

Curriculum Vitae

PERSONAL:

Name: Ahmed Abdelaziz Shaaban Saad.

Position: Associate professor of Pharmacology and Toxicology.

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Faculty of Pharmacy,
Mansoura University,
Mansoura, Egypt.
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ahzizo@mans.edu.eg



Date of Birth: July 25, 1982.

Place of Birth: Mansoura, Egypt.

Marital Status: Married

EDUCATION:

Ph.D. (Pharmacology and toxicology), 02/2014:

Mansoura University, Mansoura, Egypt.

Dissertation: "Effect of Olmesartan and Omega-3 Fatty Acids on Experimentally Induced Liver Inflammation"

M.Sc. (Pharmacology and toxicology), 12/2008:

Mansoura University, Mansoura, Egypt.

Dissertation: "Effect of taurine on the respiratory system of rats"

B.Sc. (Pharmaceutical Sciences), 07/2004:

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

Diploma (Clinical nutrition): 07/ 2023

Faculty of Pharmacy, Mansoura University, Mansoura, Egypt. GPA: 4 (A+)

EMPLOYMENT AND RESPONSIBILITIES:

2004-2009	Demonstrator in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt.
2009-2014	Lecturer in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt.
2014-2018	Assistant professor in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt
2018- 2020	Assistant professor in the Clinical pharmacy and Pharmacy practice Dept., Faculty of Pharmacy, Aqaba University of Technology, Jordan October 2019 till August 2020: head of department of pharmaceutics and pharmaceutical sciences and department of clinical pharmacy and pharmacy practice, faculty of pharmacy, Aqaba University of Technology, Jordan.
09/2020 – 09/2023	Associate professor in the Pharmacology and Biochemistry Dept., Faculty of Pharmacy, Delta University of Science and Technology, Egypt.
10/2023 – till now	Associate professor at faculty of Pharmacy, Jerash University, Jordan.

TEACHING EXPERIENCE:

Excellent experience with recent teaching technologies including LMS, SIS, Digital Library, Video Conference, E-exams & Question Banks

a. Undergraduate

- 1. Pharmacology 2:** for pharmacy students, Jerash University, Jordan.
- 2. Pathophysiology:** for pharmacy students, Jerash University, Jordan.
- 3. Clinical nutrition:** for pharmacy students, Jerash University, Jordan.
- 4. Pharmacology:** for physical therapy students, Jerash University, Jordan.
- 5. Clinical pharmacy:** for pharmacy students, Mansoura University, Egypt.
- 6. Anatomy and Histology:** for pharmacy students, Jerash University, Jordan.
- 7. Clinical pharmacology:** for pharmacy students, Mansoura University, Egypt.
- 8. Pharmacy practice:** for pharmacy students, Aqaba University, Jordan
- 9. Therapeutics II:** for pharmacy students, Delta University of Science and Technology, Egypt.
- 10. Communication skills in healthcare:** for pharmacy students, Aqaba University of Technology, Jordan.
- 11. Physiology:** for pharmacy students, Mansoura university, Egypt.
- 12. Biophysics:** for clinical Pharmacy students, Mansoura university, Egypt.
- 13. Pathophysiology:** for clinical pharmacy students, Mansoura university, Egypt.

