



Mansoura University
Faculty of Pharmacy
Dept. of Pharmacology and Toxicology

Ahmed Gamal Abd Elhameed Helal, Ph. D



PERSONAL:

Name: Ahmed Gamal Abd Elhameed Helal.

Position: Associate Professor of Pharmacology and Toxicology.

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Date of Birth: October 1, 1986.

Place of Birth: Mansoura, Egypt.

Marital Status: Married

EDUCATION:

Ph.D. (Pharmacology and toxicology), 07/2015:

Mansoura University, Mansoura, Egypt.

Dissertation: "Controlling Experimentally Induced Heart Failure with the Aid of Diet Rich in Antioxidants and Probiotic Elements"

M.Sc. (Pharmacology and toxicology), 07/2012:

Mansoura University, Mansoura, Egypt.

Dissertation: "Effect of Complement-1 Inhibitor upon Myocardial Ischemia / Reperfusion (I/R) Injury "

B.Sc. (Pharmaceutical Sciences), 07/2008:

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt. Excellent, High Honor.

EMPLOYMENT and RESPONSIBILITIES:

2008-2012	Demonstrator in the Pharmacology and Toxicology Dept., Faculty of Pharmacy, Mansoura University , Egypt.
2012-2015	Assistant lecturer in the Pharmacology and Toxicology Dept., Faculty of Pharmacy, Mansoura University , Egypt.
2015-2017	Lecturer in the Pharmacology and Toxicology Dept., Faculty of Pharmacy, Mansoura University , Egypt
2017-2021	Lecturer & Leader of foundation team in the Pharmacology and Toxicology Dept., Faculty of Pharmacy, Horus University in Egypt
September 2021- till Now	Associate Professor of Pharmacology and Toxicology, Pharmacology and Toxicology Dept., Faculty of Pharmacy, Mansoura University and, Horus University in Egypt

TEACHING EXPERIENCE:

A. Undergraduate

- 1. General Pharmacology:** A standard course offered to the 3rd level pharmacy students. Emphasis is on cardiovascular drugs, drugs affecting respiratory and gastrointestinal systems, autacoids, cancer chemotherapy and immuno-pharmacology.
- 2. Pharmacology 2:** A standard course offered to the 4th level clinical pharmacy students. Emphasis is on drugs affecting respiratory and gastrointestinal systems, cancer chemotherapy and immuno-pharmacology.
- 3. Physiology:** A standard course offered to the 2nd level pharmacy students (clinical and general programs). Emphasis is on nervous, cardiovascular, gastrointestinal, renal, endocrine, and respiratory systems.
- 4. Pathophysiology:** A standard course offered to the 3rd level pharmacy students. Emphasis is on gastrointestinal, cardiovascular, and endocrine diseases.
- 5. Toxicology:** A standard course offered to the 5th level pharmacy students, emphasis is on carcinogenesis, teratogenesis, air pollutants and food and food additives toxicity.
- 6. Therapeutics:** A standard course offered to the 4th level pharmacy students. Emphasis is on pharmacotherapy of renal disorders.
- 7. First Aid and Trauma:** A standard course offered to the 4th level Pharmacy students.
- 8. Medical Terminology:** A standard course offered to the 2nd level clinical Pharmacy students.
- 9. Biophysics:** A standard course offered to the 1st level Pharmacy students.

10. Biostatistics: A standard course offered to the 1st level clinical pharmacy students and 4th level pharmacy students. Emphasis is on measurements of central tendency and dispersion, and tests of significance.

11. Drug Interactions: A standard course offered to the 4th level clinical Pharmacy students.

12. Drug Information: A standard course offered to the 3rd level pharmacy and 5th level clinical Pharmacy students.

13. Basic Pharmacology: A standard course offered to the 1st level Nursing students – Faculty of Nursing-Mansoura University (Partial assignment).

B. Post-Graduate:

1. Advanced Pharmacotherapeutics I: A standard course offered to 1st level Pharm-D program students. Emphasis is on pharmacotherapy of endocrine system disorders.

2. Advanced Pharmacotherapeutics II: A standard course offered to 2nd level Pharm-D program students. Emphasis is on pharmacotherapy of central nervous system and psychiatric disorders.

3. Clinical Toxicology: A standard course offered to 2nd level Pharm-D program students.

4. Drug Interactions: A standard course offered to Clinical Pharmacy Diploma students

5. Bioassay: A standard course offered to Biochemistry Diploma students.

6. Drug Discovery and Evaluation: A standard course offered to Pharmacology M.D. program students.

7. Physiology: A standard course offered to Biochemistry diploma students.

8. Molecular and Biochemical Toxicology: A standard course offered to Toxicology & Forensic Medicine diploma students.

9. Advanced Pharmacology: A standard course offered to Post Graduate Nursing students – Faculty of Nursing-Mansoura University.

