

# **CURRICULUM VITAE**

## **Ahmed Seifeldin Kamel**

**Head of Pharmacology & Toxicology, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University**  
**Associate Professor of Pharmacology & Toxicology, Faculty of Pharmacy, Cairo University (Scientific distinction)**

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<b>Web of Science</b>	AAE-5375-2019
<b>H-Index</b>	7



## **Academic Degrees**

### **Bachelor of Pharmaceutical Sciences**

Bachelor of Pharmaceutical Sciences, 2008, Faculty of Pharmacy, Cairo University.

### **Master of Science**

Pharmacology & Toxicology - Title: Pharmacological study of the possible antidiabetic action of certain phosphodiesterase inhibitors in experimental rats, April 2015, Faculty of Pharmacy, Cairo University.

### **Doctor of Philosophy**

Pharmacology & Toxicology - Title: Effect of Mas receptor on D-Galactose induced cognitive impairment in ovariectomized rats, May 2018, Faculty of Pharmacy, Cairo University.

## **Awards and Achievements**

- **Best PhD thesis for year 2018 in Pharmacology and Toxicology Department, Faculty of Pharmacy, Cairo University.**
- **Best post-doctoral research for year 2020 in Pharmacology and Toxicology Department, Faculty of Pharmacy, Cairo University.**

## Public Engagement

-Ahmed's research group conducted an in-depth study, the results of which were shared in their publication, "Experimental Evidence for Diiodohydroxyquinoline-Induced Neurotoxicity: Characterization of Age and Gender as Predisposing Factors." **This work aimed to raise awareness about the neurotoxic potential of Diiodohydroxyquinoline, a widely-used anti-diarrheal medication under name "Streptoquin" in Egypt. The findings were presented at a conference titled "Fake Medications: Challenges, Global Responses, and Current Research," organized on September 24<sup>th</sup>-25<sup>th</sup>, 2019, in Cairo, Egypt. This event was a collaborative effort with Freie Universität Berlin's Cairo office.** The presentation focused on highlighting the critical need for caution and further research into the safety of common medications, underscoring the importance of age and gender in understanding the risks of neurotoxicity associated with Diiodohydroxyquinoline. **Kamel, A.S.; Mohamed, A.F.; Rabie, M.A.; Elsherbiny, M.E.; Ahmed, K.A.; Khattab, M.M.; Abdelkader, N.F. Pharmaceuticals 2022, 15, 251. <https://doi.org/10.3390/ph15020251>**".

- Dr. Ahmed is a **co-founder of the pioneering Pharmacovigilance diploma program at the Faculty of Pharmacy, Cairo University, Egypt.** This initiative, the first of its kind at the university, marks a significant milestone in the field of pharmacovigilance education. Recently, through concerted efforts with the diploma team, **Dr. Ahmed successfully secured approval from the Minister of Higher Education and the Supreme Council of Universities to elevate the program from an academic to a professional diploma.** This transformation aims to broaden the scope of pharmacovigilance awareness across both pharmaceutical and non-pharmaceutical sectors, focusing on monitoring adverse drug reactions within the Egyptian market.

-Dr. Ahmed's strategic **collaborations with the Egyptian Drug Authority (EDA) and various pharmacovigilance departments in pharmaceutical companies** have been crucial in the diploma's success, drawing considerable interest. **A notable achievement of this diploma is granting postgraduates unprecedented access to Vigibase and other global databases, a first in Egypt.** This access not only enriches the educational experience but also enhances the practical skills of professionals in detecting and managing medication-related adverse events, thereby contributing significantly to public health safety.

- In his capacity as **Vice-Chairman of the Animal Facility at the Faculty of Pharmacy, Cairo University,** Dr. Ahmed has played a pivotal role in **enhancing ethical standards in experimental animal studies.** Leveraging his position, he has organized a series of **workshops for undergraduate researchers at the Faculty of Pharmacy.** These workshops, designed to familiarize students with the ARRIVE (Animal Research: Reporting of In Vivo Experiments) guidelines, aim to instill a strong ethical framework for conducting animal research. This initiative has been undertaken in collaboration with the Vice-Dean for Community Affairs at the Faculty of

Pharmacy, Cairo University, ensuring a comprehensive educational experience that underscores the importance of ethics in experimental practices.