14. **Pharmacology 2:** for pharmacy students, Mansoura university, Egypt.
 15. **Toxicology:** for pharmacy students, Mansoura university, Egypt.
 16. **Medical terminology:** for clinical Pharmacy students, Mansoura university, Egypt.
 17. **First aid and trauma:** for clinical Pharmacy students, Mansoura university, Egypt.
 18. **Biological standardization:** for clinical Pharmacy students, Mansoura university, Egypt.
 19. **Pathophysiology:** for pharmacy students, Aqaba university of Technology, Jordan
 20. **Pharmacology I:** for pharmacy students, Aqaba university of Technology, Jordan
 21. **Pharmacology II:** for pharmacy students, Aqaba university of Technology, Jordan
 22. **Pharmacology III:** for pharmacy students, Aqaba university of Technology, Jordan
 23. **Advanced Pharmacology:** for pharmacy students, Aqaba university of Technology, Jordan
 24. **Toxicology:** for pharmacy students, Aqaba university of Technology, Jordan
 25. **Basic pharmacology:** for clinical Pharm D students, Delta University of Science and Technology, Egypt.
 26. **Physiology:** for Pharm D students, Delta University of Science and Technology, Egypt.
 27. **Pathophysiology:** for Pharm D students, Delta University of Science and Technology, Egypt.
 28. **Pharmacology II:** for pharmacy students, Delta University of Science and Technology, Egypt.
 29. **Toxicology:** for pharmacy students, Delta University of Science and Technology, Egypt.
- b. **Post-Graduate:**
1. **Advanced Pharmacotherapeutics I:** A standard course offered to Pharm D program students.
 2. **Drug Interactions:** in Clinical Pharmacy Diploma
 3. **Pharmacotherapy:** In Pharmacology Ph.D. program
 4. **Bioassay:** in Biochemistry Diploma
 5. **Iatrogenic diseases:** In Pharmacology M.D. program
 6. **Physiology:** In Biochemistry diploma
 7. **Pharmacology:** preparative course for American board of pharmacy specialties students

Research statement:

My research interests are in the molecular mechanisms involved in a number of inflammatory illnesses, as well as the impact of various drugs on these systems (Molecular Pharmacology). Inflammation plays a crucial role in the defense of the host against infectious agents and injury, but it also plays a role in the pathophysiology of many chronic diseases. Aspects of acute and chronic inflammation that underpin disorders of many organs are orchestrated by interactions between cells in the innate immune system, adaptive immune system, and inflammatory mediators. Inflammation causes tissue injury, oxidative stress, extracellular matrix remodeling, angiogenesis, and fibrosis in a variety of target tissues through a coordinated series of similar effector mechanisms.

As a result, I completed and published research articles on the effects of various medications on a variety of diseases. I investigated the effects of taurine on lung damage in my master's thesis. The effect of taurine on isolated rat trachea and pulmonary artery, as well as putative mechanisms of action, were studied in this study. Since completing my doctoral dissertation, I've studied the effects of several medicines on hepatic diseases such as liver fibrosis caused by CCl₄ and thioacetamide, hepatitis caused by valproate, paracetamol, LPS in combination with D-galactosamine, and autoimmune hepatitis caused by concanavalin. Lung injury, pancreatitis, cardiotoxicity, and nephrotoxicity were also investigated in depth.

Nanomedicine formulations have become increasingly popular for medicinal and diagnostic purposes in recent years. Over the last few years, tremendous effort and development have been made in the subject of nanomedicine, and a number of nanomedicine formulations have been proven to have significant potential for enabling more effective and less hazardous diagnostic and therapeutic interventions. As a result, four research projects were performed with the pharmaceuticals department, analyzing the impact of nanoparticulate medications on cancer, gastric ulcer, lung injury, and hepatitis. Two projects were published, and the other two were submitted for publication.

Currently, I am collaborating with Dr. Mohamed Saleh at University of Sharjah, UAE in two research projects. One project is entitled "RhoA/ROCK inhibition attenuates glomerular permeability and inflammation induced by endothelin-1" which data were presented in DUPHAT Dubai 2022 meeting. The other project is entitled "Phosphodiesterase-5 (PDE5)

inhibitors in diabetic renal complications” and we are both still working on it. In addition, I recently started a research project with Dr. Mohamed Shaker at Eljouf university, KSA.

Finally, I formed a research group with my colleagues from the department of pharmacy, Delta University, and Mansoura University in order to provide high-quality scientific research. Many studies on ulcerative colitis, NASH, and testicular damage were completed and submitted for publication. On the other hand, we began new research projects in the areas of brain disorders as hepatic encephalopathy and parkinsonism.

Research Capabilities:

1. All aspects of handling and drug administration for experimental animals.
2. Good experience in manipulation of intact experimental animals, preparation of biological samples and isolation of organs from experimental animals for experimental procedures.
3. Analysis of biological samples using spectrophotometric, spectrofluorimetric and ELISA techniques.
4. Good experience in preparation of tissues for histopathological examination.
5. Knowledge of RT-PCR and Western blotting techniques.
6. Statistical analysis of data.

