

# AL-SHAIMAA F. AHMED, PhD

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## Contact information

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## Education

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2024-2025	<b>Biochemistry Diploma</b> Faculty of Pharmacy, Minia University, Egypt
2009-2014	<b>PhD – Neuroscience</b> Cumming School of Medicine-University of Calgary, AB Canada <u>Supervisor</u> : Dr. Keith Sharkey <u>Thesis title</u> : Role of sensory circumventricular organs in the function of hormones affecting feeding and energy balance
2004-2008	<b>MSc - Pharmaceutical sciences (Pharmacology &amp; Toxicology)</b> Faculty of Pharmacy, Minia University, Egypt <u>Supervisor</u> : Prof. Mohamed Montaser A. Khalifa <u>Thesis title</u> : Protective effect of NO releasing aspirin, selective and nonselective COX inhibitors on stress induced gastric ulceration in male albino rats
1999-2003	<b>BSc (Honor)- Pharmaceutical sciences</b> Faculty of Pharmacy, Minia University, Egypt

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## Work & Research Experience

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June 2024-present	<b>Director for Training Unit for the mandatory Pharmacy training year</b> Faculty of Pharmacy, Minia University, Egypt
April 2024-present	<b>Recruitment and external relation office at University Centre for Career development (UCCD)</b> Minia University, Egypt (supervised by the AUC and supported by USAID)
December 2023- October 2024	<b>Assistant Director of the Quality assurance &amp; Accreditation Unit</b> Faculty of Pharmacy, Minia University, Egypt
2018-Present	<b>Assistant Program coordinator for training affairs</b> Clinical Pharmacy program, Faculty of Pharmacy, Minia University

Jan -July 2022	<b>Visiting professor</b> Cumming School of Medicine-University of Calgary, AB Canada <u>Supervisor:</u> Dr. Keith Sharkey
2020-Present	<b>Associate Professor (Pharmacology &amp; Toxicology)</b> Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University, Egypt
2015-2020	<b>Lecturer</b> Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University, Egypt
2018-2019	<b>Part time lecturer</b> Department of Pharmacology & Toxicology, Faculty of Pharmacy, Deraya University, Egypt
2005- 2008 & 2014-now	<b>Department representative member</b> in the executive team of the Ministry of Higher Education program "Faculty Education Quality assurance & Accreditation program"
2003-2008	<b>Research and Teaching Assistant</b> Department of Pharmacology & Toxicology, Faculty of Pharmacy, Minia University, Egypt
2003-2004	<b>Community Pharmacist</b> Adham Pharmacy, Minia, Egypt

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### Teaching Experience

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- Ten 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 **Molecular pharmacology** and **Pharmacogenetics** to Biotechnology programs.
- Ten years-experience in teaching **Pharmacology, Toxicology, Biological assay and Biostatistics** to third- and fourth-year Pharmacy students.
- Ten years-experience in teaching **Pharmacology, Clinical Pharmacology, Clinical Pharmacy, Medical terminology, Pathophysiology and First Aid** to Clinical Pharmacy students.
- Designed and updated practical courses in Pharmacology and initiated the inclusion of patient counselling course and simulated patient exams to third year pharmacy students.

- More than 10 years-experience in teaching **experimental pharmacology, clinical pharmacology, experimental toxicology, biological assays, biostatistics and screening** for the 3rd and 4th-year students as well as graduate students.

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## Research Skills

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### Isolated Organ (*In-vitro*) Preparations

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

### Immunohistochemical analysis

Immunohistochemistry in different brain areas and the GI tract using fluorescence as well as confocal microscopy and image processing and data analysis using Corel draw ® and Image J programs.

### *In-vivo* models

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.

Screening of analgesics, anti-inflammatory, antioxidants, anti-epileptics, cardiotonics, anti-histamines and CNS depressants.

### Simulated patient studies to evaluate pharmacy practice

### Other Techniques

Cell culture, Ca signalling assay, spectrofluorimetry, spectrophotometry, ELISA

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## Graduate Students Supervisory Committee

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2022-2025	<b>MSc. (Biotechnology) Omar El-Rehany</b> Title: Biological Evaluation of Novel Xanthine-chalcone hybrids
2022-present	<b>PhD (Pharmacology) Alaa El-Kady</b> Title: Role of endothelin system sepsis induced cardiorenal injury.
2022-2024	<b>PhD (Pharmacology) Alaa Hesham</b> <u>Title</u> : Role of SIRT1 in sepsis-induced encephalopathy.

