

Curriculum Vitae (CV) for Faculty Staff

Personal statement:

am an Assistant Professor of Clinical Pharmacology with extensive academic and research experience in Egypt and Jordan. Holding an M.B.B.Ch., M.Sc., and Ph.D. in Clinical Pharmacology from Mansoura University, my expertise bridges experimental, molecular, and clinical pharmacology with a focus on metabolic disorders, diabetes, hepatoprotection, and drug-induced toxicity. I have a strong record in teaching pharmacology and therapeutics across medicine, dentistry, and pharmacy programs, currently serving at Ibn Sina University for Medical Sciences.



My teaching philosophy emphasizes interactive, competency-based learning and the integration of digital technologies and AI tools to enhance medical education. My research involves experimental and translational pharmacology, exploring antifibrotic, anti-inflammatory, and antioxidant mechanisms. I have authored several publications in international journals and actively contribute to curriculum development, academic quality assurance, and e-learning innovation. My mission is to advance pharmacology education through scientific research, digital transformation, and mentorship, fostering future healthcare professionals with strong scientific and ethical foundations.

1. Personal Information	
Name:	Sameh Ahmad Muhammad Abdel-Ghany Aly.
Date and place of birth	1974-2-16 - Shebeen Elkom, Munofya, Egypt.
Faculty:	Faculty of Medicine, Ibn Sina University for medical sciences, Amman, Jordan.
Department:	Basic medical science
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2. Education			
Date	Issuing institute	Field	Degree
1998	Mansoura University	Medicine and general surgery	M.B. B. Ch, .
2008	Mansoura University	Basic medical sciences (clinical pharmacology)	M.Sc
2017	Mansoura University	Basic medical sciences (clinical pharmacology)	Ph.D

3. Specialization and area of interest	
General	Clinical Pharmacology, with a strong emphasis on experimental and translational research focusing on hepatotoxicity, metabolic disorders, and mechanistic evaluation of novel pharmacological and nutraceutical agents. Research interests extend to the molecular basis of drug action, organ protection, and the integration of digital technologies in pharmacological education and research.
Focus area	<ul style="list-style-type: none"> Experimental pharmacology of hepatotoxicity, liver fibrosis, and organ protection Metabolic disorders and diabetes mellitus: mechanisms of insulin resistance and β-cell preservation Molecular pathways in drug action, oxidative stress, and inflammatory signaling (NF-κB, AMPK, and FOXO3a axes) Antifibrotic and anti-inflammatory therapeutics in liver and lung injury models Experimental drug toxicity studies and protective pharmacotherapy strategies Application of artificial intelligence, e-learning, and digital innovation in pharmacology education and research

4. Professional experience	
Position	Date
Lecturer (Assistant Professor) of Clinical Pharmacology Faculty of Medicine, Ibn Sina University for Medical Sciences – Amman, Jordan	2023 – Present
Lecturer (Assistant Professor) of Clinical Pharmacology Faculty of Medicine, Mansoura University – Egypt	2018 – Present

Lecturer of Pharmacology Mansoura National University – Egypt	2022 – 2023
Lecturer of Pharmacology Neo Mansoura University – Egypt	2021 – 2022
Lecturer of Pharmacology and Therapeutics Delta University for Science and Technology – Egypt	2018 – 2023
Vice Director, E-Learning Unit Faculty of Medicine, Mansoura University – Egypt	2011 – 2013
Assistant Lecturer of Clinical Pharmacology Faculty of Medicine, Mansoura University – Egypt	2008 – 2017
Demonstrator of Clinical Pharmacology Faculty of Medicine, Mansoura University – Egypt	2000 – 2008
Rotating House Officer Mansoura University Hospitals – Egypt	1999 – 2000

