

Curriculum Vitae

ALIAA FATH MOHAMMED ANTER PhD

PERSONAL DATA

DATE OF BIRTH January, 17th, 1983
NATIONALITY Egyptian
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MAILING ADDRESS Kornish El-Nile, Minia, Egypt
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EDUCATION AND TRAINING

PHD DEGREE IN PHARMACOLOGY AND TOXICOLOGY (2018), FACULTY OF PHARMACY,
University of Minia.

THESIS TITLE: "ROLE OF ENDOGENOUS AND EXOGENOUS HYDROGEN SULFIDE IN CARDIOVASCULAR AND RENAL
COMPLICATIONS IN STREPTOZOTOCIN INDUCED DIABETES IN RATS"

**MASTER'S DEGREE IN PHARMACEUTICAL SCIENCES (M.Sc.) - PHARMACOLOGY &
TOXICOLOGY (2009)**, *Faculty of Pharmacy, Minia University, Egypt.*

THESIS TITLE: "PROTECTIVE EFFECT OF PENTOXIFYLLINE ON D-GALACTOSAMINE INDUCED HEPATOTOXICITY IN RATS"

Overall Grade: Very good

BACHELOR OF PHARMACEUTICAL SCIENCES (B.Sc., 2004)
Faculty of Pharmacy, Minia University, Egypt

Overall Grade: Excellent

EXPERIENCE

WORK EXPERIENCE

2023-now **ASSOCIATE PROFESSOR**
*Department of Pharmacology & Toxicology, Faculty of Pharmacy,
Minia University, Egypt*

2018-2023 **LECTURER**
*Department of Pharmacology & Toxicology, Faculty of Pharmacy,
Minia University, Egypt*

2020 **PART TIME LECTURER**
*Department of Pharmacology & Toxicology, Faculty of Pharmacy,
Deraya University, Egypt*

2004-2008 RESEARCHER
*Department of Pharmacology & Toxicology, Faculty of Pharmacy,
Minia University, Egypt*

2004-2006 COMMUNITY PHARMACIST
Reham Mahmoud Pharmacy, Minia, Egypt.

RESEARCH EXPERIENCE

A. ISOLATED ORGAN (IN-VITRO) PREPARATIONS

Bioassay experiments involving isolated organs as: rat aorta, rabbit intestine, guinea pig ileum, frog rectus abdominis

B. IN-VIVO EXPERIENCE

- Experimental gastric and duodenal ulceration in rats with some surgical skills in rats, especially pyloric ligation.*
- Induction of sepsis using cecal ligation and puncture method.*
- Determination of estrogenic and antiestrogenic activity by uterine weight method.*

C. SCREENING of analgesics, anti-inflammatory, antioxidants, anti-epileptics, cardiotonics, anti-histaminics and CNS depressants.

D. SIMULATED PATIENTS STUDIES TO EVALUATE PHARMACY PRACTICE

E. INSTRUMENTAL TECHNIQUES

Good experience in spectrofluorimetry, spectrophotometry, ELISA,.....etc.

TEACHING EXPERIENCE

- A.** four years experience in teaching pharmacology courses for post-graduate students namely, General Pharmacology, Biochemical Pharmacology, Molecular Pharmacology and Advanced Pharmacology for M.Sc. Pharmacology and Biotechnology programs.
- B.** Three years experience in teaching Pharmacology, Toxicology, Biological assay and Biostatistics to third and fourth year Pharmacy students.
- C.** Two years experience in teaching Pharmacology, Clinical Pharmacology, Clinical Pharmacy, Medical terminology, Pathophysiology and First Aid to Clinical Pharmacy students.

- D. Designed and updated practical courses in Pharmacology and initiated the inclusion of patient counseling course and simulated patient exams to third year pharmacy students.
- E. Sex years experience in teaching experimental pharmacology, clinical pharmacology, experimental toxicology, biological assays, biostatistics and screening for the third and fourth year students as well as graduate students
- F. Designed and updated, in collaboration with other teaching assistants in the department, the experimental toxicology course for the fourth year students, the experimental pharmacology course for the third year students.