- To align with the ARRIVE (Animal Research: Reporting of In Vivo Experiments) guidelines, Dr. Ahmed **transitioned from live animal teaching methods to virtual practical modules for basic pharmacology. He utilized the Strathclyde Pharmacology Simulations programs, with authorized permission from Strathclyde University, Glasgow.** This innovative approach is employed in undergraduate pharmacology courses to teach both in vitro and in vivo techniques. The primary aim is to reduce animal usage in compliance with ethical standards. These virtual modules are designed around the principles of problem-based learning (PBL), fostering an environment where students develop their understanding through concept mapping. This method encourages active learning and critical thinking, as opposed to relying on memorization. These preactical modules have been disseminated to be used in faculty of pharmacy, King Salman University.

- Develop **Drug-info app** to serve the healthcare community regarding drug interaction and report adverse effects. This app will be funded by ECU in collaboration with Faculty of engineering, ECU

## Career History and Professional Experience

### Titles

- **Researcher in Aya Alaa lab in Helmy Institute of Biomedical Sciences, Zewail City of Science and Technology (May 2015 – May 2018).**
- **Vice Chairman of Animal Facility, Faculty of Pharmacy, Cairo University (2018 – 2023).**
- **Associate Professor at Department of Pharmacology & Toxicology, Faculty of pharmacy Cairo University.**
- **Head of Pharmacology & Toxicology based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Head of Research Ethics Committee (REC) based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Member of the First Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (ECU) (28/9/2020-till present).**

## **Academic Activities**

- **Head of Technical support and follow up of Quality Assurance Center based on declaration from the Board of Faculty of Pharmacy and drug technology, Egyptian Chinese University (1/9/2023-till present).**
- **Member of internal revising committee of Quality Assurance Center, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Head of 3<sup>rd</sup> year control for Final written exams based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Head of chemicals and glassware inspection committee based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Supervisor of Faculty laboratories based on declaration from the Board of Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (1/9/2023-till present).**
- **Officer of Department of Pharmacology and Toxicology in the committee that organize the official site of Faculty of Pharmacy, Cairo University (September 2015-2016).**
- **Member of Device Committee at Department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University (Sep 2014-Aug 2023).**
- **Organizer of Drug profile project for third year students, Faculty of Pharmacy, Cairo University (2009-2015).**
- **Officer of Department of Pharmacology and Toxicology department for undergraduate courses in Performance Appraisal and Quality Assurance Unit, Faculty of Pharmacy, Cairo University (May 2016 - 2018).**
- **Head and Coordinator of Pharmacology and Toxicology Department Conference, Cairo University, 4<sup>th</sup> March 2020.**
- **Member of Exam control for undergraduates of bachelor and Pharm D programs, Faculty of Pharmacy, Cairo University (2009 – 2023).**

- Academic advisor for first- and second-year students **based on declaration from the Board of Faculty of Pharmacy, Cairo University (1/10/2021-21/8/2023).**
- Oral examiners in several pharmacy faculties; BUE, Heliopolis, ECU, FUE.

## Projects

**1- Principal developer of Drug-info Application as a project funded by Egyptian Chinese University (Ongoing project to be launched in apple and Google play stores).**

**2- IT-based international diploma and professional certificate in Clinical toxicology”-ITCT (2015-2020).**

**Participant in the Erasmus project entitled “IT-based international diploma and professional certificate in clinical toxicology”-ITCT (2015).**”Collaboration between different Universities from Egypt, The UK, Malta and Sweden” (January 2018 – present).

