

PROFESSIONAL ACADEMIC CURRICULUM VITAE

Prof. Ibrahim Abdel Aziz Ibrahim

Full Professor of Basic Medical Sciences (Pharmacology with Clinical Biochemistry) | Teaching across Medicine, Dentistry, Pharmacy & Applied Medical Sciences



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2,600+

CITATIONS

28

H-INDEX

57

i10-INDEX

89

PUBLICATIONS

23

GRANTS

EXECUTIVE ACADEMIC PROFILE

Prof. Dr. Ibrahim Abdel Aziz Ibrahim is a Full Professor of Basic Medical Sciences (Pharmacology with Clinical Biochemistry) with an interdisciplinary academic and professional foundation encompassing Medical Laboratory Sciences, Clinical Biochemistry, and Pharmacology. He has extensive academic, research, teaching, and clinical-laboratory experience across Jordan, Malaysia, and the Kingdom of Saudi Arabia. He holds a BSc in Medical Technology (Medical Laboratory Sciences), an MSc in Pharmaceutical Sciences with a subspecialty in Clinical Biochemistry from the Department of Clinical Laboratory Diagnostics, Faculty of Pharmacy, University of Baghdad, and a PhD in Pharmacology from the Department of Pharmacology, Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM; National University of Malaysia). His academic progression represents a coherent integration of laboratory medicine, clinical biochemistry, and pharmacology, reinforced by practical experience in clinical laboratories and experimental biomedical research. Prof. Ibrahim began his professional career as a Medical Laboratory Scientist in hospital laboratories in Amman, Jordan, where he gained hands-on experience in clinical chemistry, haematology, and endocrinology. This early clinical-laboratory training provided him with a strong foundation in biochemical and haematological investigations, hormonal assessment, laboratory procedures, quality practices, and the clinical interpretation of laboratory findings.

His postgraduate education further developed the interface between Clinical Biochemistry and Pharmacology. His master's thesis, entitled "Effect of Oral Hypotensive and Oral Hypoglycaemic Agents on Biochemical Laboratory Findings," investigated the effects of therapeutic agents on biochemical laboratory parameters, establishing an early research focus on drug-laboratory test interactions and the influence of pharmacological treatment on the interpretation of clinical laboratory results. He subsequently pursued his doctoral studies in the Department of Pharmacology, Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM). His PhD research integrated pharmacology, clinical biochemistry, oxidative stress, endocrinology, and experimental therapeutics. His doctoral thesis, entitled "Effects of Palm Vitamin E and α -Tocopherol on Hormones and Gastric Parameters in Rats Exposed to Water-Immersion Restraint Stress," investigated the effects of vitamin E compounds on hormonal and gastric responses in an experimental model of stress. This work further strengthened his expertise in experimental pharmacology, biochemical and hormonal assessment, oxidative stress, antioxidants, and stress-related gastric pathophysiology. Together, his master's and doctoral research represent a coherent interdisciplinary trajectory: from investigating how therapeutic agents influence clinical biochemical laboratory findings to examining how pharmacological interventions modulate biochemical, hormonal, and physiological responses in experimental models of disease and stress. This integration of laboratory medicine, clinical biochemistry, and pharmacology has remained a defining feature of his academic and research career.

His expertise encompasses clinical biochemistry, pharmacology, toxicology, laboratory medicine, laboratory quality and safety systems, experimental biomedical research, and laboratory development. At Umm Al-Qura University, he contributed to the development of research infrastructure through leadership roles, including serving as Chairman of the

Research Laboratories Development Committee and establishing an Animal Breeding Unit to support experimental biomedical research. Prof. Ibrahim has substantial teaching experience across undergraduate and postgraduate programmes in medicine and health sciences. His teaching portfolio includes Pharmacology, Toxicology, Clinical Biochemistry, and Research Methods. He has also contributed extensively to undergraduate and postgraduate research through student supervision, research-project evaluation, thesis examination, and scientific mentoring, including teaching Clinical Biochemistry and Research Methods within the MSc programme in Clinical Toxicology.

Prof. Ibrahim has extensive experience in medical education, curriculum development, and academic programme delivery, alongside undergraduate and postgraduate teaching in Pharmacology, Toxicology, Clinical Biochemistry, and Research Methods. During his tenure at the College of Medicine, Umm Al-Qura University, he contributed to the implementation and development of the integrated medical curriculum within the academic collaboration between Umm Al-Qura University and University College London (UCL) Medical School. His contributions included integrating basic and clinical sciences, coordinating courses and educational modules, and aligning learning outcomes with curriculum content, teaching strategies, and assessment. His medical-education experience encompasses student-centred learning, Problem-Based Learning (PBL), Small-Group Sessions (SGS), Case-Based Learning (CBL), interactive teaching, early clinical exposure, curriculum mapping and evaluation, assessment, and academic quality assurance. This experience has strengthened his ability to contribute to integrated, competency-oriented medical curricula that connect foundational biomedical sciences with clinical application and promote analytical thinking and clinical reasoning.

His research record reflects the interdisciplinary nature of his academic background, encompassing drug–laboratory test interactions, oxidative stress and antioxidants, natural products, experimental pharmacology, stress-related disorders, nanomedicine, and experimental therapeutics. His scholarly output includes one book chapter and 91 peer-reviewed publications, with more than 2,600 citations, an h-index of 28, and an i10-index of 57, reflecting sustained research productivity and international academic impact.