5. Research Experience	
I have extensive experience in experimental and clinical pharmacology, particularly in the areas of metabolic disorders, diabetes mellitus, liver injury, and organ-protective pharmacology. My research focuses on elucidating molecular and cellular mechanisms of drug action in metabolic syndrome, NAFLD/NASH, and fibrotic diseases. I have also developed and evaluated pharmacological and nutraceutical interventions that modulate oxidative stress, inflammation, and apoptotic pathways in hepatic and pulmonary fibrosis models.	
Additional experience includes the design and conduct of clinical research—with emphasis on patient selection, randomization methods, ethical approval and compliance, and statistical analysis of pharmacological and therapeutic data using advanced biostatistical tools such as SPSS and GraphPad Prism.	
I possess rich experience in the methodology of scientific research, starting from hypothesis formulation, literature review, experimental design, data collection and analysis, to result interpretation, scientific writing, and publication in international peer-reviewed journals.	
Master's Thesis (2008): Vascular and hepatic effects of Thiazolidinediones (pioglitazone-rosiglitazone) in Rats with insulin resistance	
Ph.D. Thesis (2017): Potential effect of captopril , valsartan and nimodipine on nuclear factor kappa B (NF-κB) and lipid peroxidation in hepatic ischemiareperfusion injury in rats	
Publications: Authored and co-authored peer-reviewed articles addressing hepatotoxicity, liver fibrosis, diabetes, metabolic syndrome, pulmonary fibrosis, and pharmacological organ protection. My work highlights the molecular pathways of NF-κB, AMPK, FOXO3a, and TGF-β modulation and evaluates novel antifibrotic and anti-inflammatory compounds published in high-impact journals such as The FASEB Journal and Pharmaceuticals.	

Collaborative & Interdisciplinary Research: Contributed to multidisciplinary projects exploring computational and AI-based approaches in biomedical and pharmacological research, digital education, and experimental modeling.

Research Interests:

- Experimental and clinical pharmacology of metabolic and liver diseases
- Pharmacotherapeutic interventions for hepatic and pulmonary fibrosis
- Molecular pharmacology and gene expression modulation
- Nutraceutical and antioxidant pharmacology
- Drug toxicity studies and protective pharmacotherapy
- Translational pharmacology integrating experimental and clinical therapeutics
- Application of artificial intelligence in pharmacology research and education

6. Publications

Name of Author(s)	Title
ORCID: https://orcid.org/0000-0003-1864-0279	
Ghazi F Sharkas, Ragaa El-Masry, Sameh Abdel-Ghany , Ayman El Baz, Tamer Abou-Elsaad, Amira Adly Kassab, Darwish H Badran, Abdalla Y Bashir	Satisfaction of academic medical staff with integrated medical curriculum: an exploratory multinational survey. BMC Medical Education. 2024 Dec 18;24(1):1483. https://link.springer.com/article/10.1186/s12909-024-06468-x December 2024
Alexandru Madalin Hasan, Simona Cavalu, Sameh Saber, Ahmed S Doghish, Rabab S Hamad, Mustafa Ahmed Abdel-Reheim, Mushabab Alghamdi, Mohannad Mohammad S Alamri, Jaber Alfaifi, Masoud IE Adam, Abdullah Ali Alqarni, Assad Ali Rezigalla, Sally Negm, Attalla F El-Kott, Ali S Alshehri, Shahad Fuad BinAfeef, Sameh Abdel-Ghany , Mohammed A Attia, Osama A Mohammed	Hedgehog signaling mastery: R51211's promise in augmenting the therapeutic efficacy of sorafenib. Life Sciences. 2024 Aug 15;351:122791. https://www.sciencedirect.com/science/article/pii/S0024320524003813 August 2024
Osama A Mohammed, Mahmoud E Youssef, Ahmed S Doghish, Rabab S Hamad, Mustafa Ahmed Abdel-Reheim, Mushabab Alghamdi, Mohannad Mohammad S Alamri, Jaber Alfaifi, Masoud IE Adam, Muffarah Hamid Alharthi, Abdullah Hassan Alhalafi, Emad Bahashwan, Assad Ali Rezigalla, Daad Fuad BinAfif, Sameh Abdel-Ghany , Mohammed A Attia, Elsayed A Elmorsy, Tohada M Al-Noshokaty, Heba Fikry, Lobna A Saleh, Sameh Saber	A novel combination therapy targets sonic hedgehog signaling by the dual inhibition of HMG-CoA reductase and HSP90 in rats with non-alcoholic steatohepatitis. European Journal of Pharmaceutical Sciences. 2024 Jul 1;198:106792. https://www.sciencedirect.com/science/article/pii/S0928098724001040 July 2024