2016-2019	<b>MSc (Pharmacology)</b> Asmaa S. Hammad <u>Title:</u> Effect of resveratrol on the cardiovascular complications in STZ-diabetic rats: role of heme-oxygenase.
2017-2020	<b>MSc (Pharmacology)</b> Alaa Hesham <u>Title:</u> A Comparative study of the neuroprotective effect of fenofibrate versus pioglitazone in a cerebral ischemia reperfusion rat model of stroke.
2019-2022	<b>MSc (Pharmacology)</b> Alaa El-Kady Title: Role of renin-angiotensin system in sepsis induced organ injury
2018-2022	<b>MSc (Clinical Pharmacy)</b> Radwa Ali Title: Evaluation of the effectiveness of topical insulin in wound healing of diabetic and non-diabetic patients
2018-2022	<b>MSc (Pharmacology)</b> Sarah Abdel Hameed Title: Role of SSRIs in cerebral ischemia reperfusion injury in rat.

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### **Conferences & Professional Development Workshops**

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Feb 2025	<b>The First National Cancer Biology Day</b> National Cancer Institute, Cairo university, Egypt
Jan 2025	<b>UCCD Employer Relations Officers Winter Training: Business development, networking and negotiation.</b> Cairo, Egypt
Sept 2024	<b>Graduated UCCD networking workshop.</b> Cairo, Egypt
Sept 2024	<b>Minia Pharmacy Scientific Conference</b> Faculty of Pharmacy, Minia University, Egypt
May 2024	<b>Fifth annual UCCD networking event: Career readiness.</b> Cairo, Egypt
April 2024	Facilitating Career Development part 1 workshop. Cairo, Egypt
Nov 2022	<b>4<sup>th</sup> Minia Cardio insurance Conference</b> Ministry of Health and Population, Minia, Egypt

Sept 2022	<b>9<sup>th</sup> Paediatrics &amp; Neonatology Conference</b> Minia University, Minia, Egypt
March 2022	<b>Best Practices for Designing a Quality Rubric</b> Taylor Institute for Teaching and Learning University of Calgary, AB, Canada
March 2022	<b>Teaching with technology</b> Taylor Institute for Teaching and Learning University of Calgary, AB, Canada
March 2022	<b>Gamification of learning-</b> Linked-in e-learning
March 2022	<b>Social Intelligence</b> Linked-in e-learning
Sept 2021	<b>Student assessment and evaluation and preparation of item bank</b> Ministry of High Education, Egypt
Sept 2021	<b>Minia Paediatrics Conference</b> Ministry of Health and Population, Minia, Egypt
Jan 2021	<b>Emotional Intelligence</b> National Training Academy, Cairo, Egypt
Jan 2021	<b>Effective presentation and communication</b> National Training Academy, Cairo, Egypt
Jan 2021	<b>Self-Branding</b> National Training Academy, Cairo, Egypt
Nov 2019	<b>International conference on Pharmaceutical and Health care sciences</b> Faculty of Pharmacy, Alexandria University, Egypt
Sept 2019	<b>Minia Paediatrics Neurology Conference</b> Faculty of Medicine, Minia University, Minia, Egypt
August 2019	<b>Peer review</b> Elsevier publishing campus
August 2019	<b>Strategic Plans</b> Faculty Development & Leadership Centre, Minia University, Minia, Egypt