His combined experience in clinical-laboratory practice, clinical biochemistry, pharmacology, biomedical research, laboratory development, and health-sciences education gives him a distinctive interdisciplinary profile. He is well suited to teach Pharmacology and Clinical Biochemistry within Basic Medical Sciences departments across the Colleges of Medicine, Dentistry, Pharmacy, and Applied Medical Sciences, where these subjects form a shared scientific foundation for all health-professions students.

PERSONAL DETAILS

Full Name	Prof. Ibrahim Abdel Aziz Ibrahim Mustafa
Date of Birth	25 January 1974
Nationality	Jordanian
Marital Status	Married, five children
Languages	Arabic (native) · English (proficient) · Bahasa Malaysia (elementary)

TEACHING PHILOSOPHY

My teaching philosophy rests on the conviction that medical education should be student-centred, integrated, competency-based, clinically relevant, and intellectually stimulating. I see education not as the mere transfer of knowledge, but as a continuous process that builds critical thinking, clinical reasoning, professional competence, curiosity, and the confidence to learn independently for life.

Student-Centred and Active Learning

Students learn best when actively engaged. I therefore foster a supportive, technology-enhanced environment that promotes participation, inquiry, collaboration, and peer learning. Rather than relying on didactic teaching, I use interactive lectures, Problem-Based Learning (PBL), Team-Based Learning (TBL), Case-Based Learning (CBL), small-group sessions, and clinical case discussions. My role is to facilitate learning, spark curiosity, and guide students toward independent discovery—offering the

opportunities, feedback, and support they need to take ownership of their learning and achieve the intended outcomes and competencies.

Integrated and Competency-Based Education

My philosophy was greatly enriched by my work on the integrated MBBS curriculum at Umm Al-Qura University, redeveloped through a five-year collaboration with University College London (UCL) Medical School. This deepened my grounding in horizontal and vertical integration, Competency-Based Medical Education (CBME), Outcome-Based Education (OBE), curriculum mapping, early clinical exposure, constructive alignment, and continuous curriculum evaluation. I firmly believe biomedical sciences should not be taught in isolation; understanding grows deeper and more durable when pharmacology, biochemistry, physiology, and pathology form an interconnected framework linked to disease mechanisms, therapeutics, and rational medicine use.

Alignment of Learning, Teaching, and Assessment

Effective education demands clear alignment between learning outcomes, teaching activities, assessment, and graduate competencies. My work on curriculum committees, module coordination, and assessment has reinforced my commitment to constructive alignment. I have coordinated integrated modules in Pharmacology, Neuroscience, and Behavioural Sciences and contributed to OSCEs, written examinations, and PBL/TBL/CBL assessments. I regard assessment as an integral part of learning that should promote analytical thinking, reasoning, and integration of knowledge rather than rote memorisation.

Early Clinical Exposure and Translational Learning

I strongly support early clinical exposure, which helps students appreciate the clinical relevance of basic sciences from the outset, strengthening motivation, retention, and the shift from theory to clinical reasoning. My interdisciplinary background in Medical Laboratory Science, Clinical Biochemistry, and Pharmacology shapes this approach. My MSc research, "Effect of Oral Hypotensive and Oral Hypoglycaemic Agents on Biochemical Laboratory Findings," and my laboratory experience in clinical chemistry, haematology, and endocrinology deepened my understanding of the links between medicines, laboratory findings, and patient care. My doctoral training in Pharmacology at Universiti Kebangsaan Malaysia (UKM) further broadened this translational view, and I encourage students to see pharmacology as an interdisciplinary science connecting molecular mechanisms, physiology, biochemistry, pathology, laboratory findings, and clinical decision-making.

Inclusive Learning and Support

Students arrive with diverse learning styles, backgrounds, abilities, and confidence levels, so educators must create an inclusive environment where each can develop. Small-group teaching is especially valuable, enabling less confident students to engage more actively. Peer interaction, guided discussion, formative feedback, and collaborative problem-solving enhance understanding while building communication and teamwork skills.

Postgraduate Education, Research, and Mentorship

My philosophy extends to postgraduate training and research mentorship. At Umm Al-Qura University, I helped establish and deliver the Master's Programme in Clinical Toxicology, teaching Clinical Biochemistry and Research Methods and supervising and examining postgraduate research. I view research as essential to higher education and encourage trainees to question existing knowledge, appraise evidence critically, formulate meaningful research questions, and translate findings into better healthcare.

Continuous Improvement

Just as students must remain lifelong learners, so must educators. I value faculty development, educational innovation, curriculum review, quality assurance, student feedback, and evidence-informed improvement of teaching and assessment. My experience across institutions in Malaysia and Saudi Arabia has shown me that excellent medical education depends on collaboration among faculty, curriculum leaders, clinicians, scientists, students, and institutional leadership.

Ultimately, my goal is to develop graduates who are not only knowledgeable but who think critically, integrate science with practice, communicate and collaborate effectively, practise ethically, engage with evidence, and continue learning throughout their careers.