<p>Osama A Mohammed, Sameh Saber, Mustafa Ahmed Abdel-Reheim, Mohannad Mohammad S Alamri, Jaber Alfaifi, Masoud IE Adam, Muffaroh Hamid Alharthi, Ali MS Eleragi, Hanan B Eltahir, Mohamed Osama Abdalla, Emad Bahashwan, Elwathiq Khalid Ibrahim, Assad Ali Rezigalla, Sameh Abdel-Ghany, Amany A Alzokaky, Ahmed S Doghish, Hussein M El-Husseiny, Mushabab Alghamdi, Mahmoud E Youssef</p>	<p>Tracking the therapeutic efficacy of a ketone mono ester and β-hydroxybutyrate for ulcerative colitis in rats: New perspectives. <i>Toxicology and Applied Pharmacology</i>. 2024 May 1;486:116943. https://www.sciencedirect.com/science/article/abs/pii/S0041008X24001418</p>
<p>Abdelhady, R.; Mohammed, O.A.; Doghish, A.S.; Hamad, R.S.; Mustafa A. Abdel-Reheim; Alamri, M.S.; Muffaroh H. Alharthi; Jaber Alfaifi; Adam; A.H. Alhalafi; M.N.A. Adamu Imam Isa; Sameh Abdel-Ghany; Attia, M.A.; Elmorsy, E.A.; Al-Noshokaty, T.M.; Nomier, Y.; El-Dakroury, W.A.; Saber, S.</p>	<p>Linagliptin, a DPP-4 inhibitor, activates AMPK/FOXO3a and suppresses NF-κB to mitigate the debilitating effects of diethylnitrosamine exposure in rat liver: Novel mechanistic insights. <i>The FASEB Journal</i> (2024). DOI: https://doi.org/10.1096/fj.202302461rr Feb 2024</p>
<p>Mohammed, O.A.; Abdel-Reheim, M.A.; Saleh, L.A.; Alamri, M.M.S.; Alfaifi, J.; Adam, M.I.; Farrag, A.A.; AlQahtani, A.A.J.; BinAfif, W.F.; Hashish, A.A.; Sameh Abdel-Ghany.</p>	<p>Alvespimycin exhibits potential anti-TGF-β signaling in the setting of a proteasome activator in rats with bleomycin-induced pulmonary fibrosis: A promising novel approach. <i>Pharmaceuticals</i> (2023), 16(8):1123. DOI: https://doi.org/10.3390/ph16081123 August 2023</p>
<p>Mohammed, O.A.; Abdel-Reheim, M.A.; Alamri, M.M.S.; Alfaifi, J.; Adam, M.I.; Saleh, L.A.; Farrag, A.A.; Yahia, A.I.O.; Sameh Abdel-Ghany et al.</p>	<p>STA9090 as a potential therapeutic agent for liver fibrosis by modulating the HSP90/TβRII/proteasome interplay: Novel insights from in vitro and in vivo investigations. <i>Pharmaceuticals</i> (2023), 16(8):1080. DOI: https://doi.org/10.3390/ph16081080 July 2023</p>
<p>Saber, S.; Alamri, M.M.S.; Alfaifi, J.; Saleh, L.A.; Sameh Abdel-Ghany et al.</p>	<p>(R,R)-BD-AcAc₂ Mitigates Chronic Colitis in Rats: A Promising Multi-Pronged Approach Modulating Inflammasome Activity, Autophagy, and Pyroptosis. <i>Pharmaceuticals</i> (2023), 16(7):953. DOI: https://doi.org/10.3390/ph16070953 June 2023</p>
<p>Ghany, S.A.; Malek, H.A.; Sahar El-Dakroury; Amira Kamal El-Hawary; Sanad S. El-Kholy.</p>	<p>Potential effect of ferulic acid on NF-κB in a rat model of doxorubicin toxicity. <i>Medical Science</i> (2020), 24(106): 4321–4331.</p>

	<p>Potential effect of ferulic acid on NF-κB in a rat model of doxorubicin toxicity December 2020</p>
Abdel-Ghany, S.A.; Elashry, H.A.; Ameen, M.M.; Abdel-Rahman, K.M.; Yassin, A.R.A.	Hepatic Ischemia-Reperfusion Injury: Pathogenesis and Pharmacological Treatment. Advances in Medicine and Medical Research (2018), 1(1): 2–18.
Sameh Ahmad M. Abdel-Ghany; Hala A. Elashry; Maha M. Ameen; Karawan M. Abd-El Rhman; Abdel-Rahman A.F. Yassin.	Potential effect of captopril and valsartan on nuclear factor kappa B and lipid peroxidation in hepatic ischemia-reperfusion injury in rats. Mansoura Medical Journal (2015), 44(1–2). https://mmj.mans.edu.eg/home/vol44/iss1/9/