Reviewing:

1. **International Immunopharmacology:** 13 reviews
2. **Toxicology:** 2
3. **Toxicology reports:** 1
4. **Frontiers in immunology:** 1
5. **Frontiers in pharmacology:** 2

Peer reviewed publications:

- 1- **Effect of Taurine on the Respiratory System of Rats**
Ammer EM, **Shaaban AA**, Ghonem HA, Elkashef HA
Journal of Food and Pharmaceutical Sciences, 2012 Jun
- 2- **Modulation of carbon tetrachloride-induced hepatic oxidative stress, injury and fibrosis by olmesartan and omega-3**
Shaaban AA, Shaker ME, Zalata KR, El-Kashef HA, Ibrahim TM
Chemico-biological interactions, 2013 oct

- 3- **Modulation of D-galactosamine/lipopolysaccharide-induced fulminant hepatic failure by nilotinib.**
El-Agamy DS, Shebl AM and **Shaaban AA**
Human and Experimental Toxicology, 2017 Jan

- 4- **Enhanced in vitro cytotoxicity and anti-tumor activity of vorinostat-loaded pluronic micelles with prolonged release and reduced hepatic and renal toxicities**
Mohamed EA, Hashim IIA, Yusif RM, Suddek GM, **Shaaban AA**, Badria FA
European Journal of Pharmaceutical Sciences, 2017 Jan

- 5- **Cytoprotective effects of diallyl trisulfide against valproate-induced hepatotoxicity: new anticonvulsant strategy.**
Shaaban AA, El-Agamy DS.
Naunyn-Schmiedeberg's archives of pharmacology, 2017 Jun

- 6- **A comparative study between imatinib and nilotinib on Endocrine hormonal levels in patients with Chronic Myeloid Leukemia (CML)**
Najm TM, **Shaaban AA**, Suddek GM
The Egyptian Journal Of Medical Sciences, 2017 Jun

- 7- **Polymeric micelles for potentiated antiulcer and anticancer activities of naringin**
Mohamed EA, Hashim IIA, Yusif RM, **Shaaban AA**, El-Sheakh AR, Hamed MF, Badria FA
International journal of nanomedicine, 2018 Feb

- 8- **Pristimerin as a Novel Hepatoprotective Agent Against Experimental Autoimmune Hepatitis**
El-Agamy DS, **Shaaban AA**, Almaramhy HH, Elkablawy S and Elkablawy MA
Frontiers in Pharmacology, 2018 Mar

- 9- **Protective effect of pristimerin against LPS-induced acute lung injury in mice**
Shaaban AA, El-Kashef DH, Hamed MF , El-Agamy DS
International Immunopharmacology, 2018 April

- 10- **Recombinant chemotaxis inhibitory protein of Staphylococcus aureus (CHIPS) protects against LPS-induced lung injury in mice**
Ali YM, Abd El-Aziz AM, Mabrook M, **Shabaan AA**, Sim RB, Hassan R.
Clinical Immunology, 2018 Aug

11-Pristimerin protects against doxorubicin-induced cardiotoxicity and fibrosis through modulation of Nrf2 and MAPK/NF- κ B signaling pathways

El-Agamy DS, El-Harbi KM, Khoshhal S, Nishat Ahmed, Elkablawy MA, **Shaaban AA**, Abo-Haded HM

Cancer management and research, 2018 Dec

12-Dimethylfumarate ameliorates hepatic injury and fibrosis induced by carbon tetrachloride

Mostafa ME, **Shaaban AA**, Salem HA

Chemico-Biological Interactions, 2019 April

13-Effect of febuxostat on biochemical parameters of high fat diet-induced hyperlipidemia in rabbits.

Heikal MM, **Shaaban AA**, ELkashef WF, Ibrahim TM

Canadian journal of physiology and pharmacology, 2019 Jul

14-Protective role of pirfenidone against experimentally-induced pancreatitis

El-Kashef DH, **Shaaban AA**, El-Agamy DS

Pharmacological Reports, 2019 Oct

15-The c-Met inhibitor capmatinib alleviates acetaminophen-induced hepatotoxicity

Saad KM, Shaker ME, **Shaaban AA**, Abdelrahman RS, Said E

International Immunopharmacology, 2020 Feb

16-The selective c-Met inhibitor capmatinib offsets cisplatin-nephrotoxicity and doxorubicin-cardiotoxicity and improves their anticancer efficacies