GRADUATE STUDENTS' SUPERVISORY MEMBERSHIP

- 1- "Evaluation of the Possible Role of Incretin-based Therapies in Type 2 Diabetes Mellitus-induced Testicular Dysfunction in Rats" Randa Ismaail, MSc, 2019-2022.
- 2- "Evaluation of the possible protective role of sodium-glucose cotransporter 2 inhibitors in gentamicin-induced nephrotoxicity in rats" Sandy Raed, MSc (2019-2022)
- 3- "Gastroprotective effects of dipeptidyl peptidase-4 inhibitors and sodium glucose Co-transporter2 inhibitors against indomethacin-induced gastric ulcer in type 2 diabetic rats. MSc. Samah Omar. 2019-now
- 4- Role of SGLT-2 inhibitors in sepsis- induced brain injury. MSc. Salma Abdelrahman. 2021-now
- 5- The role of endothelin system in sepsis induced multiple organ injuries in rats. PhD. Alaa Elkadi. 2022- now
- 6- Role of Sirtuin1 in Sepsis Induced Multiple Organ Damage. PhD. Alaa Hesham. 2022-now
- 7- Protective Effect of immuno-anti-inflammatory modulators on doxorubicin-induced organ. MSc. Marwa Ali. 2022--now
- 8- Evaluation of the effect of immunomodulation on methotrexate induced organ toxicity. MSc. Ahmed Sadek. 2022- now
- 9- Phosphodiesterase Inhibitors in The Management of Drug-Induced Liver Injury. MSc. Sarah Said. 2022-now
- 10- Evaluation of the Possible Protective Effect of Some Agents in Methotrexate-Induced Organ Toxicity in Rats. PhD. Randa Ismail. 2023-now

COMPUTER EXPERIENCE

-Good experience with computer software: Microsoft Windows®, Microsoft (Word®, Excel®, Powerpoint®, Access®), Endnote®, Reference Manager® Graphpad Prism®, Adobe Reader® etc...
-Adequate computer hardware maintenance experience.

LANGUAGE: GOOD COMMAND OF ENGLISH, FAIR SKILLS IN FRENCH

Publications

Peer-reviewed journal articles:

Badr-Eldin, S.M.; Fahmy, U.A.; Aldawsari, H.M.; Ahmed, O.A.A.; Alhakamy, N.A.; Okbazghi, S.Z.; El-Moselhy, M.A.; Alghaith, **A.F.; Anter**, A.; Matouk, A.I.; et al. Optimized Self-Nanoemulsifying Delivery System Based on Plant-Derived Oil Augments Alpha-Lipoic Acid Protective Effects Against Experimentally Induced Gastric Lesions. ***Dose Response* 2021, 19, 15593258211001259**, doi:10.1177/15593258211001259.

Aliaa Anter, Al-Shaimaa Faissal Ahmed, Alshaimaa W Kasem, Asmaa Hammad, Waleed Almalki, Sara Abdel Hafez, Mohamed Al-rabia, Mamoud El-Daly
The Severity of Acute Kidney and Lung Injuries Induced by Cecal Ligation and Puncture Is Attenuated by Menthol: Role of Proliferating Cell Nuclear Antigen and Apoptotic Marker. ***Frontiers in Medicine***, (2022), volume 9, doi: 10.3389/fmed.2022.904286

Hany Ezzat Khalil, Miada F Abdelwahab, Promise Madu Emeka, Lorina I Badger-Emeka, Sara Mohamed Naguib Abdel Hafez, Khalid A AlYahya, Al-Shaimaa F Ahmed, **Aliaa F Anter**, Nada M Abdel-Wahab, Katsuyoshi Matsunami, Alyaa Hatem Ibrahim Selim. Chemical Composition and Valorization of Broccoli Leaf By-Products (Brassica oleracea L. Variety: Italica) to Ameliorate Reno-Hepatic Toxicity Induced by Gentamicin in Rats. ***Applied Sciences***, 2022, 12(14), 6903, doi: [10.3390/app12146903](https://doi.org/10.3390/app12146903)

Sandy R. Botros , Asmaa I. Matouk , **Aliaa Anter**, Mohamed M.A. Khalifa, Gehan H. Heeba. Protective effect of empagliflozin on gentamicin-induced acute renal injury via regulation of SIRT1/NF-kappaB signaling pathway. ***Environ Toxicol Pharmacol* 2022, 94, 103907**, doi:10.1016/j.etap.2022.103907.

Hany Ezzat Khalil, Miada F Abdelwahab, Promise Madu Emeka, Lorina I Badger-Emeka, Al-Shaimaa F Ahmed, **Aliaa F Anter**, Sara Mohamed Naguib Abdel Hafez, Khalid A AlYahya, Hairul-Islam Mohamed Ibrahim, Krishnaraj Thirugnanasambantham, Katsuyoshi Matsunami, Alyaa Hatem Ibrahim Selim . Brassica oleracea L. var. botrytis Leaf Extract Alleviates Gentamicin-Induced Hepatorenal Injury in Rats—Possible Modulation of IL-1 β and NF- κ B Activity Assisted with Computational Approach. *Life* 2022, 12(9), 1370 ,doi: [10.3390/life12091370](https://doi.org/10.3390/life12091370)

