

Curriculum Vitae



Name: Ahmed Seif El-Din Kamel Abd EL-Wahab El-Deeb
Title: Lecturer
Department: Pharmacology and Toxicology
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Education:

- **Academic Degrees**

Bachelor

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

Master of Science

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

Doctor of Philosophy

Pharmacology and Toxicology, Title: Effect of Mas receptor on D-galactose-induced cognitive impairment in ovariectomized rats, May 2018, Cairo University.

- **Research interest**

Diabetes, Alzheimer's disease, Molecular Neuropharmacology, Molecular biology, Inflammation and Cardiovascular system.

- **Research Experience and Techniques**

1. *In vitro* isolation of beta-islets from pancreas of rats by collagenase technique using stereomicroscope under supervision of Prof. Dr. Mostafa El-Sayed, Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.
2. Western blotting technique for measurement of protein expressions in Zewail city of Science and Technology under supervision of Prof. Dr. Marwan Emara, Professor of Cancer Biology, Zewail city of Science and Technology.
3. Real time Polymerase Chain Reaction technique (RT-PCR) for assessment of gene expressions using Taqman assay in Zewail city of Science and Technology under

supervision of Prof. Dr. Marwan Emara, Professor of Cancer Biology, Zewail city of Science and Technology.

4. Intracranial injections in rats using stereotaxic apparatus in Faculty of Pharmacy, Alexandria University, under supervision of Prof. Dr. Mahmoud El-Mas, Professor of Pharmacology and Toxicology, Alexandria University.
5. Primer design for assessing gene expression of proteins in conventional PCR in Faculty of Pharmacy, Alexandria University, under supervision of Assistant Prof. Dr. Ahmed Waheed, Assistant Professor of Pharmacology and Toxicology, Alexandria University.
6. Immunohistochemical analysis of protein expressions as tissue based technique in Faculty of Pharmacy, Alexandria University, under supervision of Prof. Dr. Mahmoud El-Mas, Professor of Pharmacology and Toxicology, Alexandria University.
7. Cardiovascular techniques such as femoral cannulation, baroreflex sensitivity and heart rate variability in Faculty of Pharmacy, Alexandria University, under supervision of Prof. Dr. Mahmoud El-Mas, Professor of Pharmacology and Toxicology, Alexandria University.
8. Induction of Alzheimer's disease by performing ovariectomy surgery followed by D-galactose injection in Faculty of Pharmacy, Cairo University under supervision of Prof. Dr. Mahmoud Khattab, Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.
9. Induction of Diabetes mellitus in rats using Streptozotocin under supervision of Prof. Dr. Mostafa El-Sayed, Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.
10. High-performance liquid chromatography and Mass spectroscopy analysis in Faculty of Pharmacy, Cairo University under supervision of Dr. Mohamed Khaled, Lecturer of Analytical chemistry, Faculty of Pharmacy, Cairo University.
11. Deep resolution and diagnosis of cardiovascular compartments using Hs-2200 High resolution Black/White ultrasound imaging system from Honda electronics Co., Ltd.

• **Programs and analysis**

1. ICDL license in Microsoft office programs.
2. Image analysis of immunohistochemical and western blot images using image J analyzer program.
3. Graph Pad Prism analysis program for biostatistics analysis, scientific graphing and curve fitting.
4. Statistical Data analysis using SPSS program.
5. Creating practical modules of basic pharmacology based on Strathclyde Pharmacology Simulations programs for teaching in vitro and in vivo techniques in undergraduates Pharmacology courses.
6. Reference manager software to handle references and full-text documents, and citations while writing thesis and articles.
7. Mendeley program to handle and share references as well full-text documents, and citations while writing thesis and articles.
8. The sophisticated video-tracking system ANY-maze Behavior Tracking Software for recording animal activity and movement during behavioral tests.

- 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

Teaching Courses:

	Course Title
Undergraduate Courses (General Program)	Pharmacology I
	Pharmacology II
	Pharmacology III
	Biostatistics and Biological Standardization of Drugs
	Toxicology
	First aid
Undergraduate Courses (Clinical Program)	Pharmacology1
	Pharmacology-2
	Toxicology and Forensic Chemistry
	Therapeutics-1
	Clinical Pharmacology
	Therapeutics-2
	Respiratory system diseases
	Gastrointestinal system diseases
	Oncology
	First aid
Postgraduate Courses	Lecturer assistant in Experimental Pharmacology course (Master)
	Lecturer in Pharmacotherapy and Drug-induced adverse effect courses in Pharmacovigilance Diploma, Faculty of Pharmacy, Cairo University.
	Lecturer in Biostatistics course in Clinical Toxicology Diploma, Faculty of Pharmacy, Cairo University.

Teaching experience

- 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.

- Pharmacology-1 (303, PO701): created interactive modules that apply perception of students to theoretical lectures with cardiovascular charts using Strathclyde pharmacology simulation program.
- Pharmacology-2: created flexible structure for drug profile project that enable 3rd year students to cooperate together and search for new drugs and reveal the new trends and updates in the pharmaceutical sciences.
- Biostatistics (306): created statistical modules through reviewing published researches to motivate the students to connect their learned statistical basics with the applied one.