March 2019	<b>Antibiotics stewardship in focus: a closer look at pro-calcitonin guided antibiotic de-escalation.</b> Medscape CME
March 2019	<b>The 2nd Minia Health insurance cardiology conference</b> Ministry of Health and Population, Minia, Egypt
January 2019	<b>The First African Health summit</b> Egypt Exhibition and Convention Centre, Cairo, Egypt
Sept 2018	<b>The 2nd Clinical Pharmacy Scientific Conference</b> Mina University Hospitals, Minia, Egypt
July 2018	<b>The 2nd scientific Conference of Oncology Centres</b> Ministry of Health and Population, Tanta, Egypt
Feb 2018	<b>The 6th International Conference of The Arab Society for Medical Research</b> Luxor, Egypt
Oct 2016	<b>AUTHOR WORKSHOP</b> Elsevier publishing campus, Minia University, Egypt
Feb. 2016	<b>Egyptian Pharmaceutical Society XXXIII International conference of Pharmaceutical sciences</b> Cairo University, Egypt
Jan 2015	<b>Endnote workshop</b> Faculty Development & Leadership Centre, Minia University, Minia, Egypt
Feb 2015	<b>Exam preparation and Evaluation Workshop</b> Faculty Development & Leadership Centre, Minia University, Minia, Egypt
Dec 2014	<b>Research Ethics Workshop</b> Faculty Development & Leadership Centre, Minia University, Minia, Egypt
April 2014	<b>Hotchkiss Brain Institute (HBI) research day.</b> University of Calgary, AB, Canada
April 2013	<b>Experimental Biology conference</b> Boston, USA
April 2011	<b>Canadian Association of Neuroscience conference, QUEBEC CITY, CANADA</b>

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## Publications

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### Peer-reviewed journal articles:

Heba A. Habib, Mahmoud El-Daly, Yahya I. Asiri, Eman M. Awad, Sara MN. Abdel Hafez, **Al-Shaimaa F. Ahmed**, Aliaa F. Anter. Empagliflozin as a Potential Therapy for PCOS: Restoring Hormonal Balance and Ovarian Function in a Letrozole-Induced Rat Model. (Under review).

Kassab SE., **Al-Shaimaa F. Ahmed** et al. Precise Structure Manipulation of Selective Estrogen Receptor Modulators Led to First-in-Class Thiophene-3-benzamide Derivatives as Potential ER- Antagonists Without Uterotrophic Activity. (under review)

Al-Kadi A, Anter, A, Abdel Hafez SA, R. Roshdy, ElSayed M, **Ahmed, AF**. Klotho Modulation by Tempol: A Potential Therapeutic Axis in Sepsis. BMC Cardiovascular diseases (April 2025, accepted article)

Al-Kadi A, Anter, A, Abdel Hafez SA, R. Roshdy, ElSayed M, **Ahmed, AF**. Endothelin System Blockade Extenuates Sepsis-induced Acute Heart and Kidney injuries Via Modulating ET-1/Klotho/p38-MAPK . Clinical and Experimental Pharmacology and Physiology (April 2025, accepted article).

Al-Kadi A, Anter, A, R. Roshdy, ElSayed M, **Ahmed, AF**. Klotho: A Multifaceted Protector in Sepsis-Induced Organ Damage and a Potential Therapeutic Target. 2025. World J Crit Care Med 14(3): 103458

Elrehany, O. M., **Ahmed, A. S. F.**, Abou-Zied, H. A., Hayallah, A. M., Abdel-Aziz, M., & Nazmy, M. H. 2024. Investigation of anticancer mechanisms of a chalcone/xanthine hybrid in Non-Small Cell Lung Cancer. Bulletin of Pharmaceutical Sciences Assiut University. 47 (2), 1353-1366

Shehata, Alaa H., Aliaa F. Anter, Sara Mohamed Naguib Abdel Hafez, Ahmed RN Ibrahim, Eman S. Kamel, and **Al-Shaimaa F. Ahmed**. 2024 Pioglitazone ameliorates sepsis-associated encephalopathy through SIRT1 signaling pathway. International Immunopharmacology 139: 112757.

Sarah Sameh Abdel-Hameed, Mahmoud El-Daly, **Al-Shaimaa F. Ahmed**, Amany A Bekhit, Gehan H Heeba. 2024. Dapoxetine prevents neuronal damage and improves functional outcomes in a model of ischemic stroke through the modulation of inflammation and oxidative stress. Naunyn-Schmiedeberg's Archives of Pharmacology. 397 (1), 253-266

Al-Kadi, A., M. El-Daly, N. F. G. El-Tahawy, O. Fahmi, A. B. Abdel-Naim, M. M. A. Khalifa, and **A. F. Ahmed**. 2024 Therapeutic potential of ramipril, losartan, and spironolactone against sepsis-associated liver tissue injury induced by cecal ligation and puncture in rats. European Review for Medical & Pharmacological

Sciences 28 (5).