**3- National Research Centre (NRC) research grant entitled “Development of new multi-target drugs for the treatment of osteoporosis” 2019-2024.**

## Postdoctoral International Training and Joint Research

Dr Ahmed had got **Postdoctoral international training funded by Erasmus plus** under supervision of **Professor Dr Matthew Wright** ([Matthew.Wright@newcastle.ac.uk](mailto:Matthew.Wright@newcastle.ac.uk)) and **Dr Tarek Mamdouh** ([Tarek.Abdelghany@newcastle.ac.uk](mailto:Tarek.Abdelghany@newcastle.ac.uk)) in **institute of Cellular Medicine Medical School, New Castle University, Newcastle Upon Tyne NE2 4HH, UK.** As continuing to this collaboration, Dr Ahmed is conducting joint research with Prof Dr Matthew and Dr Tarek as a follow up to their research on ionic liquids where **Dr Ahmed is a head of neurobehavioral team responsible for studying neurobehavioral effects of ionic liquids** (liquids that induce common autoimmune hepatitis in UK and caused several AIH cases) **on animals in relevance to gender.** This project is continuing to the findings of a grant from the Liver NORTH charity (to A.C.L and M.C.W.), the MRC (in the form of an ITTP studentship supporting A.C.L.) and supported by the Newton-Mosharafa Fund (in the form of a studentship supporting T.M.A); the National Institute for Health Research via the Health Protection Research Unit (NIHR HPRU) in Chemical and Radiation Threats and Hazards in partnership with Public Health England (PHE) and the Blood and Transplant Research Unit (NIHR BTRU) in Organ Donation and Transplantation. **This joint research is under-publication process.**

## Research interest

Neuropharmacology, Biochemical signaling, Inflammation, Endocrine, Diabetes and Neurotoxicological studies.

## Research Activities

### 1-Publications

- 1- Influence of  $\beta$ -catenin Signaling on Neurogenesis in Neuropsychiatric Disorders: Anxiety and Depression. Rana A. El-Kadi, Noha F. AbdelKader, Hala F. Zaki, **Ahmed S. Kamel**. Drug Development Research (In press, ID: DDR-23-0877.R1- 2024).
- 2- The preferential effect of Clemastine on F3/Contactin-1/Notch-1 compared to Jagged-1/Notch-1 justifies its remyelinating effect in an experimental model of multiple sclerosis in rats. Ibrahim SM, **Kamel AS**, Ahmed KA, Mohammed RA, Essam RM. Int Immunopharmacol. 2024 Jan 16; 128:111481. Doi: 10.1016/j.intimp.2023.111481. Epub ahead of print. PMID: 38232534.
- 3- Novel quinazolinone Derivatives: Design, synthesis and in vivo evaluation as potential agents targeting Alzheimer disease. Moftah HK, Mousa MHA, Elrazaz EZ, **Kamel AS**, Lasheen DS, Georgey HH. Bioorg Chem. 2024 Feb; 143:107065. Doi: 10.1016/j.bioorg.2023.107065. Epub 2023 Dec 25. PMID: 38150939.
- 4- Preclinical Evidence for the Role of the Yin/Yang Angiotensin System Components in Autism Spectrum Disorder: A Therapeutic Target of Astaxanthin. Samra, A.I.; **Kamel, A.S.**; Abdallah, D.M.; El Fattah, M.A.A.; Ahmed, K.A.; El-Abhar, H.S. *Biomedicines* 2023, 11, 3156. <https://doi.org/10.3390/biomedicines11123156>
- 5- Dapagliflozin modulates neuronal injury via instigation of LKB1/p-AMPK/GABAB R2 signaling pathway and suppression of the inflammatory cascade in an essential tremor rat model. **Kamel AS**, Farrag SM, Mansour HM, Nassar NN, Saad MA. Expert Opin Ther Targets. 2023 May 2:1-20. Doi: 10.1080/14728222.2023.2206955. Epub ahead of print. PMID: 37089040.
- 6- Modulation of p38 MAPK and Nrf2/HO-1/NLRP3 inflammasome signaling and pyroptosis outline the anti-neuroinflammatory and remyelinating characters of Clemastine in EAE rat model. Tarek K. Motawi, Shohda A. El-Maraghy, **Ahmed S. Kamel**, Salma E. Said, Mona A. Kortam. Biochemical Pharmacology, Volume 209, 2023., 115435, ISSN 0006-2952, <https://doi.org/10.1016/j.bcp.2023.115435>.
- 7- Boosting amygdaloid GABAergic and neurotrophic machinery via dapagliflozin-enhanced LKB1/AMPK signaling in anxious demented rats. **Ahmed S. Kamel**, Ahmed Wahid, Noha F. Abdelkader, Weam W. Ibrahim, Life Sciences, Sep 2022. <https://doi.org/10.1016/j.lfs.2022.121002>.
- 8- Dapagliflozin as an autophagic enhancer via LKB1/AMPK/SIRT1 pathway in ovariectomized/d-galactose Alzheimer's rat model. WW Ibrahim, **AS Kamel**, A Wahid, NF Abdelkader – Inflammopharmacology, April 2022. <https://doi.org/10.1007/s10787-022-00973-5>