RESEARCH EXPERIENCE:

- During my academic career, I worked on the cardiovascular diseases management such as cardiac ischemia reperfusion injury, heart failure and hypertension.
- I conducted some researches on inflammatory pathways involved in many diseases (atherosclerosis, cardiotoxicity, cancer, gastric ulcer, hepatitis and liver fibrosis).
- I have a technical knowledge of ELISA, PCR and Immunohistochemistry.
- In addition, I have an expertise in the use of the physiograph to investigate the vascular functions of different blood vessels and in the use of "Langendorff Apparatus" (Isolated perfused Heart).

- Peer reviewed publications:

- 1- **Helal, A.G.,** El-Kashef, H. A., and Ibrahim, T. M. (2011). **Compacting Myocardial Ischemia-Reperfusion Induced Injury by Use of Pre- and Post- Ischemic Infusion of C1-Esterase Inhibitor.** *Mansoura Journal of Pharmaceutical Sciences* 27 (2), 64-72.
- 2- Abu-Elsaad, N. M., **Abd Elhameed, A. G.,** El-Karef, A. and Ibrahim, T. M. (2015). **Yogurt containing the probacteria *Lactobacillus acidophilus* combined with natural antioxidants mitigates doxorubicin-induced cardiomyopathy in rats.** *Journal of medicinal food*, 18, 950-959.
- 3- Metwally, H. M., **Abd Elhameed. A.G.,** Salem. H. A., and Ibrahim, T. M. (2016). **EVALUATION OF ANTICANCER EFFECT OF GRAVIOLA FRUIT AND ITS EXTRACT IN EAC-BEARING MICE.** *The Egyptian journal of medical sciences*, 37 (2): 629-641.
- 4- **Abd Elhameed, A. G.,** Megahed, A. N., and Helal, M. G. (2018). **Antiasthmatic Effect of Saxagliptin on Ovalbumin-Induced Allergic Asthma in Mice.** *World J Pharm Sci*; 6(5): 54-60.
- 5- Helal M. G., Megahed A. N. and **Abd Elhameed, A. G.** (2019). **Saxagliptin Mitigates Airway Inflammation in a Mouse Model of Acute Asthma via modulation of NF- κ B and TLR4.** *Life sciences*;117017
- 6- **Abd Elhameed, A.G.,** Suliman, S. N., Elsbaey, M., Elnaggar, M. and Badria, F.A. (2021). **Mangifera indica Leaves Extracts Mitigate Experimentally Induced Oxidative Stress and Iron-Overload via Iron Chelation and Modulation of HO-1, Nrf2, and MMP-9.** *Journal of Advanced Pharmacy Research*, 5(1):169-179.
- 7- **Abd Elhameed, A.G.** (2021). **Krill oil and low-dose aspirin combination mitigates experimentally induced silicosis in rats: role of NF- κ B/TGF- β 1/MMP-9 pathway.** *Environmental Science and Pollution Research*:1-13.
- 8- Mazyed, E.A., Helal, D.A., Elkhoudary, M.M., **Abd Elhameed, A.G.,** and Yasser, M. (2021). **Formulation and Optimization of Nanospanlastics for Improving the Bioavailability of Green Tea Epigallocatechin Gallate.** *Pharmaceuticals*, 14(1): 68.
- 9- Helal, M.G. and Abd Elhameed, A.G. (2021). **Graviola mitigates acetic acid–induced ulcerative colitis in rats: insight on apoptosis and Wnt/Hh signaling crosstalk.** *Environmental Science and Pollution Research*:1-14.

- 10- Helal, M.G., Shawky, M., Elhusseiny, S., and **Abd Elhameed, A.G.** (2021). **Lactoferrin ameliorates azithromycin-induced cardiac injury: insight into oxidative stress/TLR4 /NF-κB pathway.** *Journal of Advanced Pharmacy Research*, 5 (2), 285-296.
- 11- **AG Abd Elhameed**, MG Helal, E Said, HA Salem (2021). **Saxagliptin defers thioacetamide-induced hepatocarcinogenesis in rats: A novel suppressive impact on Wnt/Hedgehog/Notch1 signaling.** *Environmental Toxicology and Pharmacology* 86, 103668.

Research projects in progress:

- 1- **Repositioning Of DPP-4 Inhibitors and SGLT2 Inhibitors as Potential Modulators for Hepatocellular Carcinoma (from 12/03/2018 till present).**

Participation rule: CO-PI

Co-researchers: Prof. Dr. Hatem Abd El-Rahman Salem, Dr. Eman Said and Dr. Manar G. Helal.

Funding agency: Mansoura University

Essay and Thesis supervision:

PhD thesis

- 1- **"Role of Certain Natural Sources Containing Lectins on the Activity of some Anticancer Drugs".**

Candidate: Hoda Mohammed El-Sayed Metwally

Date: 03/2014 till 7/2017

Co-supervisors: Prof. Tarek M. Ibrahim, Prof. Hatem A. Salem

Master thesis

- 1- **" Combating Antimycobacterial Agents-Induced Liver Injury by using Natural Products Rich in Lectins and/or Antioxidants" .**

Candidate: Khedr mahmoud khedr

Date: 07/2018 till now

Co-supervisors: Prof. Tarek M. Ibrahim.