VM Pulgar, C Guibert, **ASF Ahmed**, AJ Trask 2023. Editorial on the Research Topic Model Organisms and Experimental Models: Opportunities and Challenges in Vascular Physiology Research. *Frontiers in Physiology* 14, 1271220

Shehata, A. H., Anter, A. F., & **Ahmed, A.-S. F.** 2023. Role of SIRT1 in sepsis-induced encephalopathy: Molecular targets for future therapies. *European Journal of Neuroscience*, 125.

C. E. Matisz, N. Semenoff, **A.-S. F. Ahmed**, L. Griffin, L. E. Wallace, P. McNabb, et al. 2022. Acute gut inflammation reduces neural activity and spine maturity in hippocampus but not basolateral amygdala *Scientific Reports* 2022 Vol. 12 Issue 1

**A.-S. F. Ahmed**, S. S. Sharkawi, S. S. AbdelHameed, A. M. Bayoumi, R. S. Moussa, N. A. Alhakamy, et al. 2023. Ketogenic diet restores hormonal, apoptotic/proliferative balance and enhances the effect of metformin on a letrozole-induced polycystic ovary model in rats. *Life Sciences*

E. M. Awad, **A.-S. F. Ahmed**, M. El-Daly, A. H. Amin, N. F. El-Tahawy, A. Wagdy, M. Hollenberg and A. Taye. 2022 Dihydromyricetin protects against high glucose-induced endothelial dysfunction: Role of HIF-1 $\alpha$ /ROR2/NF- $\kappa$ B. *Biomedicine & Pharmacotherapy* Vol. 153.

O. Bender, I. Celik, R. Dogan, A. Atalay, M. E. Shoman, T. F. Ali, **Ahmed A-SF**, et al. 2023. Vanillin-Based Indolin-2-one Derivative Bearing a Pyridyl Moiety as a Promising Anti-Breast Cancer Agent via Anti-Estrogenic Activity. *ACS omega* Vol. 8 Issue 7

A. Anter, **A.-S. F. Ahmed**, A. W. Kasem, A. Hammad, W. Almalki, S. Abdel Hafez, et al. 2022. The severity of acute kidney and lung injuries induced by cecal ligation and puncture is attenuated by menthol: role of PCNA and apoptotic markers. *Frontiers in Medicine*

S. R. Senousy, M. El-Daly, A. R. Ibrahim, M. M. A. Khalifa and **A.-S. F. Ahmed**: Effect of Celecoxib and Infliximab against Multiple Organ Damage Induced by Sepsis in Rats: A Comparative Study. *Biomedicines* 2022 Vol. 10 Issue 7

Raafat M, Kamel AA, Shehata AH, **Ahmed A-SF**, Bayoumi A, Moussa RA, Abourehab MA, El-Daly M. 2022. Aescin Protects against Experimental Benign Prostatic Hyperplasia and Preserves Prostate Histomorphology in Rats via Suppression of Inflammatory Cytokines and COX-2. *Pharmaceuticals*. 15(2):130

Ragab MA, Elagawany M, Daabees H, **Ahmed A-SF**, Awad EM, Billon C, Elgendy B, Abouzid KA, Kassab SE. 2022. Structure-based design and synthesis of conformationally constrained derivatives of methyl-piperidinopyrazole (MPP) with estrogen receptor (ER) antagonist activity. *Bioorganic Chemistry*. 119:105554.

Awad E, **Ahmed A-SF**, El-Daly M, El-Tahawy N, Kasem A, Taye A. 2022. Role of apoptosis and oxidative



stress in high glucose-induced endothelial dysfunction in isolated aortic rings. Journal of advanced Biomedical and Pharmaceutical Sciences. 5(1):23-28.

Tawfik AG, Abdelaziz AI, Omran M, Rabie KA, **Ahmed A-SF**, Abou-Ali A. 2021. Assessment of community pharmacy management towards self-medication requests of tetracyclines for pregnant women: a simulated client study in Upper Egypt. International journal of clinical pharmacy. 43(4):969-979.

Singh D, Gupta S, Verma I, Morsy MA, Nair AB, **Ahmed A-SF**. 2021. Hidden pharmacological activities of valproic acid: A new insight. Biomedicine & Pharmacotherapy. 142:112021.

Senousy SR, **Ahmed A-SF**, El-Daly M, Khalifa MA. 2021. Cytokines in sepsis: friend or enemy? Journal of advanced Biomedical and Pharmaceutical Sciences.29-39.