- 9-** Role of PI3K/Akt axis in mitigating hippocampal ischemia-reperfusion injury via CB1 receptor stimulation by paracetamol and FAAH inhibitor in rat. Sherif S. Abdel Mageed, Ramy M. Ammar, Noha N. Nassar, Helmy Moawad, **Ahmed S. Kamel**. *Neuropharmacology* 2022, 207, 2022, 108935. <https://doi.org/10.1016/j.neuropharm.2021.108935>
- 10-** Experimental Evidence for Diiodohydroxyquinoline-Induced Neurotoxicity: Characterization of Age and Gender as Predisposing Factors. **Kamel, A.S.**; Mohamed, A.F.; Rabie, M.A.; Elsherbiny, M.E.; Ahmed, K.A.; Khattab, M.M.; Abdelkader, N.F. *Pharmaceuticals* 2022, 15, 251. <https://doi.org/10.3390/ph15020251>
- 11-** Sesquiterpene lactones; Damsin and Neoambrosin suppress cytokine-mediated inflammation in complete Freund's adjuvant rat model via shutting Akt/ERK1/2/STAT3 signaling. Shymaa I.A.Mahmoud, Mohamed N.A.Khalil, Enas H.Abdelrahman, Hamida M.El-Gohary, **Ahmed S.Kamel**. *J Ethnopharmacol* (2020). <https://doi.org/10.1016/J.JEP.2020.113407>
- 12-** Immunomodulatory effect of diallyl sulfide on experimentally induced benign prostate hyperplasia via the suppression of CD4+T/IL-17 and TGF- $\beta$ 1/ERK pathways. Elbaz, E.M., Amin, H.A.A., **Kamel, A.S.** et al. Immunomodulatory effect of diallyl sulfide on experimentally induced benign prostate hyperplasia via the suppression of CD4+T/IL-17 and TGF- $\beta$ 1/ERK pathways. *Inflammopharmacol* (2020). <https://doi.org/10.1007/s10787-020-00743-1>
- 13-** Vildagliptin Attenuates Huntington's Disease through Activation of GLP-1 Receptor/PI3K/Akt/BDNF Pathway in 3-Nitropropionic Acid Rat Model. Noha H. Sayed, Nevine Fathy, Mona A. Kortam, Mostafa A. Rabie, Ahmed F. Mohamed, **Ahmed S. Kamel** *Neurotherapeutics* **volume** 17, pages252–268(2020).
- 14-** Stimulation of ACE2/ANG(1–7)/Mas Axis by Diminazene Ameliorates Alzheimer's Disease in the D-Galactose-Ovariectomized Rat Model: Role of PI3K/Akt Pathway. **Kamel, A.S.**, Abdelkader, N.F., Abd El-Rahman, S.S. et al. *Mol Neurobiol*. 2018 Oct;55(10):8188-8202. Doi: 10.1007/s12035-018-0966-3. Epub 2018 Mar 7.
- 15-** Beneficial effects of certain phosphodiesterase inhibitors on diabetes mellitus in rats. **Kamel, A.S.**, Eid, N., El-Sayed, M.E. Volume 52, Issue 2, December 2014, Pages 179-189. *Bulletin of Faculty of Pharmacy, Cairo University*.
- 16-** Sulforaphane's Role in Redefining Autophagic Responses in PCOS-Associated Depression: The SIRT1/AMPK/LKB1 Pathway Connection. **Ahmed S Kamel**, Sarah S El-Sayed, Nesrine S EL Sayed. (Under Final step of Review in *European journal of Pharmacology*; EJP-68313)
- 17-** Vilazodone alleviates neurogenesis-induced anxiety in the chronic unpredictable mild stress female rat model: Role of Wnt/ $\beta$ -catenin signaling. Rana A. El-Kadi, Noha F. AbdelKader, Hala F. Zaki, **Ahmed S. Kamel** (Under Final step of Review in *Molecular Neurobiology*; MOLN-D-23-00968).

