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**Name:** Amany Elsayed Hussein Elnaggar

**Birthdate:** August 1, 1990

**Birthplace:** Egypt

**Nationality:** Egyptian

#### **Education:**

- **2024 August:** Ph.D. Degree in Pharmaceutical Sciences (Pharmacology and Toxicology), Faculty of Pharmacy, University of Alexandria, Egypt.
- **2019-2024:** Ph.D. student, Department of Pharmacology, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2018 April:** Master Degree in Pharmaceutical Sciences (Pharmacology and Toxicology), Faculty of Pharmacy, University of Alexandria, Egypt.
- **2012-2018:** M.Sc. Student, Department of Pharmacology, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2012:** Bachelor of Pharmaceutical Sciences, Distinction of Honor, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2007:** Graduated secondary School.

#### **Academic Employment:**

- **09/2024- Present:** Lecturer of Pharmacology and Toxicology; Faculty of Pharmacy, University of Alexandria.
- **07/2018 – 09/2024:** Assistant lecturer of Pharmacology and Toxicology; Faculty of Pharmacy, University of Alexandria.
- **09/2012 – 06/2018:** Instructor of Pharmacology, Toxicology, Biochemistry and Bioassay; Faculty of Pharmacy, University of Alexandria.

#### **Research Experience:**

- **02/2019 – 01/2020:** Intensive theoretical postgraduate courses of Pharmacokinetics, Therapeutics, advanced Biochemistry and Toxicology, Faculty of Pharmacy, University of Alexandria.
- **09/2013 - 06/2014:** Intensive practical and theoretical postgraduate courses of Physiology, Biochemistry, Advanced Pharmacology and Experimental Pharmacology, Faculty of Pharmacy, University of Alexandria.
- **09/2012 - 06/2013:** Intensive postgraduate courses of Scientific Writing, Statistics and Biostatistics, Computer Science and Medical Informatics, Physical Chemistry, Spectroscopy and Separation Techniques and Electrochemical Analytical Methods, Faculty of Pharmacy, University of Alexandria.

**Teaching experience:**

- **2024-2025:** Teaching undergraduate courses, Faculty of Pharmacy, University of Alexandria as a lecturer:
  - “Medical terminology” to Pharmacy undergraduates, PharmD clinical program (1<sup>st</sup> semester).
  - “Pharmacotherapy of cardiovascular diseases” and “Pharmacotherapy of Respiratory Diseases” to Pharmacy undergraduates, PharmD clinical program (10<sup>th</sup> semester).
  - “Pharmacology and Pharmacotherapeutics I” to Pharmacy undergraduates, PharmD program (6<sup>th</sup> semester).
- **2012- 2024:** Teaching undergraduate laboratory courses (average; 40hrs/week) of Pharmacology, Toxicology, Biochemistry, Bioassay, Cell biology, First aid and basic life support, Pharmacotherapy of Endocrine Disorders, Pharmacology II, Faculty of Pharmacy, University of Alexandria as a demonstrator and teaching assistant.

**Educational activities:**

- Supervisor for clinical Pharm D students in summer training of pharmacies (summer 2023, summer 2024)
- Supervisor for 6<sup>th</sup> year Pharm D students in the graduation research project entitled “Moment of Awareness” to raise awareness about Psychiatric Disorders (academic year 2024-2025)

**Memberships in Faculty Committees:**

- Member in the **Quality Assurance Unit** of the faculty of pharmacy (Prepare documents needed for the seventh criterion concerning academic programs in faculty of Pharmacy, Alexandria university) (02/2025- present)
- Representative Member for the department in the **Measurement and Assessment Unit** of the faculty of pharmacy (09/2024- present)

**Professional Society Memberships:**

- **2021-2023:** American Society for Pharmacology and Experimental Therapeutics (ASPET).
- **2012-present:** Egyptian Syndicate of Pharmacists.

**Seminars and Workshops:**

- **2013:** four workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria.
- **2016:** two workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria.
- **2018:** one workshop at the accredited center of “Faculty & Leadership Development Project, University of Alexandria, entitled “Exams and student evaluation systems”.
- **2019:** threes workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria, entitled “Competitive research projects proposals”, “Research ethics and plagiarism” and “Global databases”.