Alzahrani, A., M.E.-S.M. El-Daly, and **Ahmed A-SF**, A critical review on therapeutic potential of vitamin D mediated suppression of miRNA222 associated metabolic defect in polycystic ovarian syndrome. Critical Reviews™ in Eukaryotic Gene Expression.

Al-Kadi, El-Daly M, Khalifa MA **Ahmed A-SF**, Angiotensin aldosterone inhibitors improve survival and ameliorate kidney injury induced by sepsis through suppression of inflammation and apoptosis. Fundamental & Clinical Pharmacology, 2021.

Shehata, A.H., **Ahmed A-SF**, Bekheit Amany, Heeba G., The impact of single and combined PPAR- $\alpha$  and PPAR- $\gamma$  activation on the neurological outcomes following cerebral ischemia reperfusion. Life sciences, 2020. 252: p. 117679

Ibrahim, Y.F., Bayoumi A, Mousa R. **Ahmed A-SF**, Tocilizumab attenuates acute lung and kidney injuries and improves survival in a rat model of sepsis via down-regulation of NF- $\kappa$ B/JNK: a possible role of P-glycoprotein. Inflammopharmacology, 2020. 28(1): p. 215-230.

**Ahmed A-SF**, A.M.A.B., Heba M. Eltahir , Sara M.N. Abdel Hafez, Mekky M. Abouzied, Amelioration of Sepsis-Induced Liver and Lung Injury by a Superoxide Dismutase Mimetic; Role of TNF-alpha and Caspase-3. Journal of Advanced Biomedical and Pharmaceutical Sciences, 2020. 3(1).

Al-Kadi, A., **Ahmed A-SF**, Khalifa MM, El-Daly M, Silymarin protects against sepsis-induced acute liver and kidney injury via anti-inflammatory and antioxidant mechanisms in the rat. Journal of Advanced Biomedical and Pharmaceutical Sciences, 2020. 3: p. 190-197.

Hammad, A.S., **Ahmed A-SF**, Heeba G, Taye A., Heme oxygenase-1 contributes to the protective effect of resveratrol against endothelial dysfunction in STZ-induced diabetes in rats. Life sciences, 2019. 239: p. 117065

Asmaa, S.A.H., **Ahmed A-SF**, Heeba G, Taye A, Resveratrol protects against early cardiomyopathic changes-induced by Type-1 diabetes through a heme-oxygenase-1 dependent mechanism. Journal of Advanced Biomedical and Pharmaceutical Sciences, 2019. 2(1): p. 12-18.

Abdelaziz, A.I., Omran M, Rabie KA, Abou-Ali, **Ahmed A-SF**, Quality of Community Pharmacy Practice in Antibiotic Self-Medication Encounters: A Simulated Patient Study in Upper Egypt. Antibiotics, 2019. 8(2): p. 35.

Abd-Ellah, H.S., M.A.-A., Mai E. Shoman, Eman A.M. Beshr, Tamer S. Kaoud, **Ahmed A-SF**, New 1, 3, 4-

oxadiazole/oxime hybrids: Design, synthesis, anti-inflammatory, COX inhibitory activities and ulcerogenic liability. Bioorganic chemistry, 2017. 74: p. 15-29.

Heba S. Abd-Ellah, M.A.-A., Mai E. Shoman, Eman A.M. Beshr, Tamer S. Kaoud, **Ahmed A-SF**, Novel 1,3,4-oxadiazole/oxime hybrids: Synthesis, docking studies and investigation of anti-inflammatory, ulcerogenic liability and analgesic activities. Bioorganic chemistry, 2016. 69: p. 48-63.

**Ahmed A-SF**, Ho W, Ferguson A, Sharkey KA, The subfornical organ: a novel site of action of cholecystokinin. American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 2014. 306(5): p. R363-R373.

**Ahmed A-SF**, Role of Sensory Circumventricular Organs in the Function of Hormones Affecting Feeding and Energy Balance. 2014, University of Calgary.

Khalifa, M., Moselhy M., Kasem M, **Ahmed A-SF**, Evaluation of the effects of rofecoxib and nitric oxide-releasing aspirin on stress-Induced gastric ulcers in rats. Saudi Pharmaceutical J, 2008. 16(3-4): p. 203-213.

