, Egypt.
- Participated in **Biovision 2010**, held at Bibliotheca Alexandrina, Alexandria, Egypt.
- Attended the **Society of Andrology of India (SAI) Conference** at Amity University, New Delhi, India, in December 2012.
- Participated in the **SAI Conference** in Lucknow, India, in December 2012, under the guidance of Professor Guha, President of SAI India.
- Supervised students participating in **DUPHAT 2017**.

Language and Computer Skills

- Arabic: Fluent (Mother Tongue)
- French: Fluent (DELF at Centre Culturel Français (TD, A5, A6))
- English: Fluent (National TOEFL score 560/670).
- IELTS at May 2017: Listening: 6.5-writing 8.5-speaking 7-overall:7
- FDTC

VOLUNTEERING EXPERIENCE

- • “Environmental Biotechnology: From life to energy”, Member of the scientific committee of IBSS, December 2013.
- • “Advances in Biological Sciences” symposium, Member of the organizing committee.

Personal Information:

- **Date of Birth:** 9th of May 1988
- **Marital Status:** Married
- **Citizenship:** Egyptian

References

- Prof.Dr.Amira Senbel, Professor of pharmacology and toxicology and Dean of college of pharmacy, Arab academy for science, technology and maritime transport (AASTMT).
- E-mail: amira.senbel@aast.edu
- Prof. Dr.Hosny Fouad, Professor of Biochemistry in Alexandria University and member of the founding committee of college of pharmacy, Arab academy for science, technology and maritime transport. . E-mail: drhfouad@gmail.com
- Prof. Dr.Maged Wasfy, Professor of Pharmacology and Toxicology. Department of Pharmacology and Toxicology Faculty of Pharmacy Damanhour University Egypt. (+2) 0122 3461 575
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magedwhw88@gmail.com
- Prof. Dr.Mokhtar El Zawahry, Dean of faculty of Biotechnology and vice president of Misr University for science and technology
- Prof. Mokhtar Ibrahim Yousef, Professor of Enviromental Animal Physiology and Reproductive Toxicology, Department of Enviromental Studies, former Dean of Institute of Graduate Research and Studies (IGSR), Alexandria University . E-mail: yousefmokhtar@yahoo.com yousefmokhtar@alexu.edu.eg www.igsr.alexu.edu.eg
- Prof. Dr. Salah Ahmed Sheweita, Professor of Biochemistry and Molecular Biology, former Head of Biotechnology department, Institute of Graduate Studies & Research, Alexandria University. E-mail: ssheweita@hotmail.com
- Prof. Sujoy Kumar Guha, President of Society of Andrology of India. Laboratory of “RISUG®”, School of Medical Science and Technology, Indian Institute of Technology, Kharagpur, India. E-mail : guha_sk@yahoo.com
- Dr.med. Aref El-Sewefi, Facharzt für Urologie (consultant Urologist), Masculine, Berlin, Germany.
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