Al-Shaimaa F Ahmed, Sara S Sharkawi, Sara S AbdelHameed, Asmaa M Bayoumi, Rabab S Moussa, Nabil A Alhakamy, Hadeel Al Sadoun, Rasha A Mansouri, Mohamed A El-Moselhy, Mahmoud El-Daly, **Aliaa F Anter**. Ketogenic diet restores hormonal, apoptotic/proliferative balance and enhances the effect of metformin on a letrozole-induced polycystic ovary model in rats. *Life Sciences* (2023), 15;313:121285, doi: [10.1016/j.lfs.2022.121285](https://doi.org/10.1016/j.lfs.2022.121285)

Matouk, A.I.; Awad, E.M.; El-Tahawy, N.F.G.; El-Sheikh, A.A.K.; **Anter, A.** Dihydromyricetin Modulates Nrf2 and NF- κ B Crosstalk to Alleviate Methotrexate-Induced Lung Toxicity. *Pharmaceuticals* 2023, 16, 481. doi: [10.3390/ph16040481](https://doi.org/10.3390/ph16040481)

Anter, A.; Awad, E.M.; Kamed, A.; Matouk, A.I. Dihydromyricetin alleviates gentamicin induced vascular dysfunction through inhibition of ROS/NF- κ B activation. *Journal of advanced Biomedical and Pharmaceutical Sciences* 2023, 6, 107-113, doi:10.21608/jabps.2023.194992.1181.

Sandy R. Botros, **Aliaa Anter**., Asmaa I. Matouk, Mohamed M. A. Khalifa, and Gehan H.; Heeba, G.H. Gentamicin Nephrotoxicity: Mechanisms and Renoprotective. *Egyptian Journal of Basic and Clinical Pharmacology* 2022, 12, 101570, doi:10.11131/2022/101570

Randa Ismail, **Aliaa Anter**., Asmaa I. Matouk and Gehan H. Heeba. AN OVERVIEW OF INCRETIN-BASED THERAPIES: PHARMACOLOGY AND FUTURE PERSPECTIVES. *Bulletin of Pharmaceutical Sciences* 2022, 45, 1027-1042 doi:10.21608/bfsa.2022.271789.

Aliaa Anter., Ashraf Taye, Mohamed El-Moselhy;. " Role of Cystathionine Gamma Lyase in Diabetic Nephropathy." *Journal of advanced Biomedical and Pharmaceutical Sciences*, no. 2 (2018): 140.

Aliaa Anter; Ashraf Taye; El-Moselhy Mohamed;. "NOS activity mediates some pathways in the protective effects of H₂S in a model of diabetic nephropathy." *Journal of advanced Biomedical and Pharmaceutical Sciences* 3, no. 1 (2018): 31-39.

Taye, Ashraf; El-Moselhy, Mohamed A; Hassan, Magdy KA; Ibrahim, Hanaa M; Mohammed, **Aliaa F.**

"Hepatoprotective effect of pentoxifylline against D-galactosamine-induced hepatotoxicity in rats." *Annals of hepatology*, no. 1 (2009): 23-30.

Hassan, Magdy; El-Moselhy, Mohamed; Abu-Elwafa, Ashraf; Ibrahim, Hanaa; **Mohammed, Aliaa**. "Role of Phosphodiesterase Enzyme Modulation in Protection of Hepatotoxicity Induced by D-Galactosamine in Rats." *Bulletin of Egyptian Society for Physiological Sciences* (2009): 117065.

Conferences & Workshops

Dec 2022	EXAM PREPARATION AND EVALUATION WORKSHOP. <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
Nov 2022	STRATEGIC PLANNING WORKSHOP. <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
Nov 2022	DEALING WITH STUDENTS WITH SPECIAL NEEDS WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
Oct 2022	ANTI-CORRUPTION WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
June 2018	THE USE OF TECHNOLOGY IN TEACHING WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
June 2018	RESEARCH ETHICS AND INTERNATIONAL PUBLICATIONS WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
Feb 2015	SCIENTIFIC PUBLISHING WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>
Feb 2014	COMMUNICATION SKILLS IN DIFFERENT EDUCATION STYLES WORKSHOP, <i>Faculty Development & Leadership Center, Minia University, Minia, Egypt</i>

Feb 2014 EFFECTIVE PRESENTATION SKILLS WORKSHOP,
Faculty Development & Leadership Center, Minia University, Minia, Egypt.

Jan 2014 THE ROLE OF QUALITY STANDARDS IN THE TEACHING PROCESS WORKSHOP,
*Faculty Development & Leadership Center, Minia University, Minia,
Egypt*