## 2- Peer Reviewer

28 reviewed papers were verified on web of science site:  
<https://www.webofscience.com/wos/op/peer-reviews/summary>

### 3- Editor in Journals

Guest editor in Jove Visualized Journal of Experiments for Methods Collection Proposal entitled “Recent advancements and Modifications in Rodent Behavioral Testing”.

### 4- Conferences

1. Poster Presentation “The potential effect of certain phosphodiesterase inhibitors on diabetes mellitus in rats” at the 4<sup>th</sup> scientific conference of Faculty of Pharmacy Cairo University, 24-25<sup>th</sup> April 2013.
2. Poster Presentation at “Invitro study of PDE inhibitors on isolated rat beta-islets cells” at 6<sup>th</sup> Global Diabetes Summit and Medicare Expo” held on November 02-04, 2015, Dubai, UAE.
3. Poster Presentation “Synthetic approaches and design of different functionalized quinazolinone derivatives as anticholinesterases” at 3<sup>rd</sup> International Conference of Faculty of Pharmacy, Ain Shams University “Sustainability and Innovation in Pharmaceutical Research and Industry” November 19-20, 2023.
4. Poster Presentation “Effect of Flibanerlin on Cognitive impairment in Rat Depression Model” at 11<sup>th</sup> scientific conference of Faculty of Pharmacy, Cairo University, 14-15<sup>th</sup> May 2023.
5. Poster Presentation “Neuroprotective effect of dapagliflozin in an animal model of mania induced by sleep deprivation” at 11<sup>th</sup> scientific conference of Faculty of Pharmacy, Cairo University, 14-15<sup>th</sup> May 2023.
6. Poster Presentation “Cardiotoxicity of Saxagliptin in type-2 diabetes rat model: Role of DDP-4 in the regulation of neuropeptide tone” at 1<sup>st</sup> International Scientific Conference of School of Pharmacy, New Giza University, 21-22 June 2023.
7. Poster Presentation “Therapeutic Role of Certain Serotonin Modulators in a Rat Model of Fibromyalgia” at the 2<sup>nd</sup> international Conference of The Faculty of Pharmacy, Delta University for Science and Technology, 2-3 December 2023.

### 5- Research and Statistical Analysis Programs

1. **Any-maze Behavioral tracking software** to analyze animal behavior in behavioral labs.
2. **Graph Pad Prism analysis program** for biostatistics analysis, scientific graphing, and curve fitting.
3. **SPSS program** for Statistical Data analysis
4. **Reference manager software** to handle references and full-text documents, and citations while writing thesis and articles.
5. **Mendeley program** to handle and share references as well full-text documents, and citations while writing thesis and articles.



6. **Principle component analysis technique**, a statistical procedure that uses an orthogonal transformation to convert a set of observations of possibly correlated variables into a set of values of linearly uncorrelated variables.

7. **R, C++, python coding** and ongoing applying of them in advanced models of **computational biology and bioinformatics**.

8. Network pharmacology and ability to construct Disease-target and Drug-target networks by **Cytoscape network** then compounding both with elucidation of protein-protein interaction (PPI) by **String Network** database besides using TCMP database.

9. **Application of Gene Ontology by Kyoto Encyclopedia of Genes and Genomes (KEGG) and Functional enrichment analysis genes** using **DAVID database, g:Profiler and ShinyGO**.