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 - till now.
- Teacher and Lecturer of Pharmacology-1, Biostatistics and Biological Standardization in general program for undergraduates starting from June 2018.
- Teaching/ Research Assistant at department of Pharmacology & Toxicology, Faculty of pharmacy Cairo University - May 2009 till 2018.
- Participant in organizing and monitoring committee of 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- September 2014-till Now.
- Organizer of Drug profile project for third year students, 2009-2015, Faculty of Pharmacy, Cairo University.
- Representative of department of pharmacology and toxicology department for undergraduate courses in Performance Appraisal and Quality Assurance Unit, Faculty of Pharmacy, Cairo University – May 2016 till 2018.
- Participant in constructing behavioral equipment in Clinical Toxicology Lab as well handling and installation of Ugo-Basile Italy instruments (Multi 8-arm maze, Elevated plus maze, Morris water maze, Activity cage, Plethysmometer, Rotarod open-field and Object recognition task).
- Expert in running Any-maze Behavioral tracking software to analyze animal behavior in behavioral labs.

Projects

- Member of the First Board of Faculty of Pharmacy of Egyptian Chinese University –started on 28/9/2020.

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)

Participation at the building up of the Diploma Curriculum.

Participant in National Research Centre (NRC) research grant entitled “Development of new multi-target drugs for the treatment of osteoporosis’ (2019).

Publications

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>

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>

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.MahmoudaMohamed N.A.KhalilaEnas H.AbdelrahmanaHamida M.El-GoharyaAhmed S.Kamel *J Ethnopharmacol* (2020). <https://doi.org/10.1016/J.JEP.2020.113407>

Immunomodulatory effect of diallyl sulfide on experimentally-induced benign prostate hyperplasia via the suppression of CD4+T/IL-17 and TGF-β1/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-β1/ERK pathways. *Inflammopharmacol* (2020). <https://doi.org/10.1007/s10787-020-00743-1>

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).

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.

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.*

Attended Conferences

- The 4th scientific conference of Faculty of Pharmacy Cairo University, 2013.
- The “6th Global Diabetes Summit and Medicare Expo” held on November 02-04, 2015 in Dubai, UAE.
- Scientific Coordinator of Pharmacology and Toxicology Department Conference, 4th march 2020.

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.

Courses, Certificates & Workshops:

- Online workshop about “Critical thinking” by faculty and leadership center at Cairo University” FLDC”, 1/2022
- Online workshop about “Specialized workshop in Quality Practice” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 12/10/2021.
- Online workshop about “Interactive E-learning” by faculty and leadership center at Cairo University” FLDC”, 10/2021
- Online 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 12-14th January 2020.
- Online workshop about “H-index, Impact factor and Citation” by performance appraisal and quality assurance unit at Faculty of Pharmacy, Cairo University, 27/8/2020.

- 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
- Workshop about “Stress management” by faculty and leadership center at Cairo University” FLDC”, 2019
- Workshop about “Fundamentals of clinical trials” by faculty and leadership center at Cairo University” FLDC”, 2018.
- Workshop about “University Management” by faculty and leadership center at Cairo University” FLDC”, 2017.
- Workshop about “Citation managers software; Endnote vs mendely” by Faculty of Pharmacy, Cairo University, 2017.
- Workshop about “Creative Thinking” by faculty and leadership center at Cairo University” FLDC”, 2016.
- Workshop about “Effective Teaching Skills” by faculty and leadership center at Cairo University” FLDC”, 2016.
- Workshop about “Strategic Planning” by faculty and leadership center at Cairo University” FLDC”, 2016.
- Workshop about “University Code of Ethics” by faculty and leadership center at Cairo University” FLDC”, 2016.
- Workshop about “Exams and Students Evaluation System” by faculty and leadership center at Cairo University” FLDC”, 2015
- Workshop about “International Publishing of Scientific Research” by faculty and leadership center at Cairo University” FLDC”, 2015
- Workshop about Understanding Learning Processes by DAAD, 2014
- Workshop about “Legal and Financial Aspects in University Environment” by faculty and leadership center at Cairo University” FLDC”, 2014
- Workshop about How to present scientific data by DAAD, 2014
- Workshop about “Conference Organization” by faculty and leadership center at Cairo University” FLDC”, 2013.
- Workshop about “Use Technology in Teaching” by faculty and leadership center at Cairo University” FLDC”, 2013
- Workshop about “Competing for Research Funds” by faculty and leadership center at Cairo University” FLDC”, 2012
- Workshop about “The Credit Hour Systems” by faculty and leadership center at Cairo University” FLDC”, 2012.
- Workshop about “Essentials of Pharmacovigilance Practice: An Overview”
- ICDL Holder (Windows, Word, Excel, IT, Access, Power point and Net), 2010.

Training internship:

- Two weeks training in quality control department at “6th October Company”, 2006.
- Manager and Pharmacist of Atbaa pharmacy, 2009-till present.
- Statistical Data analysis using SPSS, Institute of statistical studies and research, 7th December 2012-11th 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, 15-17th July 2018.
- ITCT pilot training for E-labs in E-learning competence centre at ministry of communications and information technology (MCIT), 2nd-4th 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 under the patronage of the Erasmus 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.