7. Conferences and Presentations		
Name- organizer	Place and date	Type of participation
The 9th International Conference of Jordan Public Health Association – “Advancing Public Health for a Resilient Future.”	Amman, Jordan – July 3–4, 2025	Attendance
International Conference on Simulation in Medical Education – Faculty of Medicine, Yarmouk University	Irbid, Jordan – April 23–24, 2025	Attendance
Scientific Conference on Diabetes (7th Scientific Day & 2nd Regional Conference) – Jordanian Society for Care of Diabetes / Jordan Medical Council	Amman, Jordan – November 28–29, 2024	Attendance
KHCC Conference “Powering the Future of Cancer Care: Intersection of AI, Surgery and Robotics.”	Amman, Jordan – November 15–16, 2024	Attendance
5th Scientific Day of the Jordan Public Health Association	Dead Sea, Jordan – October 24, 2024	Attendance
Amman Retina Meeting	Amman, Jordan – May 29–31, 2024	Attendance
Workshop: “Unlocking Gen-AI in Higher Education Practical” – University of Strathclyde & British Council	Amman, Jordan – May 28, 2024	Attendance
Workshop: “Capacity-Building on Developing	Amman, Jordan – November 20, 2024	Attendance

Learning Objectives” – British Council		
Workshop: “Training in Medical Education” – UTHSA-GWU Faculty Development Program for Ibn Sina University	Amman, Jordan – June 3–4, 2024	Attendance
Webinar: “Professionalism in Medicine” – George Washington University (ISUMS/GW Series)	Online – October 31, 2024	Attendance
Webinar: “How to Prepare for USMLE Step I” – George Washington University	Online – December 10, 2024	Attendance
Workshop: “Managing Your Time” – SMHS Center for Faculty Excellence, George Washington University	Online – April 21, 2025	Attendance
Workshop: “Engagement Techniques to Maximize Learning” – SMHS Center for Faculty Excellence, George Washington University	Online – May 27, 2025	Attendance
First Annual International Conference of Clinical Pharmacology Department (AICCP 2020) – Mansoura University, Faculty of Medicine	Mansoura, Egypt – 2020	Attendance
Annual Scientific Conference – Faculty of Medicine, Mansoura University	Mansoura, Egypt – 2018	Speaker
First E-Learning Conference – Faculty of Medicine, Mansoura University	Mansoura, Egypt – January 2012	Speaker

8. Training courses	
Course name-organizer	Date
SUMS Faculty Professional Development Series – “Managing Your Time”, SMHS Center for Faculty Excellence, George Washington University / Ibn Sina University for Medical Sciences	April 2025
SMHS Center for Faculty Excellence – “Engagement Techniques to Maximize	May 2025

Learning”, George Washington University / Ibn Sina University for Medical Sciences	
ISUMS/GW Webinar Series – “Professionalism in Medicine”, George Washington University / Ibn Sina University for Medical Sciences	October 2024
“How to Prepare for USMLE Step I” Webinar, George Washington University / Ibn Sina University for Medical Sciences	December 2024
Workshop – “Training in Medical Education”, UTHSA–GWU Faculty Development Program for Ibn Sina University	June 2024
Workshop – “Unlocking Gen-AI in Higher Education Practical”, University of Strathclyde & British Council	May 2024
Workshop – “Capacity-Building on Developing Learning Objectives”, British Council	November 2024
Course in E-Research Tools, Faculty of Medicine, Tanta University, Egypt	March 2019
Workshop – Computer-Aided Drug Design, Faculty of Medicine, Tanta University, Egypt	March 2017
Training Course – Integration in Medical Education, Faculty of Medicine, Mansoura University	January 2011
Teaching Skills Workshop, Quality Assurance Unit, Faculty of Medicine, Mansoura University	August 2010
Course – Medical Statistics and Use of SPSS, Faculty of Medicine, Mansoura University	October 2010
ICTP Course – Web Design (FrontPage, Dreamweaver, Photoshop, Flash), Mansoura University	Dec 2009 – Apr 2010
Smart Board Training Course, E-Learning Unit, Mansoura University	2009
ICTP Course – Advanced PowerPoint, Mansoura University	December 2009
Training of Teachers (TOT) Workshop, Quality Assurance & Accreditation Unit, Mansoura University	May 2008
ISO Coordinator Training, Quality Assurance Unit, Faculty of Medicine, Mansoura University	2009
FLDP Workshops – Effective Communication, Active Learning,	2005–2010