### **Conference Abstracts**

**Al-Shaimaa F. Ahmed**: Bringing pharmacy practice to pharmacology courses: Application of simulated learning and OSCE-like exams. 3rd International conference on pharmaceutical and biological sciences and applied chemistry. December 12,13-2023. (Oral presentation)

Abdullah I. AbdelAziz1, Abdelrahman G. Tawfik, Adel Abou-Ali, and **Al-Shaimaa F. Ahmed**: Counselling pregnant patients in the Community Pharmacy: time to meet the alarming facts. International conference on Pharmaceutical and Health care, Alexandria University (6-7 November 2019).

**Al-Shaimaa F. Ahmed**, Rabab A. Moussa , Asmaa M.A. Bayoumi , Yasmine F. Ibrahim (2019): Tocilizumab, an IL-6 receptor inhibitor, improves survival and attenuates acute kidney injury induced by sepsis. The First African Health Summit. Tanta University, Cairo (Jan 29-Feb 1)

Sarah S. Abdel Hameed, Mario M. Nady, Nisreen D. Toni and **Al-Shaimaa F. Ahmed** (2018): Pantoprazole increases the mortality of rats in a cecal ligation and puncture model of sepsis. The 6th International Conference of The Arab Society for Medical Research, Luxor (20-24 February).

**Al-Shaimaa F. Ahmed**, Winnie Ho and Keith A. Sharkey (2018): Meal induced c-Fos in the subfornical organ is partially mediated by cholecystokinin. The 6th International Conference of The Arab Society for Medical Research, Luxor (20-24 February). (Oral presentation)

Abdullah Abdelaziz, Abdel-Rahman Tawfik, Kaled Abdel-Rahman, Mohamed Omran, **Al-Shaimaa Ahmed**: (2016): Antibiotic dispensing patterns in community pharmacies in Minia, Egypt: a simulated patient study, ASHP MIDYEAR Meeting Abstracts Archive (clinical pharmacy meeting & exhibition, Las Vegas, USA)

Alaa H. F. Shehata, Abdallah I. A. Abdelaziz, Abdel-Rahman G. Tawfik, Mahmoud El-Daly and **Al-Shaimaa F. Ahmed** (2016): Effect of Isotretinoin on Indomethacin-Induced Gastric Ulceration. 33rd Scientific Conference of the Egyptian Pharmaceutical Society ( 27-28 Feb.)

Asmaa S. A. Hammad<sup>1</sup>, Mahmoud El-Daly, Mahmoud A. Saleh, Ahmed I. Abdelaziz, Ahmed O. M. Lamloum, Mona A. A. Ali, Abdel-Rahman Talaat and **Al-Shaimaa F. Ahmed** (2016): Role of Proteinase Activated Receptor 2 in Indomethacin Induced Gastric Ulcer: 33rd Scientific Conference of the Egyptian Pharmaceutical Society (27-28 Feb.).

**Al-Shaimaa F. Ahmed**, Alastair V. Ferguson and Keith A. Sharkey (2013): Subfornical organ: a novel site for the actions of cholecystokinin. The FASEB Journal. 2013;27:1123.5 (Experimental Biology conference, 2013, Boston, USA)

Al-Shaimaa F. Ahmed and Keith A. Sharkey (2011): Cholecystokinin induces c-Fos expression in the subfornical organ. 5th Annual Canadian Association of Neuroscience (CAN) meeting abstract book. 2011;260-261

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### Grants & Research Projects

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- **Team Member**, STDF-Egypt Grant: *Application of Laboratory and Animal Experiments Stage and Production of Natural Biodegradable Plastic for Bone Grafting*  
**Funding Agency:** Science & Technology Development Fund (STDF), Egypt  
**Project Duration:** July 1, 2019 – May 12, 2022  
**Role & Contributions:** Conducted laboratory and preclinical animal studies to develop biodegradable plastic materials for bone grafting applications. Assisted in experimental design, data analysis, and final reports preparation.
- **Team Member**, STDF-Egypt Grant: *Design and Synthesis of Novel Selective Estrogen Receptor Modulators*  
**Funding Agency:** Science & Technology Development Fund (STDF), Egypt  
**Project Duration:** January 23, 2019 – January 22, 2021

**Role & Contributions:** Participated in the interdisciplinary development of novel SERMs with potential therapeutic applications in hormone-related diseases. Contributed to the biological evaluation of synthesized compounds, coordination of lab experiments, and technical reporting.