10. **Installation of behavioral equipment of Ugo-Basile, Italy in Clinical Toxicology Lab** (Multi 8-arm maze, Elevated plus maze, Morris water maze, Activity cage, Plethysmometer, Rotarod open-field and Object recognition task).

## 6- Research Experience and Techniques

1. Wide experience in **conducting neurobehavioral tasks (13 apparatuses)** to evaluate sensory, cognitive, and psychiatric domains in rodents. Dr Ahmed has experience to apply different analytical techniques to interpret animal behavior using animal tracking software like any-maze together with factorial statistical analysis to figure out the possible animal behavior under different stimuli and environmental conditions.

2. ***In vitro* isolation of beta-islets from pancreas of rats by collagenase enzyme using stereomicroscope.**

3. **Western blotting technique for measurement of protein expressions.**

4. **Intracranial injections in rats using stereotaxic apparatus.**

5. **Induction of Alzheimer's animal model through performing ovariectomy surgery followed by D-galactose injection.**

6. **Induction of Diabetes mellitus in rats using Streptozotocin.**

7. **Hs-2200 High resolution Black/White ultrasound imaging system from Honda electronics Co., Ltd.**

8. **Nerve conduction of sciatic nerve using Lab chart 7 & ADI instrument nerve conduction chamber with analysis of biphasic action potential, nerve conduction velocity, absolute and relative refractory periods.**

9. Application of **ARRIVE guidelines**; Animal Research: Reporting of In Vivo Experiments as a checklist of recommendations maximizing the quality and reliability of published research, and enabling others to better evaluate and reproduce it.
10. **Writing review articles and discussing systemic reviews** including manipulation of search strategy and other methodological analysis.
11. **Local Field potential recordings using ADI instrument and stereotaxic technique in CA1 and lateral hypothalamus (Under training).**

<b>Teaching Courses</b>	
<b>Universities</b>	<b>Course</b>
<b>Undergraduate Courses in Faculty of Pharmacy-Cairo University (Bachelor of Pharmacy Program)</b>	Pharmacology I - FOPCU Pharmacology II- - FOPCU Pharmacology III - FOPCU Biostatistics and Biological Standardization of Drugs- FOPCU Toxicology - FOPCU First aid- FOPCU
<b>Undergraduate Courses in Faculty of Pharmacy-Cairo University (Clinical Program)</b>	Pharmacology1 - FOPCU Pharmacology-2 - FOPCU Toxicology and Forensic Chemistry - FOPCU Clinical Therapeutics-1 - FOPCU Clinical Pharmacology - FOPCU Clinical Therapeutics-2 - FOPCU Clinical Respiratory system diseases - FOPCU Clinical Gastrointestinal system diseases - FOPCU Oncology - FOPCU First aid - FOPCU
<b>Undergraduate Courses In Future University in Egypt &amp; Egyptian Chinese University</b>	Medical Terminology (MD101), Faculty of Pharmacy, ECU (2020-2022). Pharmacology-1, Faculty of Physiotherapy, ECU (2020-till now). Drug Abuse, Faculty of Pharmacy, FUE (2020-2021). Toxicology, Faculty of Pharmacy, FUE (2020-2021). Pharmacology-1 Faculty of Pharmacy, FUE (2022-till present). Pharmacology-2 Faculty of Pharmacy, FUE (2022- till present).

	<p>Pharmacology-3, Faculty of Pharmacy, ECU (2023-2024).</p> <p>Toxicology, Faculty of Pharmacy, ECU (2023-2024).</p> <p>Pathology, Faculty of Pharmacy, ECU (2022-2023).</p>
<p><b>Postgraduate Courses in Faculty of Pharmacy-Cairo University</b></p>	<p>Practical module of Experimental Pharmacology course, Master Program- FOPCU (2010-2012).</p> <p>Pharmacovigilance-1 and -2 beside Pharmacotherapy and Drug-induced adverse effect courses in Pharmacovigilance Diploma, Faculty of Pharmacy, Cairo University (2018-till present).</p> <p>Biostatistics course in Clinical Toxicology Diploma, Faculty of Pharmacy, Cairo University.</p>
<p><b>Postgraduate Courses in British University of Egypt</b></p>	<p>Clinical Pharmacology and Toxicology Module, Pharmacology Master's Degree Program, 2022-2023.</p>