AREAS OF EXPERTISE

▪ Medical Laboratory Sciences	▪ Clinical Biochemistry	▪ Drug–Laboratory Interactions
▪ Clinical Chemistry	▪ Haematology	▪ Endocrinology
▪ Laboratory Quality & Safety Systems	▪ Research Laboratory Development	▪ Accreditation & Quality Assurance
▪ Pharmacology	▪ Toxicology	▪ Experimental Therapeutics
▪ Antioxidants & Oxidative Stress	▪ Natural Products	▪ Nanomedicine & Biomedical Applications
▪ Translational Biomedical Research	▪ Research Methodology	▪ Graduate Studies Supervision

LABORATORY & ACADEMIC LEADERSHIP

- **Research-Laboratory Development:** Served as Chairman of the Research Laboratories Development Committee at Umm Al-Qura University and founded the Animal Breeding Unit, leading the planning, establishment, and equipping of research-laboratory infrastructure to support experimental biomedical research.
- **Laboratory Quality & Safety:** Member of the Laboratory Quality & Safety Committee and the Laboratories, Devices, Procurement & Safety Systems Committee, contributing to laboratory quality systems, biosafety, equipment procurement, and the maintenance of safe and standards-compliant laboratory environments.
- **Clinical-Laboratory Practice:** More than two years of hands-on clinical-laboratory practice as a Medical Laboratory Scientist across haematology, endocrinology, and clinical chemistry, with a thorough understanding of laboratory workflows, analytical methods, and result interpretation.
- **Drug–Laboratory Interactions:** A sustained research programme investigating how therapeutic agents (e.g. captopril, methyldopa, glibenclamide) interfere with serum biochemical measurements — directly informing the accurate interpretation and quality of clinical laboratory findings.
- **Postgraduate Laboratory Education:** Helped establish and deliver the MSc in Clinical Toxicology, teaching Clinical Biochemistry and Research Methods and supervising and examining laboratory-based postgraduate research projects.
- **Accreditation & Quality Assurance:** Contributed to programme evaluation, quality assurance, and continuous-improvement processes aimed at maintaining academic and laboratory standards and supporting institutional accreditation.
- **Research Supervision & Mentorship:** Extensive supervision and examination of undergraduate and postgraduate research, mentoring students in laboratory methods, experimental design, data analysis, and scientific writing.

EXECUTIVE LEADERSHIP HIGHLIGHTS

- More than 20 years of international academic and laboratory experience.
- Full Professor with a specialisation in Medical Laboratory Sciences and Clinical Biochemistry.
- Interdisciplinary foundation spanning laboratory medicine, clinical biochemistry, and pharmacology.
- Hands-on clinical-laboratory practice in haematology, endocrinology, and clinical chemistry.
- Chairman of the Research Laboratories Development Committee; founder of the Animal Breeding Unit.
- Leadership in laboratory quality, safety, and biosafety systems.
- Sustained research on drug–laboratory interactions and their effect on biochemical findings.
- Establishment and equipping of research-laboratory infrastructure.
- Postgraduate teaching of Clinical Biochemistry and Research Methods.
- Extensive supervision and examination of laboratory-based research.

- Accreditation and quality assurance.
- Faculty development and mentoring.
- Graduate programme development.
- Research leadership.
- International collaborations.

CORE AREAS OF EXPERTISE

Laboratory Sciences

Medical Laboratory Sciences · Clinical Biochemistry · Clinical Chemistry · Haematology · Endocrinology · Drug–Laboratory Interactions · Laboratory Result Interpretation · Analytical Methods

Laboratory Quality & Development

Laboratory Quality Systems · Biosafety & Laboratory Safety · Research-Laboratory Development · Equipment & Procurement · Accreditation · Quality Assurance · Programme Evaluation · Continuous Improvement

Research

Toxicology · Pharmacology · Experimental Therapeutics · Translational Biomedical Research · Nanomedicine · Oxidative Stress · Natural Products · Research Methodology

Teaching & Supervision

Clinical Biochemistry Teaching · Research Methods Teaching · Postgraduate Supervision · Undergraduate Research Supervision · Thesis Examination · Faculty Mentorship

RESEARCH IMPACT

- **Google Scholar Citations:** more than 2,600
- **h-index:** 28
- **i10-index:** 57
- Numerous publications in Q1 international journals.
- Book chapter published by CRC Press.
- Principal Investigator and Co-Investigator on multiple funded research projects.
- Extensive supervision of undergraduate and postgraduate research.

EDUCATION

The MSc in Clinical Biochemistry and the PhD in Pharmacology form a connected postgraduate specialisation: the first examined how drugs alter biochemical laboratory findings, and the second investigated the pharmacological mechanisms underlying those effects.

2010	PhD in Pharmacology Department of Pharmacology, Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM), Kuala Lumpur, Malaysia
2001	MSc in Pharmaceutical Sciences — Clinical Biochemistry subspecialty Department of Clinical Laboratory Diagnostics, Faculty of Pharmacy, University of Baghdad, Iraq
1998	BSc in Medical Technology Faculty of Pharmacy & Medical Sciences, Amman University, Jordan

POSTGRADUATE THESES

MSc in Pharmaceutical Sciences (Clinical Biochemistry). *“Effect of Oral Hypotensive and Oral Hypoglycaemic Agents on Biochemical Laboratory Findings.”*

Supervisors: Prof. Dr. Walid R. Sulaiman and Assoc. Prof. Dr. Nehad M. Hammodi — Department of Clinical Laboratory Sciences, College of Pharmacy, University of Baghdad.