- **Co-Investigator (CO-I)**, Deanship of Scientific Research, Umm Al-Qura University

**Project Title:** *Role of TRPM8 Channels in Sepsis*

**Funding Agency:** Deanship of Scientific Research, Umm Al-Qura University

**Project Code:** 19-MED-1-01-0046 (2020-2021)

**Role & Contributions:** Investigated the involvement of TRPM8 channels in sepsis pathophysiology. Contributed to study design, experimental execution, data interpretation and publication.

- **Consultant**, Deanship of Scientific Research, Umm Al-Qura University

**Project Title:** *Protective Effects of Sodium-Glucose Co-Transporter Inhibitors Against the Cardiovascular Complications of Experimental Polycystic Ovary Syndrome*

**Funding Agency:** Deanship of Scientific Research, Umm Al-Qura University

**Project Code:** 19-MED-1-01-0043(2020-2021)

**Role & Contributions:** Provided expert guidance on study design, experimental protocols, and data analysis related to polycystic ovary syndrome models.

### **Awards & Honours**

August 2023	INTERNATIONAL PUBLICATION AWARD. MINIA UNIVERSITY
August 2022	INTERNATIONAL PUBLICATION AWARD. MINIA UNIVERSITY
August 2021	INTERNATIONAL PUBLICATION AWARD. MINIA UNIVERSITY
August 2020	INTERNATIONAL PUBLICATION AWARD. MINIA UNIVERSITY
May 2011	CANADIAN ASSOCIATION OF NEUROSCIENCE TRAVEL AWARD.
2009-2010	ACHIEVERS IN MEDICAL SCIENCE RECRUITMENT SCHOLARSHIP awarded from University of Calgary, Canada
April 2009	CEREMONY FOR DISTINGUISHED ACADEMIC ACHIEVEMENT UNDER THE PATRONAGE OF THE FACULTY OF PHARMACY DEAN (Master's degree)
April 2004	CEREMONY FOR DISTINGUISHED ACADEMIC ACHIEVEMENT UNDER THE PATRONAGE OF THE FACULTY OF PHARMACY DEAN
May 2003	The 1st student throughout my undergraduate studies.
May 2001	NOMINATED AS THE "BEST UNDERGRADUATE STUDENT OF THE YEAR" IN FACULTY OF PHARMACY AND GOT THE SECOND POSITION AMONGST THE UNIVERSITY.
1998-2003	SCHOLARSHIP FROM THE FACULTY OF PHARMACY, MINIA UNIVERSITY, FOR OUTSTANDING ACADEMIC PERFORMANCE FOR FOUR CONSECUTIVE YEARS

### **Scientific journals reviewer**

Scientific Reports

Clinical Science

Review editor in Frontiers of Physiology

Drug design development and therapy

Expert review of clinical pharmacology

Journal of cellular physiology	and Pharmacology
Journal of Clinical Medicine	Saudi Pharmaceutical Journal
Future medicinal chemistry	Medical science monitor
Life sciences journal	
Molecules (MDPI)	
Frontiers in Pharmacology	
Journal of Advanced Biomedical and Pharmaceutical Sciences	
International Journal of Immunopathology	

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### Extracellular activities

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Local Science and Engineering fair (ISEF-2025) Judge. Minia, Egypt

Conference Secretary General, Minia Pharmacy Scientific Conference 2024

Supervisor of the Egyptian Pharmacy Student's Federation-Minia (EPSF-Minia)

Volunteered as a judge in Calgary Youth Science Fair. May 2010, 201, 2014 and 2022.

Board of trustee member of Nile international Egyptian school, Minia branch (April 2018-now)

Judge for several Egyptian Pharmacy Student's Federation (EPSF) patient counseling and clinical skills competition.

Team leader in the breast cancer foundation "run for the cure" with our team being in the top 3 women team in fundraising. (October 2013, Calgary, Canada)

Volunteering in the Calgary brain day (parachute organization) in which we teach grade 4-6 student about the function of the brain and how important it is to protect using a helmet.

President of the Egyptian Students' association in Calgary (ESA-Calgary) (2010-2012).

Volunteering in summer training program for pharmacy students, Minia university, Egypt (2004-2008).