## Teaching Experience and Skills

- Delivered **clear and logical online lectures** that help the students to understand the point of each lecture, as well as make the content easy to follow and recall.
- Expert in **face-to-face and online environments**, that is crucial to engage students with the course. This makes the course interesting and not only motivates student work, but it also promotes student success. This allows intertwining interesting videos, and examples into lectures using several applications as google classrooms, meet and zoom.
- **Teaching & research experience**, particularly in a laboratory environment.
- **Knowledge of education and market trends as well challenges** in assigned content areas i.e. Medicine.
- Knowledge of **STEM publishing**
- Demonstrated ability to deliver **excellent presentations for large and small groups**.
- Experience in **networking with scientists and decision makers**.
- Experience in **public speaking and creating engaging presentations for teachers, researchers, libraries, and decision makers**.
- **Practical coordinator of Pharmacology-1 team (303, PO701, PO501, POC401)**: created interactive modules that apply perception of students to theoretical lectures with cardiovascular charts using Strathclyde pharmacology simulation program.
- **Practical coordinator of Pharmacology-2 team (302)**: created flexible structure for drug profile project that enable 3<sup>rd</sup> year students to cooperate and search for new drugs as well reveal the new trends and updates in the pharmaceutical sciences.

- **Practical coordinator of Biostatistics team (306):** created statistical modules through reviewing published research to motivate the students to link their learned statistical basics with the applied one.
- **Creating practical modules of basic pharmacology** based on **Strathclyde Pharmacology Simulations programs** for teaching in vitro and in vivo techniques in undergraduates Pharmacology courses.

## Courses, Certificates, Workshops & Webinars

- Certified **Project Management course (32 hours)** from **ESLSCA, Egypt** after presenting a project using work breakdown structure, Gantt chart and passing through all steps of project management from initiation to planning and execution till closure and how to engage with stakeholders before the release of new Anti-MS drug (12/2-7/3/2023).
- Certified **Basics of Tissue culture and cell lines practical training** from **Vacsera, Egypt** on using different types of cell lines and sub culturing beside precautions during handling and preservation of cells “31/1-6/2/2023”.
- Certified Course from **Nasser Higher Military Academy**. Course entitled “Methods of Thinking and Future Studies Number 19” hold in Center of Strategic Thinking for Military Forces, 18/9-5/10/2022.
- **Three Online Workshops** certified from **Nature Research Academies** and **STDF, Egypt**. Workshops were about how to design a and write a research manuscript and how to write a protocol to obtain different grants. Workshops entitled “Research Methodology, Grant writing, Writing Research paper”, 17-27/7/2022.
- Certified Workshop entitled “**How to apply Competency Based Learning (CBL)**” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 18/7/2022.
- Online webinar about “**Supercharge your image analysis with advanced AI methods**” promoted by Bitesize Bio webinars and Zeiss, 14/7/2022.
- Online Course about “**Mobile applications**” by faculty and leadership center at Cairo University (FLDC), 30-31/3/2022
- Online Certified Course about “**Academic advisor for Bachelor of Pharmacy- Pharm D**” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 16/2/2022.
- Online Certified Course about “**Critical thinking**” by faculty and leadership center at Cairo University (FLDC), 1/2022
- Online Certified Course about “**Specialized workshop in Quality Practice**” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 12/10/2021.
- Online Certified Course about “**Interactive E-learning**” by faculty and leadership center at Cairo University (FLDC), 10/2021