Presentation, Time Management, Quality Parameters, Research Ethics	
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9. Teaching Experience for last 5 years		
Course Name	Year	Institute
General Pharmacology (2 nd year -first semester)	2023–2025	Faculty of Medicine, Ibn Sina University for Medical Sciences, Amman, Jordan
Cardiovascular Pharmacology (CVS Module), Blood Pharmacology(Blood & lymphatics module), Respiratory pharmacology(Respiratory module) (2 nd year -Second semester)	2023–2025	Faculty of Medicine, Ibn Sina University for Medical Sciences, Amman, Jordan
Pharmacology for Dentistry (Dental Therapeutics)	2025-2026	Faculty of Dentistry, Ibn Sina University for Medical Sciences, Amman, Jordan
Central Nervous System Pharmacology(CNS module)(Second semester- 3 rd year)	2024–2025	Faculty of Medicine, Ibn Sina University for Medical Sciences, Amman, Jordan
Basic & Clinical Pharmacology	2022-2023	Faculty of Medicine, National Mansoura University, Egypt
Basic & Clinical Pharmacology	2018–2023	Faculty of Medicine, Mansoura University, Egypt
Basic & Clinical Pharmacology (Manchester Program)	2018–2023	Faculty of Medicine, Mansoura University, Egypt
Clinical Pharmacology	2022–2023	Faculty of Nursing, Mansoura University, Egypt
Basic & Clinical Pharmacology	2022–2023	Faculty of Medicine, New Mansoura University, Egypt
Pharmacology for Dentistry, Medicine, and Pharmacy Students	2019–2023	Faculty of Medicine, Delta University for Science and Technology, Egypt

10. committees' membership and community service	
Date	Name or type of membership/service
2024-2025	Director of Examination Office 2024-2025
2024-2025	Member, Course Equivalency Committee, Faculty of Medicine, Ibn Sina University for Medical Sciences
2024	Member of the Committee for Support and Coordination of Scientific Research and Promotion of Academic Publication, Faculty of Medicine, Ibn Sina University for Medical Sciences, Amman, Jordan
2022	Member of the Pharmacology Curriculum Integration Committee, Faculty of Medicine, Mansoura University, Egypt
2019–2020	Member of the Examination and Assessment Committee, Faculty of Medicine, Mansoura University, Egypt
2008-2014	Member in Good deeds charity
2011-2013	Member of the Digital Learning and E-Learning Development Committee, Faculty of Medicine, Mansoura University, Egypt
2009-2011	ISO Coordinator of the clinical pharmacology department at the quality assurance and accreditation unit of the faculty of medicine, Mansoura university
2008-2009	Managing Director of Good Deeds charity
2000- till now	Member of Egyptian syndicate of medicine

11. Awards And Honors		
Name	Date	Issuing authority

12. Other skills
Research and Data Analysis: Skilled in statistical analysis (SPSS, GraphPad, Excel), scientific writing, data visualization, and literature review for evidence-based practice.
Digital and AI Competence: Proficient in AI tools for education (ChatGPT, DALL·E, InVideo AI, Sora, Veo 3), learning-management systems (Moodle, Blackboard), and digital content creation (interactive slides, e-learning modules, and 3D visual storytelling).
Communication and Presentation Skills: Excellent verbal and written communication; experienced speaker in workshops, conferences, and academic meetings.
Language Proficiency: Arabic (native), English (very good).
Computer Skills: Advanced user of Microsoft Office, data analysis software, image editing tools, and internet research.

13. References

Prof. Dr. Mohamed–Hesham yoursri Daba (professor of clinical pharmacology, Damietta university, Egypt)

Prof. Dr. Karawan Mohammed Abd-el Rahman (professor of clinical pharmacology, Mansoura university, Egypt)

Prof. Dr. Hala abdelmalek (professor of clinical pharmacology, Mansoura university, Egypt)

Prof. Dr. Abd-el Motaal fouda (professor of clinical pharmacology, Mansoura university, Egypt)