PhD in Pharmacology. *“Effects of Palm Vitamin E and α -Tocopherol on Hormones and Gastric Parameters in Rats Exposed to Water-Immersion Restraint Stress.”*

Supervisors: Dr. Kamisah Yusof and Dr. Nur Azlina Mohd Fahami — Department of Pharmacology, Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM), Kuala Lumpur, Malaysia.

PROFESSIONAL EXPERIENCE

Full Professor, Basic Medical Sciences (Pharmacology & Clinical Biochemistry) Faculty of Medicine, Umm Al-Qura University, Makkah, Saudi Arabia	<i>Dec 2023 – Present</i>
Associate Professor, Basic Medical Sciences (Pharmacology & Clinical Biochemistry) Faculty of Medicine, Umm Al-Qura University, Makkah, Saudi Arabia	<i>Sep 2019 – Dec 2023</i>
Assistant Professor, Basic Medical Sciences (Pharmacology & Clinical Biochemistry) Faculty of Medicine, Umm Al-Qura University, Makkah, Saudi Arabia	<i>Sep 2012 – Sep 2019</i>
Assistant Professor, Basic Medical Sciences (Pharmacology) Faculty of Medicine, Universiti Teknologi MARA (UiTM), Shah Alam, Malaysia	<i>Jun 2011 – May 2012</i>
Lecturer, Basic Medical Sciences (Pharmacology) College of Medicine, University of Cyberjaya, Malaysia	<i>Oct 2008 – Jun 2011</i>
Medical Laboratory Scientist Islamic Hospital Laboratories, Amman, Jordan	<i>Mar 2002 – Jun 2004</i>

ACADEMIC LEADERSHIP & ADMINISTRATIVE ROLES

Umm Al-Qura University — Selected Leadership Positions

- Head, Media Committee, College of Medicine (2025/2026).
- Coordinator, Neuroscience & Behaviour Module, 3rd-year MBBS (2023/24, 2024/25, 2025/26).
- Coordinator, MSc Clinical Toxicology Programme (2019/2020).
- Chairman, Research Laboratories Development Committee, and founder of the Animal Breeding Unit.
- General Supervisor, Dean’s Office, College of Medicine (2015).
- Direct Assistant to the Vice Dean for Graduate Studies & Scientific Research.
- Supervisor and member, Continuing Education Committee for Graduate Studies & Scientific Research.

Umm Al-Qura University — Committee Memberships

- Standing Committee for Scientific Research; Scientific Research Committee (Graduate Studies).
- Medical & Bioethics Committee for Graduate Studies & Scientific Research.
- Laboratory Quality & Safety Committee; Laboratories, Devices, Procurement & Safety Systems Committee.
- Clinical Training Programme Committee for medical students; Continuing Education Committee.
- Library Development Committee; Media & Advertising Committee; Scientific Publishing Booklet Committee.
- Volunteer & Community Service Unit (since 1444 AH), including the structured Hajj volunteer programme (2022).
- Organising Committee, 1st & 2nd Saudi Conferences of Clinical Toxicology.

Earlier Roles — CUCMS & UiTM, Malaysia

- Pharmacology Lecturer; Coordinator of the Pharmacology Course; Co-coordinator of the Endocrine Course (CUCMS).
- PBL Committee member; Coordinator of the Affective Domain (CUCMS).
- Vetting Committee of the Pharmacology discipline; Year-1 Assistant Coordinator; CAL Coordinator (UiTM).
- Discipline Coordinator for research equipment; Technical Committee, 3rd Medical Olympiad (UiTM).

TEACHING

Teaching spans postgraduate and undergraduate health-sciences and medical programmes, with particular emphasis on clinical biochemistry, research methods, and pharmacology, combined with laboratory-based practical and research supervision.

- MSc Clinical Toxicology — teaching Clinical Biochemistry and Research Methods; supervising and examining laboratory-based theses.
- Introductory Medical Research and Academic Skills courses, including experimental design, data handling, and scientific writing.
- Practical (laboratory) teaching within integrated modules, including Genetic Development & Cancer and Nervous System & Kidney/Blood Diseases.
- Pharmacology teaching across undergraduate medical years (autonomic, GIT, urinary, respiratory, and antimicrobial pharmacology).
- Facilitator of Problem-Based Learning (PBL) and Small-Group Sessions (SGS).
- Supervision of numerous undergraduate graduation research projects, many laboratory-based.

RESEARCH INTERESTS

Palm vitamin E & tocotrienols · stress-induced gastric injury · stress and hormones · gastric gene expression · drug–laboratory interactions · medicinal plants and herbs (*Nigella sativa*, *Olea europaea*, *Juniperus procera*) · antioxidants and natural products · interstitial cystitis · antidiabetic and antiepileptic agents · resveratrol · nanoparticles and nanomedicine · medical education.

RESEARCH GRANTS

A total of 23 funded research projects — 13 as Principal Investigator and 10 as Co-Investigator — supported by KACST, the Institutional Fund Projects of the Deanship of Scientific Research (DSR), Umm Al-Qura University, and ICSR.