Shaker ME, **Shaaban AA**, El-Shafey MM, El-Mesery ME

Toxicology and Applied Pharmacology, 2020 April

17-Anti-fibrotic activity of sitagliptin against concanavalin A-induced hepatic fibrosis. Role of Nrf2 activation/NF- κ B inhibition

MH Sharawy, DH El-Kashef, **AA Shaaban**, DS El-Agamy

International Immunopharmacology, 2021 November

18-Digoxin mitigates diethylnitrosamine-induced acute liver injury in mice via limiting production of inflammatory mediators

ME Shaker, MF Hamed, **AA Shaaban**

Saudi Pharmaceutical Journal, 2022 January

19-Combining the HSP90 inhibitor TAS-116 with metformin effectively degrades the NLRP3 and attenuates inflammasome activation in rats: A new management paradigm for ulcerative colitis

Ahmed A. Shaaban, Amir Mohamed Abdelhamid, Mohamed E. Shaker, Simona Cavalu, Adrian Marius Maghiar, Abdulrahman A. Alsayegh, Ahmad O. Babalghith, Eman El-Ahwany, Noha A. Amin, Osama A. Mohammed, Hanan Eissa, Ahmed Gaafar Ahmed Gaafar, Gaber El-Saber Batiha, Sameh Saber
Biomedicine & Pharmacotherapy, 2022 June

20-Propitious maneuvering for delivery of the phytopharmaceutical “apocynin” to induced fulminant hepatitis in BALB/c mice: in vitro and in vivo assessments

HM Anter, RM Aman, **AA Shaaban**, IIA Hashim
International Journal of Pharmaceutics, 2022 October

21-Topical application of indigo-plant leaves extract enhances healing of skin lesion in an excision wound model in rats

MA Saleh, **AA Shaaban**, M May, YM Ali
Journal of Applied Biomedicine, 2022 November

22-Formulation and microbiological ancillary studies of gemifloxacin proniosomes for exploiting its role against LPS acute pneumonia model

GA El-Emam, AM El-Baz, A Shata, **AA Shaaban**, MMA El-Sokkary, A Motawea
Journal of Drug Delivery Science and Technology, 2023 January

23-Ameliorative effect of desloratadine against cisplatin-induced renal and testicular toxicity in rats: Attention to TLR4/NLRP3 inflammasome signaling pathway

AA. Shaaban, RA. Zaghloul, HE. Kafl, DH. El-Kashef
Life Sciences, 2023 March

24-RhoA/ROCK inhibition attenuates endothelin-1–induced elevated glomerular permeability to albumin, inflammation, and fibrosis

Mohamed A Saleh, **Ahmed A Shaaban**, Iman M Talaat, Atef Elmougy, Saryia F Adra, Firdos Ahmad, Rizwan Qaisar, Adel B Elmoselhi, Eman Abu-Gharbieh, Waseem El-Huneidi, Mohamed A Eladl, George Shehatou, Hoda E Kafl
Life Sciences, 2023 April

25-Inhibition of the lectin pathway of complement activation reduces LPS-induced acute respiratory distress syndrome in mice

Youssif M Ali, Nicholas J Lynch, **Ahmed A Shaaban**, Dina E Rizk, Shaymaa H Abdel-Rahman, Priyanka Khatri, Munehisu Yabuki, Sadam Yaseen, Thomas Dudler, Gregory Demopoulos, Wilhelm J Schwaeble
Frontiers in Immunology, 2023 May

26-Valuable effects of lactobacillus and citicoline on steatohepatitis: role of Nrf2/HO-1 and gut microbiota

Ahmed M El-Baz, Amira M El-Ganiny, Doaa Hellal, Hala M Anwer, Hend A Abd El-Aziz, Ibrahim E Tharwat, Mohamed A El-Adawy, Shehab El-Din M Helal, Menna Tallah A Mohamed, Tassnim M Azb, Hanya M Elshafaey, AbdulRahman A Shalata, Sahar M Elmeligi, Noran H Abdelbary, Attalla F El-Kott, Fatimah A Al-Saeed, Eman T Salem, Mohamed M Adel El-Sokkary, Ahmed Shata, **Ahmed A Shaaban**
AMB Express, 2023 June