Scientific Experience:

Reviewer at the following journals:

1- **Journal of Medicinal Foods.**

2- **Helion.**

TECHNICAL COURSES:

1. **Local and international competitive research projects (10 hr.):** June 2013.
2. **Credit Hours System (10hr):** from 17/2/2013 to 18/2/2013.
3. **International Computer Driving License (ICDL):** 2014.
4. **International Toefl (IBT):** 3/2015.
5. **Preparation of Academic Lecturer (15 hr.):** March 2015.
6. **Faculty and Leadership Development Project "FLDP" Training Courses:**
 - a. **Communication skills in different educational patterns (15hr):** January 2009.
 - b. **Effective presentation (15hr):** March 2009.
 - c. **Scientific research ethics (15hr):** November 2011.
 - d. **The behavior of the profession (15 hr.):** April 2012.
 - e. **Applying academic standards for educational program (15 hr.):** May 2012.
 - f. **Scientific publications (15hr):** May 2012.
 - g. **Time and meetings management (15 hr.):** April 2015.
 - h. **Use of Technology in teaching (15 hr.):** April 2015.
 - i. **Organizing scientific conferences (15 hr.):** April 2015.
 - j. **Financial and legal aspects of university work (15 hr.):** from May 2015.
 - k. **Strategic Planning (15 hr.):** May 2015.
 - l. **Scientific research engines and university classification (15hr):** August 2018.
 - m. **Personal website design for faculty members (15 hr.):** April 2020
 - n. **Preparing and designing electronic Exams (15 hr.):** May 2020
 - o. **E-learning & Preparation of electronic courses (15hr):** May 2020
 - p. **Concepts and nature of disability and various ways of facilitation for them, especially in education (15hr):** June 2020
 - q. **Creativity, innovation and entrepreneurship skills (15hr):** June 2020
7. **Academic Leadership Program (10 hr.):** September 2021.

WORKSHOPS, CONFERENCES AND ACTIVITIES:

1. Member of the **Public Relations Committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt, October 2016 till now.
2. Member of the **Professional Orientation Committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt, October 2016 till now.
3. Speaker and Judge at **Patient counseling campaign organized by EPSF**, faculty of pharmacy, Mansoura University, April 2016 / January 2018 Mansoura university.

4. Member in the board of Continuous Improvement and Qualifying for Accreditation Project (CIQAP)-Faculty of Pharmacy- Mansoura University.
5. Contribution in preparation of the course specification and course reports of the courses of pharmaceutical sciences offered by the department of pharmacology and toxicology, Faculty of Pharmacy, Mansoura University. (2015-till now).
6. Sharing in stating the "Mission and Vision of the Faculty of Pharmacy" as an activity of the CIQAP project, Faculty of Pharmacy, Mansoura University. (2015-2016)
7. **"Moddle Management"**, Workshop, December 1, 2015, Faculty of Pharmacy, Mansoura University, Egypt.
8. Judge at **"The Fourth Scientific Conference for pharmacy students"**, Mansoura university (March 2015)
9. Main Organizer of **"The Fifth Scientific Conference for pharmacy students"**, Mansoura University (November 2016).
10. Judge at **"The Fifth Scientific Conference for pharmacy students"**, Mansoura University (November 2016).
11. Judge at **"The Sixth Scientific Conference for pharmacy students"**, Mansoura university (April 2018).
12. Main Organizer of **"The first international conference of pharmaceutical sciences"**, Faculty of Pharmacy, Mansoura university (9/4/2017 – 11/4/2017)
13. Manager of **"Demo-Pharmacy Project"** Faculty of Pharmacy, Mansoura University (June 2017).
14. Coordinator of **"Student Communication Committee"** Faculty of Pharmacy, Mansoura University (2016- 2017).
15. Main Organizer of **"Student Initiatives Conference" Sustainable Development: Egypt 2030"**, Mansoura university (March 2018).
16. Judge at **"The sixth Scientific Conference for pharmacy students"**, Mansoura university (April 2018).

- 17.** Head of Advisory committee of "**1st Symposium of "Idea & Seminar" Series**"
Entitled: "New Trends in Cancer" (April 2017).
- 18.**Head of Advisory committee of "**1st Symposium of "Idea & Seminar" Series**"
Entitled: "New Trends in Cancer" (April 2017).
- 19.**"**Personal Leadership and Influence**" Camp. hold on 11-15 August 2018, at the
Leadership Development Institute in Helwan.
- 20.**"**Cell press**" workshop. Held on September **2018** at Mansoura University.
- 21.**Elite® Training Program for Staff Members Held on September **2019** at Horus
University-Egypt.

REFERENCES:

- **Nahed M. Elenany, Ph.D.**
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Dean of Faculty of Pharmacy, New Mansoura University.
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- **Tarek Mostafa Ibrahim, Ph.D.**
Professor of Pharmacology and Toxicology
Faculty of Pharmacy, Mansoura University.
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- **Mohamed Hesham Daba, Ph.D.**
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Faculty of Medicine, Horus University-Egypt.
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