Project Title	Role	Project No.	Funder
As Principal Investigator (PI)			
Functionalised biocompatible graphene-based nanocomposite as a novel drug-delivery system for intracellular active-receptor targeted liver cancer therapy: cellular and molecular mechanisms in an experimental cancer model	PI	IFP22UQU4331277DSR123	UQU – DSR
Investigation of cellular and molecular mechanisms of functionalised nanoparticles with Myrtenol and D-Carvone as a unique drug-delivery system for colon cancer: involvement of the PI3K/Akt pathway	PI	IFP22UQU4331277DSR124	UQU – DSR
Evaluation of the Therapeutic Potential of Some Saudi Medicinal Plants on Gastric Tumorigenesis and Ulcers in Experimental Animal Models	PI	13-MED709-10	KACST
Antitumour Efficacy of a Nanoformulation of <i>Caralluma quadrangula</i> & <i>Blepharis ciliaris</i> in Colon Cancer: In-Vitro and In-Vivo Evaluation	PI	14-MED402-10	KACST
Canagliflozin Alleviates Valproic-Acid-Induced Rat Autism: The Role of PTEN/PDK/PPAR- γ Signalling Pathways	PI	22UQU4331277DSR14	UQU – DSR

Project Title	Role	Project No.	Funder
Coumarin-Based Sulfonamide Derivatives as Potential DPP-IV Inhibitors: Pre-ADME Analysis, Toxicity-Profile Computational Analysis and In-Vitro Enzyme Assay	PI	22UQU4331277DSR08	UQU – DSR
Chemopreventive Effects of <i>Onosma mutabilis</i> Against Azoxymethane-Induced Colon Cancer in Rats via Amendment of Bax/Bcl-2 and NF-κB Signalling Pathways	PI	22UQU4331277DSR09	UQU – DSR
Design, Synthesis and Evaluation of Diaminopimelic-Acid Derivatives as Potential dapF Inhibitors Preventing Lysine Biosynthesis for Antibacterial Activity	PI	22UQU4331277DSR07	UQU – DSR
Adaptive Responses of Four Medicinal Plants to High-Altitude Oxidative Stress Through the Regulation of Antioxidants and Secondary Metabolites	PI	22UQU4331277DSR05	UQU – DSR
Effect of Papaverine Against Gastric Ulcer Induced by Ethanol in Rats	PI	22UQU4331277DSR04	UQU – DSR
Secondary Effect of Silver Nanoparticles Against Gastric Ulcer Induced by Ethanol in Rats	PI	22UQU4331277DSR03	UQU – DSR
Evaluation of the Toxic Effect of the Drug Alpha-Mercapto on Liver Injury (TAA) in Rats	PI	22UQU4331277DSR02	UQU – DSR
Protective Effects of P-Cymene Against Gastric Ulcer Induced by Ethanol in Rats	PI	22UQU4331277DSR01	UQU – DSR
As Co-Investigator (Co-I)			
Natural-product-containing nanoformulation and its pharmacological activity in a suitable animal model	Co-I	IFP22UQU4331335DSR130	UQU – DSR
Characterisation and evaluation of the therapeutic potential of selected phytochemicals against Dengue virus (DENV) in a competent cultured-cell system	Co-I	IFP22UQU4330924DSR015	UQU – DSR
Role of JAG1 and the NOTCH pathway in lung fibrosis and the possible protective effect of trimetazidine	Co-I	IFP22UQU4360890DSR241	UQU – DSR
Evaluation of anti-hyperlipidaemic, anti-diabetic and antioxidant properties of <i>Carthamus tinctorius</i> L. (safflower) extract: in-vitro and in-vivo studies	Co-I	IFP22UQU4360890DSR222	UQU – DSR
Hepatoprotective effect of a polymeric and gold nanoformulation of <i>Picrorhiza kurroa</i> extract in hepatocellular carcinoma	Co-I	22UQU4360890DSR01	UQU – DSR
Phytopharmacological Investigation of <i>Solanum incanum</i> Berry Extract as a Natural Depilatory Agent	Co-I	13-MED700-10	KACST
Assessment of Human Exposure to Heterocyclic Amines from High-Temperature-Cooked Meat and Colorectal Cancer Incidence in the Saudi Population	Co-I	13-MED801-10	KACST
New Neuropharmacological Strategy for Epilepsy: Dexamethasone with Sodium Valproate in Rats	Co-I	14-MED350-10	KACST
SGLT2 Inhibition for Kidney Protection in Diabetic Rats Exposed to Renal Ischaemia/Reperfusion	Co-I	15-MED4112-10	KACST
Biological Effect of <i>Juniperus procera</i> & <i>Olea europaea</i> Leaf Extract in Stress-Induced Interstitial Cystitis in Rats	Co-I	ICSR	Accepted
Effects of Immunomodulator Drugs on the Li-Pilocarpine Experimental Epilepsy Model in Adult Male Rats	Co-I	ICSR	Accepted

RESEARCH SUPERVISION & EXAMINATION

Postgraduate — MSc Clinical Toxicology (Supervisor)

- Ibrahim S. A. Aljerary — “Pesticides and Respiratory Symptoms Among Farmers in Madinah Al-Munawwarah, KSA” (2020–2021).
- Hasan A. H. Baz — “Incidence of Regorafenib Major Adverse Effects at a Tertiary Care Hospital: a Retrospective Study.”
- Faisal AlGhamedi — “Respiratory System Among Petrol-Station Workers.”

- Osama A. Al-Zahrani — “Safety and Toxicity of Novel Oral Targeted Therapies in Chronic Lymphocytic Leukaemia: a Retrospective Study.”
- Abdulaziz AlThubaity — “Prevalence of Statin-Induced Myopathy and Associated Factors.”
- Raef H. Saibah — “Effect of Scorpion Venom on Humans in Yanbu.”