- Online Course workshop about “**Fundamentals of Integrated Learning**” by faculty and leadership center at Cairo University (FLDC), 8/2021
- Online workshop about “**HTA Education**” organized by Vintura at 12-14<sup>th</sup> January 2020 in collaboration with **Unified Procurement Authority**.
- Online Certified workshop about “**H-index, Impact factor and Citation**” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 27/8/2020.
- Certified Workshop about “**Fundamentals of Photoshop: Towards designing a Graphical Abstract**” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 20/1/2020.
- Certified Course about “**Stress management**” by faculty and leadership center at Cairo University (FLDC), 2019
- Certified Training Course entitled “**E-Learning Management system**” in E-learning Competence Centre for E-Learning at Ministry of Communications and Information technology (MCIT), 2<sup>nd</sup>-4<sup>th</sup> July 2018.
- Certified workshop entitled “**Essentials of Pharmacovigilance Practice: An Overview**” by Drug Manufacturing Unit, Faculty of Pharmacy, Cairo University, 14<sup>th</sup> May 2018.
- Certified Course about “**Fundamentals of Clinical Trials**” by faculty and leadership center at Cairo University (FLDC), 2018.
- Certified Course about “**University Management**” by faculty and leadership center at Cairo University (FLDC), 2017.
- Certified Course about “**Citation managers software; Endnote vs mendely**” by Faculty of Pharmacy, Cairo University, 2017.
- Certified Course about “**Creative Thinking**” by faculty and leadership center at Cairo University (FLDC), 2016.
- Certified Course about “**Effective Teaching Skills**” by faculty and leadership center at Cairo University (FLDC), 2016.
- Certified Course about “**Strategic Planning**” by faculty and leadership center at Cairo University (FLDC), 2016.
- Certified Course about “**University Code of Ethics**” by faculty and leadership center at Cairo University (FLDC), 2016.
- Certified Course about “**Exams and Students Evaluation System**” by faculty and leadership center at Cairo University (FLDC), 2015
- Certified Course about “**International Publishing of Scientific Research**” by faculty and leadership center at Cairo University (FLDC), 2015
- Certified Course about “**Legal and Financial Aspects in University Environment**” by faculty and leadership center at Cairo University (FLDC), 2014
- Certified Training Course entitled “**Statistical Data Analysis using SPSS- Level 1**” by The Institute of Statistical Studies and Research, 7<sup>th</sup> Dec 2012-11<sup>th</sup> Jan 2013.

- Certified Course about “**Conference Organization**” by faculty and leadership center at Cairo University (FLDC), 2013.
- Certified Course about “**Use Technology in Teaching**” by faculty and leadership center at Cairo University (FLDC), 2013
- Certified Course about “**Competing for Research Funds**” by faculty and leadership center at Cairo University (FLDC), 2012
- Certified Course about “**The Credit Hour Systems**” by faculty and leadership center at Cairo University (FLDC), 2012.
- Certified Course about “**Essentials of Pharmacovigilance Practice: An Overview**”
- ICDL Holder (Windows, Word, Excel, IT, Access, Power point and Networks), 2010.

## Training internship

- Two weeks training in quality control department at “6<sup>th</sup> October Company”, 2006.
- Manager and Pharmacist of Al-Atbaa pharmacy, 2009-till present.
- Statistical Data analysis using SPSS, Institute of statistical studies and research, 7<sup>th</sup> December 2012-11<sup>th</sup> January 2013.
- Training at Alexandria University as part of the capacity building of the team members working in the ITCT project on stereotaxic technique, immunostaining, blood pressure and baroreflex responses measurements, 15-17<sup>th</sup> July 2018.
- ITCT pilot training for E-labs in E-learning competence Centre at Ministry of communications and information technology (MCIT), 2<sup>nd</sup>-4<sup>th</sup> July 2018.
- Training in Newcastle University on protein and gene analysis techniques; western blot and polymerase chain reaction under supervision of Professor Matthew Wright, Institute of Cellular Medicine, Medical School, Newcastle University, Newcastle upon Tyne funded by Erasmus plus project entitled “IT-based international diploma and professional certificate in clinical toxicology”-ITC, 28 August-5 September 2018.
- Training on installation and running Ugo-Basile instruments in Egypt, January 2019.