27-Emerging roles of tyrosine kinases in hepatic inflammatory diseases and therapeutic opportunities

Mohamed E Shaker, Hesham AM Gomaa, Mohamed A Abdelgawad, Mohamed El-Mesery, **Ahmed A Shaaban**, Sara H Hazem
International Immunopharmacology,, 2023 July

28-Mitigation of acetaminophen-induced liver toxicity by the novel phosphatidylinositol 3-kinase inhibitor alpelisib

Mohamed E Shaker, Hesham AM Gomaa, Sara H Hazem, Mohamed A Abdelgawad, Mohamed El-Mesery, **Ahmed A Shaaban**
Frontiers in Pharmacology, 2023 August

29-G protein-coupled estrogen receptor selective agonist, G1, improves the molecular and biochemical markers in a cisplatin mouse model of CKD

Hala A. Ahmed, Ahmed A. Shaaban, Mirhan N. Makled, Tarek M. Ibrahim
Chemico-Biological Interactions, 2024 May

30-G1, G protein-coupled estrogen receptor, slowdowns chronic kidney disease development in ovariectomized mice

Hala A. Ahmed, Ahmed A. Shaaban, Mirhan N. Makled, Tarek M. Ibrahim
World Journal of Pharmacy and Pharmaceutical Sciences, 2024 June

31-G protein-coupled estrogen receptor activation attenuates cisplatin-induced CKD in C57BL/6 mice: An insight into sex-related differences

Hala A. Ahmed, Ahmed A. Shaaban, Mirhan N. Makled, Tarek M. Ibrahim
Food and Chemical Toxicology 2024 December

Academic supervision:

Supervisor of Master students:

- 1- Modulation of inflammatory mediators involved in experimentally induced heart failure by using omega-3 fatty acids. **Asaad Nasseef Jassim**

- 2- A comparative study between imatinib and nilotinib on endocrine hormonal levels in patients with chronic myeloid leukemia. **Twana Mohamed Najm.**
- 3- Effect of some immunomodulating agents on experimentally-induced liver injury. **Mohammed Elsayed Mostafa.**
- 4- Effect of Febuxostat on cardiovascular consequences of high cholesterol diet in rabbits. **Mohammed Mahmoud Heikal.**
- 5- Potential effect of G protein-coupled estrogen receptor activation on experimentally induced renal injury. **Hala Ali Ahmed Ali**
- 6- Study of the effect of different drugs in prevention of cardiac fibrosis induced experimentally in rats by doxorubicin. **Neglaa Mahmoud badr**
- 7- Effect of some drugs on valproate induced hepatotoxicity: an experimental study. **Menna Mohamed helmy**
- 8- Potential impacts of some drugs on experimentally – induced insulin resistance. **Ahmed Ashraf**
- 9- Evaluation of the pharmacological knowledge of community pharmacists regarding GLP-1 agonists. **Reem Ahmed Mohamed Elmajaly**
- 10-The role of community pharmacists in the identification of drug-related problems among the elderly in Jordan. **Bushra Ali Mahmoud Almashaqba.**

Technical courses:

Faculty and Leadership Development Project "[FLDP](#)" Training Courses:

1. **Scientific research methods** (20hr): from 17/12/2006 to 20/12/2006
2. **Effective presentation** (15hr): from 10/2/2008 to 12/2/2008
3. **Scientific research ethics** (15hr): from 16/3/2008 to 18/3/2008
4. **Communication skills in different educational patterns** (15hr): from 26/10/2008 to 28/10/2008
5. **The behavior of the profession** (15 hr): from 16/11/2008 to 18/11/2008
6. **Time and meetings management** (15hr): from 16/11/2008 to 18/11/2008
7. **Quality standards in teaching process** (15 hr): from 9/1/2011 to 11/1/2011
8. **Credit Hours System** (10hr): from 17/2/2013 to 18/2/2013
9. **Local and international competitive research projects** (10 hr): from 23/6/2013 to 24/6/2013