Postgraduate — Co-Supervisor & Examiner

- Co-supervisor: Ayed A. Alkatheeri — “Awareness and Utilisation of Drug & Poison Centre Services and the Role of the Clinical Toxicologist, Jeddah” (2020–2021).
- Examiner: Ahmed S. H. Altowairqi — “Incidence and Risk Factors of Neutropenia Among Patients Receiving Clozapine, Taif.”
- Examiner: Khalid M. Al-Zaidi — “Colistin Loading Dose and Acute Kidney Injury in Hospitalised Adults, Taif.”

Undergraduate (MBBS) Research — Supervisor

- “Prevalence and Associated Risk Factors of Musculoskeletal Pain Among Arabic Calligraphers in Saudi Arabia” (2016–2017).
- “The Effect of Some Immunomodulatory and Anti-Inflammatory Drugs on Li-Pilocarpine-Induced Epileptic Disorders in Wistar Rats” (2015–2016).
- “*Olea europaea* and *Juniperus procera* Leaf Extracts Modulate Stress Hormones in Stress-Induced Cystitis in Rats” (2017–2018).
- Co-supervisor, UiTM: “Protective Effect of Pure Tocotrienol Concentrate on Experimental Haemorrhagic Gastritis Induced by Acute Stress” (2011).
- Co-supervisor, Al-Baha University: “Effectiveness of a Simulation-Based Programme for Laboratory Skills Among Medical Students” (2017).

SELECTED PUBLICATIONS

Author of one book chapter and 89 peer-reviewed articles (2,600+ citations; h-index 28; i10-index 57). The listing below is arranged in reverse-chronological order; the author’s name is highlighted in bold throughout.

Book Chapter

1. Ismail NM & **Ibrahim Abdel Aziz Ibrahim**. Tocotrienol and Tocopherol in Stress-Induced Gastric Mucosal Injury. In: Tocotrienols — Vitamin E Beyond Tocopherols, 2nd ed. (Tan, Watson & Preedy, eds.), CRC Press, 2012, ch. 25, pp. 333–358. ISBN 978-1-4398-8441-6.

Peer-Reviewed Journal Articles

◆ 2026

1. Begum MY, Chauhan A, Akhter MH, Al Hamod M, Alotaibi H, Almutairy BK, Alsunbul M, Ali MS, Ahmad S, **Ibrahim IAA**, Shahid I, Shahzad N. pH- and temperature-responsive hydrogel composite dual-loaded with neomycin and bromelain for enhanced diabetic wound repair. *J Clust Sci*. 2026;37:56.

◆ 2025

2. Azahar SN, Yong CK, Fahami NAM, **Ibrahim IA**. Pathogenesis of alcoholic fatty liver disease: molecular and cellular changes. *Malays J Pathol*. 2025;47(3):377–400.
3. Alanazi IM, Abo Nahas HH, Mohamed DI, et al., **Ibrahim IAA**, et al. Integrative metabolomic, network-pharmacology and experimental evidence for *Lepidium sativum* seed extract as a modulator of pulmonary fibrosis. *Pharmaceuticals (Basel)*. 2025;18(12):1820.
4. Kapitonova M, Alyautdin R, Morokhina SL, et al., **Ibrahim IAA**. Active compounds in *Berberis vulgaris* leaf extract for prevention of peptic gastric ulcer. *Avicenna Bull*. 2025;27(4):921–927.
5. Abdelwahab SI, Taha MME, Farasani A, et al., **Ibrahim IAA**, et al. First comprehensive bibliometric analysis of male aesthetic surgery. *Aesthetic Plast Surg*. 2025 (Epub ahead of print).
6. Elhassan Taha MM, Abdelwahab SI, Bharathi M, et al., **Ibrahim IAA**, Farasani A. Harnessing *Saussurea lappa* for anti-leishmanial, anti-toxoplasmic and antibacterial activity. *Indian J Pharm Educ Res*. 2025;59(4):1429–1443.

