

## Curriculum Vitae

### PERSONAL:

**Name:** Ahmed Abdelaziz Shaaban Saad.

**Position:** Associate professor of Pharmacology and Toxicology.

**Address:** Pharmacology and Toxicology Department,  
Faculty of Pharmacy,  
Mansoura University,  
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**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:

<b>2004-2009</b>	Demonstrator in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt.
<b>2009-2014</b>	Lecturer in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt.
<b>2014-2018</b>	Assistant professor in the Pharmacology Dept., Faculty of Pharmacy, Mansoura University, Egypt
<b>2018- 2020</b>	Assistant professor in the Clinical pharmacy and Pharmacy practice Dept., Faculty of Pharmacy, Aqaba University of Technology, Jordan  <b>October 2019 till August 2020:</b> head of department of pharmaceuticals and pharmaceutical sciences and department of clinical pharmacy and pharmacy practice, faculty of pharmacy, Aqaba University of Technology, Jordan.
<b>09/2020 – 09/2023</b>	Associate professor in the Pharmacology and Biochemistry Dept., Faculty of Pharmacy, Delta University of Science and Technology, Egypt.
<b>10/2023 – till now</b>	Associate professor in 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. Clinical pharmacy:** A standard course offered to the 4<sup>th</sup> level pharmacy students, Mansoura university, Egypt.
- 2. Clinical pharmacology:** A standard course offered to the 4<sup>th</sup> level clinical pharmacy students, Mansoura university, Egypt.
- 3. Pharmacy practice:** for pharmacy students, Aqaba university, Jordan
- 4. Therapeutics II:** for pharmacy students, Delta University of Science and Technology, Egypt.
- 5. Communication skills in healthcare:** for pharmacy students, Aqaba University of Technology, Jordan.
- 6. Physiology:** A standard course offered to the 2<sup>nd</sup> level pharmacy students, Mansoura university, Egypt.
- 7. Biophysics:** A standard course offered to the 1<sup>st</sup> level clinical Pharmacy students, Mansoura university, Egypt.
- 8. Pathophysiology:** A standard course offered to the 3<sup>rd</sup> level clinical pharmacy

- students, Mansoura university, Egypt.
9. **Pharmacology 2:** A standard course offered to the 3<sup>rd</sup> level pharmacy students, Mansoura university, Egypt.
  10. **Toxicology:** A standard course offered to the 5<sup>th</sup> level pharmacy students, Mansoura university, Egypt.
  11. **Medical terminology:** A standard course offered to the 2<sup>nd</sup> level clinical Pharmacy students, Mansoura university, Egypt.
  12. **First aid and trauma:** A standard course offered to the 2<sup>nd</sup> level clinical Pharmacy students, Mansoura university, Egypt.
  13. **Biological standardization:** A standard course offered to the 5<sup>th</sup> level clinical Pharmacy students, Mansoura university, Egypt.
  14. **Pathophysiology:** for pharmacy students, Aqaba university of Technology, Jordan
  15. **Pharmacology I:** for pharmacy students, Aqaba university of Technology, Jordan
  16. **Pharmacology II:** for pharmacy students, Aqaba university of Technology, Jordan
  17. **Pharmacology III:** for pharmacy students, Aqaba university of Technology, Jordan
  18. **Advanced Pharmacology:** for pharmacy students, Aqaba university of Technology, Jordan
  19. **Toxicology:** for pharmacy students, Aqaba university of Technology, Jordan
  20. **Basic pharmacology:** for clinical Pharm D students, Delta University of Science and Technology, Egypt.
  21. **Physiology:** for Pharm D students, Delta University of Science and Technology, Egypt.
  22. **Pathophysiology:** for Pharm D students, Delta University of Science and Technology, Egypt.
  23. **Pharmacology II:** for pharmacy students, Delta University of Science and Technology, Egypt.
  24. **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 CCl<sub>4</sub> 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/lipopolysacharride-induced fulminant hepatic failure by nilotinib.**  
El-Agamy DS, Shebl AM and **Shaaban AA**  
Human and Experimental Toxicology, 2017 Jan
- 4- 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
- 5- 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
- 6- 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
- 7- 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
- 8- 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
- 9- Pristimerin protects against doxorubicin-induced cardiotoxicity and fibrosis through modulation of Nrf2 and MAPK/NF-kB 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
- 10-Dimethylfumarate ameliorates hepatic injury and fibrosis induced by carbon tetrachloride**  
Mostafa ME, **Shaaban AA**, Salem HA  
Chemico-Biological Interactions, 2019 April

**11-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

**12-Protective role of pirfenidone against experimentally-induced pancreatitis**

El-Kashef DH, Shaaban AA, El-Agamy DS  
Pharmacological Reports, 2019 Oct

**13-The c-Met inhibitor capmatinib alleviates acetaminophen-induced hepatotoxicity**

Saad KM, Shaker ME, Shaaban AA, Abdelrahman RS, Said E  
International Immunopharmacology, 2020 Feb

**14-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

**15-Anti-fibrotic activity of sitagliptin against concanavalin A-induced hepatic fibrosis. Role of Nrf2 activation/NF- $\kappa$ B inhibition**

MH Sharawy, DH El-Kashef, AA Shaaban, DS El-Agamy  
International Immunopharmacology, 2021 November

**16-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

**17-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

**18-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

**19-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

**20-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

**21-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. KafI, DH. El-Kashef

Life Sciences, 2023 March

**22-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 KafI

Life Sciences, 2023 April

**23-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, Munehisa Yabuki, Sadam Yaseen, Thomas Dudler, Gregory Demopoulos, Wilhelm J Schwaeble

Frontiers in Immunology, 2023 May

**24-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

**25-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



## **26-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

### **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**

### **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

#### **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-Judge at **“The Third Scientific Conference for pharmacy students”**, Mansoura University: 26, 27/4/2014.
- 15-Judge at **“The fourth Scientific Conference for pharmacy students”**, Mansoura university (March 2015)
- 16-Main Organizer of **“The fifth Scientific Conference for pharmacy students”**, Mansoura University (November 2016)
- 17-Organizer of **“The first international conference of pharmaceutical sciences”**, faculty of Pharmacy, Mansoura university (9/4/2017 – 11/4/2017)
- 18-Participation in **“The first international conference of pharmaceutical sciences”**, faculty of Pharmacy, Mansoura university (9/4/2017 – 11/4/2017)
- 19-Participation in **“4<sup>th</sup> FUE international conference of pharmaceutical sciences”**, faculty of pharmacy, future university (31/1/2017 – 2/2/2017)
- 20-Main organizer of the first international conference **“DU-PHARM 2021”**, faculty of Pharmacy, Delta university (20/11/2021 – 21/11/2021)
- 21-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)

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

#### MEMBERSHIPS:

The Egyptian Syndicate of Pharmacists since 2004.

#### References:

- **Hassan Ahmed Elkashef, Ph.D.**  
Professor of Pharmacology and Toxicology  
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- **Mohamed Awad Saleh, Ph.D.**  
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Department of Clinical Sciences, College of Medicine, University of Sharjah, Sharjah, UAE.  
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- **Mohammed Yousef Ali, Ph.D.**  
Professor of Microbiology  
Faculty of Pharmacy, Mansoura University, Egypt  
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