10. **Scientific publications** (10hr): from 2/2/2014 to 3/2/2014
11. **Use of Technology in teaching** (15 hr): from 9/2/2014 to 10/2/2014
12. **Scientific research design and revision** (10hr): from 20/8/2017 to 21/8/2017
13. **References management and indexing electronically** (10hr): from 27/8/2017 to 28/8/2017
14. **Financial and legal aspects in university business** (10hr): from 24/9/2017 to 25/9/2017
15. **How to write a scientific article** (10hr): from 1/10/2017 to 2/10/2017
16. **How to design a personal website** (10hr): from 15/10/2017 to 16/10/2017
17. **Statistical analysis skills** (10hr): from 22/10/2017 to 23/10/2017
18. **Crisis and Disaster Management** (10 hr): from 28/6/2022 to 29/6/2022
19. **Combating Corruption and Defining It** (10 hr): 19/2/2024 to 20/3/2024

Workshops, conferences and activities:

- 1- Member of the **Graduates Follow-Up Office**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt (2016/2017)
- 2- Member of the **Employment Forum**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt (2016/2017)
- 3- Member of the **Marketing committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt (2016/2017)
- 4- Member of **E-learning Committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt (2016)
- 5- A team member for preparing the standards of the “**Annual Self Study**” of the Faculty of Pharmacy, Mansoura University (from 2014/2015 till 2016/2017)
- 6- Member of **Preparation of strategic plan committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt (2015/2016).
- 7- Member of the **Public Relations Committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt, October 2016 till 2018.
- 8- Member of the **Professional Orientation Committee**, Faculty of pharmacy, Mansoura University, Mansoura, Egypt, October 2016 till 2018.

- 9- Speaker and Judge at **Patient counseling campaign organized by EPSF**, faculty of pharmacy, Mansoura university, April 2016 Mansoura university
- 10-Member in the board of **Continuous Improvement and Qualifying for Accreditation Project (CIQAP)**-Faculty of Pharmacy- Mansoura University.
- 11-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. (2015-2016).
- 12-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)
- 13-"**Moddle Management**", Workshop, December 1, 2015, Faculty of Pharmacy, Mansoura University, Egypt.
- 14-"**The Supervisor of the Sixth Standard of the Jordanian Accreditation Standards**", Faculty of Pharmacy, Jerash University, Jerash, Jordan.
- 15-Judge at "**The Third Scientific Conference for pharmacy students**", Mansoura University: 26, 27/4/2014.
- 16-Judge at "**The fourth Scientific Conference for pharmacy students**", Mansoura university (March 2015)
- 17-Main Organizer of "**The fifth Scientific Conference for pharmacy students**", Mansoura University (November 2016)
- 18-Organizer of "**The first international conference of pharmaceutical sciences**", faculty of Pharmacy, Mansoura university (9/4/2017 – 11/4/2017)
- 19-Participation in "**The first international conference of pharmaceutical sciences**", faculty of Pharmacy, Mansoura university (9/4/2017 – 11/4/2017)
- 20-Participation in "**4th FUE international conference of pharmaceutical sciences**", faculty of pharmacy, future university (31/1/2017 – 2/2/2017)
- 21-Main organizer of the first international conference "**DU-PHARM 2021**", faculty of Pharmacy, Delta university (20/11/2021 – 21/11/2021)

22-A project data entitled “RhoA/ROCK inhibition attenuates glomerular permeability and inflammation induced by endothelin-1” were presented in **DUPHAT Dubai 2022 meeting** (in collaboration with Dr. Mohamed Saleh who presented the data)

23-Main Organizer of “**The Fourth Scientific Conference for pharmacy students**”, Delta University (March 2023)

24-Attendance of “**The First Pharmaceutical Sciences Conference**”, faculty of Pharmacy, Hashemite University, Jordan (25/4/2024).

25-Moderator in “**The Scientific Training Day for Pharmacists in Jerash University**”, Jerash University, Jordan (21/5/2024)

26-Attendance of “**The 6th international Conference on Integrative Approaches in Pharmacy**”, faculty of Pharmacy, Applied Science Private University, Jordan (13-14/11/2024).

MEMBERSHIPS:

The Egyptian Syndicate of Pharmacists since 2004.

References:

- **Hassan Ahmed Elkashef, Ph.D.**
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- **Mohamed Awad Saleh, Ph.D.**
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Faculty of Pharmacy, Mansoura University, Egypt
Department of Veterinary Medicine, Cambridge university, UK
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