7. Almasmoum HA, Almailani G, Almailani RA, et al., Aziz **Ibrahim IA**, Saied EM. Synthesis and multi-target antiproliferative evaluation of novel 1,2,4-triazole-3-thione analogues against breast cancer. *RSC Adv.* 2025;15(30):24769–24790.
8. El Behery M, Abo-Elmatty DM, Alsunbul M, et al., **Ibrahim IAA**, et al. Anticancer efficacy of a novel 1,3-thiazole analogue in an Ehrlich ascites carcinoma model. *RSC Adv.* 2025;15(25):20143–20167.
9. Taha MME, Abdelwahab SI, Mohamed HY, et al., **Ibrahim IAA**, et al. Comprehensive review of Wolbachia research (1936–2024). *Parasite Epidemiol Control.* 2025;30:e00438.
10. Abdelwahab SI, Taha MME, Farasani A, et al., **Ibrahim IAA**, et al. Global trends in radiography research: a bibliometric study. *J Med Imaging Radiat Sci.* 2025;56(5):101960.
11. Abdelwahab SI, Taha MME, Farasani A, et al., **Ibrahim IAA**, et al. Bibliometric analysis of the top 100 most-cited papers in aesthetic plastic surgery. *Aesthetic Plast Surg.* 2025;49(9):2568–2587.
12. Abdelwahab SI, Taha MME, Farasani A, et al., Aziz **Ibrahim IA**, Hassan W. Bibliometric analysis of ST-elevation myocardial infarction research (1933–2023). *Curr Probl Cardiol.* 2025;50(1):102923.
13. Falemban AH, **Ibrahim IAA**, Bamagous GA, et al. Fabrication of NiO nanoparticles modified with carboxymethyl cellulose and D-carvone for antimicrobial, antioxidant and anticancer activities. *Inorg Chem Commun.* 2025;171:113517.
14. Abdelwahab SI, Taha MME, Farasani A, et al., **Ibrahim IAA**, et al. The evolution of calcium alginate-based dressings in wound healing: a bibliometric review. *Clin Dermatol.* 2025;43(3):389–400.
15. Bamagous GA, **Ibrahim IAA**, Alzahrani AR, et al. Multifunctional SnO₂–chitosan–D-carvone nanocomposite for biomedical applications. *J Inorg Organomet Polym.* 2025;35:3111–3127.
16. Almailani RA, **Ibrahim IAA**, Almailani G, et al. Biocompatible barium peroxide/Pluronic F127/L-ornithine composite with antimicrobial, antioxidant and anticancer potential. *J Inorg Organomet Polym.* 2025;35:3454–3470.
17. Abdelwahab SI, Taha MME, Farasani A, et al., **Ibrahim IAA**, et al. Top 100 most-cited papers in the Journal of Religion and Health. *J Relig Health.* 2025;64(1):6–33.

◆ 2024

18. Alzahrani AR, Mohamed DI, Abo Nahas HH, et al., **Ibrahim IAA**, et al. Trimetazidine alleviates bleomycin-induced pulmonary fibrosis via the lncRNA CBR3-AS1/miRNA-29/FIZ1 axis. *Drug Des Devel Ther.* 2024;18:3959–3986.
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AWARDS & HONOURS

- ★ **Award for Highest Research Productivity** — Recognised for publishing the largest number of ISI-indexed research articles at the Faculty of Medicine, Umm Al-Qura University (2nd session, 2018).
- ★ **Second International Prize — Okaz International Arabic Calligraphy Competition (2015)** — Honoured by His Royal Highness Prince Khalid Al-Faisal, Governor of the Makkah Region.
- ★ **Certificate of Thanks & Appreciation** — Deanship of the Faculty of Medicine, Umm Al-Qura University.

CULTURAL & LITERARY CONTRIBUTIONS

Prof. Ibrahim is an accomplished Arabic poet and master calligrapher whose scholarly identity integrates biomedical science with Arabic literary and artistic expression. He is the author of the published Arabic poetry collection Qalam Al-Jamal ("The Pen of Beauty") and has received international recognition in Arabic calligraphy through the Okaz International Competition. He serves as a member of the Saudi Scientific Association for Arabic Calligraphy and on the jury of the Okaz International Competition.

PROFESSIONAL MEMBERSHIPS & SERVICE

- Malaysian Society of Pharmacology and Physiology.
- Jordan Society for Medical Laboratory Sciences.
- Saudi Society for Clinical Chemistry; Saudi Toxicology Society (STS).
- Saudi Scientific Association for Arabic Calligraphy; jury member, Okaz International Competition.
- Reviewer, Archives of Medical Sciences and Journal of Steroids & Hormonal Science.
- Organising Committee, 1st & 2nd Saudi Conferences of Clinical Toxicology (1438/1439 & 1439/1440 AH).

CONFERENCES & PRESENTATIONS

Over 25 national and international contributions, including invited lectures, oral presentations, and posters. Selected items are listed below.