- **2021:** two workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria, entitled “Technical writing” and “Quality standards in teaching”.

#### **Conferences attended:**

- **3rd international conference & Exhibition on pharmaceutical & healthcare sciences “PHS 2024”**, Alexandria, Egypt (23-24/10/2024).

#### **Awards:**

- ASPET Travel Award 2022  
(American Society for Pharmacology and Experimental Therapeutics (ASPET) International Travel Award in the Graduate and Post-baccalaureate Student category).

- University of Alexandria awards for distinguished publications in the top cited journals (2019, 2024, 2025)

#### **Skills:**

- Animal care and handling for in-vivo and in-vitro experiments, drug administration via different routes and small animal surgery such as cecal ligation and puncture.
- Tissue bath experiments: rabbit intestine and guinea pig ileum.
- Mastering the technique of cannulation of femoral artery and vein in rats for blood pressure monitoring and i.v administration of drugs respectively.
- Mastering the technique of intracerebroventricular cannulation in rats.
- Mastering the technique of Immunohistochemistry.
- Advanced Computer Skills: Statistics, word processing, spread sheet, statistical software and power point presentations.

#### **Language:**

- Arabic is the native language.
- Excellent written and spoken command of English Language.

#### **Publications:**

##### **Full length articles:**

1. El-Naggar, A. E., S. M. El-Gowilly and F. M. Sharabi (2018). "The possible ameliorative effect of ivabradine on the autonomic and left ventricular dysfunction induced by doxorubicin in male rats." J Cardiovasc Pharmacol.
2. El-Naggar, A. E., M. M. Helmy, S. M. El-Gowilly and M. M. El-Mas (2023). "Adenosine A1 receptors of the medullary solitary tract arbitrate the nicotine counteraction of neuroinflammation and cardiovascular dysfunction in septic rats." Sci Rep 13(1): 17818.

3. El-Naggar, A. E., Helmy, M. M., El-Gowilly, S. M. and El-Mas, M. M. (2024). "Suppression by central adenosine A3 receptors of the cholinergic defense against cardiovascular aberrations of sepsis: role of PI3K/MAPKs/NFκB signaling." Front. Pharmacol. 15.
4. El-Naggar, A.E., Helmy, M.M., El-Gowilly, S.M., El-Mas, M.M. (2025). "The Cholinergic Amelioration of Sepsis-Induced Baroreflex Dysfunction and Brainstem Inflammation Is Negated by Central Adenosine A3 Receptors." Pharmaceuticals (Basel). 18(3):388.

#### **Abstracts:**

1. El-Naggar, A. E., M. M. Helmy, S. M. El-Gowilly and M. M. El-Mas (2022). "Central Adenosine A1 Receptors Arbitrate the Nicotine Counteraction of Cardiovascular and Autonomic Dysfunctions in Septic Rats." The FASEB Journal 36(S1).
2. El-Mas, M. M, El-Naggar, A. E., Helmy, M. M. and El-Gowilly, S. M. (2024). "Adenosine A3 Receptors Offset the Nicotine Amelioration of Sepsis-Induced Brainstem Inflammation and Depressed Reflex Bradycardia." J. Pharmacol. Exp. Ther. 389(S3): 074.
3. El-Mas, M. M, El-Naggar, A. E., Helmy, M. M. and El-Gowilly, S. M. (2024). "Central PI3K/MAPKs Pathway Provokes the Adenosine A3 Receptor Counteraction of Cholinergic Defenses Against Cardiovascular Aberrations in Septic Rats." J. Pharmacol. Exp. Ther. 389(S3): 470.
4. El-Mas, M. M, El-Naggar, A. E., Helmy, M. M. and El-Gowilly, S. M. (2025). "The cholinergic amendment of hypotensive, autonomic, and neuroinflammatory facets of sepsis is weakened by brainstem adenosine A2a receptors in rats." Physiology 2025 40:S1