- The Eighth Arab Conference of Clinical Biology and the First Jordanian Conference of Medical Laboratory Sciences (1997).
- Ibrahim IA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Effect of palm vitamin E and α -tocopherol on gastric acidity, gastric motility and gastric lesions in rats exposed to water-immersion restraint stress. 8th Medical & Health Research Week, HUKM, 15–22 July 2006.
- Ibrahim IA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Effect of palm vitamin E and α -tocopherol on gastric acidity, gastric motility and gastric lesions in rats. 31st Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology, Bangi, 17 August 2006.
- Ibrahim AA, Hammodi NM, Sulaiman WR. Influences of atenolol on some biochemical laboratory findings. UM Graduate Symposium, 1–2 June 2006.
- Ibrahim IA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Protective effect of palm vitamin E and α -tocopherol against gastric lesions induced by water-immersion restraint stress in Sprague-Dawley rats. International Medical & Health Congress, Universiti Sains Malaysia, Kelantan, 25–28 May 2007.
- Ibrahim IA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Protective effect of palm vitamin E and α -tocopherol against gastric lesions in Sprague-Dawley rats. 43rd Annual Scientific Seminar of the Malaysian Society of Parasitology and Tropical Medicine & Centenary of the Royal Society of Tropical Medicine and Hygiene (UK), Kuala Lumpur, 20–22 March 2007.
- Ibrahim IA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Effect of palm vitamin E and α -tocopherol on gastric acidity, gastrin, gastric prostaglandin E2 and gastric lesions in rats. 9th Medical & Health Research Week, UKM, 14–20 July 2007.
- Kamisah Y, Ibrahim AA, Nafeeza MI, Nur Azlina MF. Effects of water-immersion restraint stress on catecholamines and its modulation by palm vitamin E and α -tocopherol in rats. Malaysia–Indonesia–Brunei (MIB) Medical Science Conference, Universiti Brunei Darussalam, 28–29 July 2007.
- Nur Azlina MF, Ibrahim AA, Kamisah Y, Nafeeza MI. Effects of water-immersion restraint stress on corticosterone and its modulation by palm vitamin E and α -tocopherol in rats. 2nd Health & Medical Sciences Conference, USM, Penang, 18–20 June 2008.
- Ibrahim AA, Kamisah Y, Nafeeza MI, Nur Azlina MF. Modulation of plasma acetylcholine and gastric motility in rats given enteral palm vitamin E and α -tocopherol and exposed to water-immersion restraint stress. 23rd Malaysian Society of Pharmacology and Physiology Scientific Meeting, Kuala Lumpur, 12–13 May 2009.
- Ibrahim IA, Al-Joudi FS, Sulaiman WR, Hammodi NM, Al-Saffar HB. The in-vivo effects of methyldopa on serum biochemical laboratory findings in patients newly diagnosed with essential hypertension. 24th Malaysian Society of Pharmacology and Physiology Scientific Meeting, SACC Convention Centre, 2–3 June 2010.
- 7th International Medical Education Conference (IMEC-2010), “Future of Medical Education,” International Medical University, Bukit Jalil, 24–26 2010.
- Syidiq MNR, Nur Azlina MF, Ibrahim IA, Vellayan S, Nafeeza MI. Protective effect of pure tocotrienol concentrate on experimental haemorrhagic gastritis induced by acute stress. Research Colloquium, Faculty of Medicine, UiTM, Port Dickson, 28–30 July 2011.
- Ibrahim AA, et al. A study to compare students’ perception of seminars as a teaching–learning method in two Malaysian universities. Summit on Medical Education, Selayang Campus, 4–5 December 2011.
- Huzaimi MH, Ibrahim AA, et al. Students’ perception of computer-aided learning in pharmacology: comparing a public and a private university. Summit on Medical Education, Selayang Campus, 4–5 December 2011.
- Nimir AR, Ibrahim R, Ibrahim IA. Salmonella meningitis: a case report (poster). International Congress of the Malaysian Society for Microbiology, Penang, 8–11 December 2011.
- Invited lecture: “Tocotrienol in Stress-Induced Gastric Mucosal Injury.” CME programme, Security Forces Health Centre, Makkah, 19 March 2013.

- “The effects of drugs and adverse harms on the individual, family, community and country, and how to handle and prevent them.” Lecture series, Special Forces Centre for the Security of Hajj and Umrah, Makkah, 9–11 December 2014.
- “Scientific Thinking and the Foundation of Research Methods and its Ethics.” King Abdulaziz Historical Hall, Umm Al-Qura University, 19 November 2014.
- “Research Methodology and Project Design.” King Abdulaziz Historical Hall, Umm Al-Qura University, 4 December 2014.
- “Searching the Scientific Databases and How to Detect and Avoid Plagiarism.” King Abdulaziz Historical Hall, Umm Al-Qura University, 17 December 2014.
- “Biostatistics and SPSS.” King Abdulaziz Historical Hall, Umm Al-Qura University, 17 February 2015.
- “Prevention & Management of Diabetes in KSA.” Jeddah Annual Scientific Conference of the Ministry of Interior, 11–12 February 2015.
- Poster: “*Olea europaea* and *Juniperus procera* leaf extracts modulate stress hormones and interstitial cystitis in stressed rats.” Urology Conference, March 2017.
- Member, Organising Committee, 1st Saudi Conference of Clinical Toxicology (1438/1439 AH).
- Member, Organising Committee, 2nd Saudi Conference of Clinical Toxicology (1439/1440 AH).

EDUCATIONAL MATERIALS & MEDIA

Modules & Manuals

- PBL Facilitator Guide — “Oedema,” Urinary System Block, Faculty of Medicine, CUCMS (2009/2010). Package designers: Prof. Dr. Noor Aini Abd Hamid, Dr. Ibrahim Abdel Aziz Ibrahim, and PBL Committee members.
- PBL Facilitator Guide — “Loin Pain,” Urinary System Block, Faculty of Medicine, CUCMS (2009/2010). Package designers: Prof. Dr. Noor Aini Abd Hamid, Dr. Ibrahim Abdel Aziz Ibrahim, and PBL Committee members.

Media Appearances

- “Palm oil contains a vitamin that protects against gastric ulcer.” Interview with Al-Jazeera.net, 15 October 2008.
- “Increasing demand for herbs in Malaysia.” Interview with Al-Jazeera.net, 11 September 2011.
- Interview with the Journal of Arabic Letters (Huroof Arabiah), Issue 26, October 2010, Dubai, UAE.
- Interview with Al-Jazirah Daily Newspaper, Issue 13966, 24 December 2010, Riyadh, Saudi Arabia.

TRAINING

- 1997–1998 — Practical training across all medical-laboratory sections (BSc requirement), Al-Basheer Hospital and Islamic Hospital, Amman.
- 1999–2000 — Practical training across all medical-laboratory sections (MSc requirement), Al-Kadhimiyya Hospital.
- November 2001 — Practical training across all medical-laboratory sections, Islamic Hospital Laboratories, Amman, Jordan.

WORKSHOPS

- PCR & Real-Time PCR: Principles and Applications. CUCMS, 21 January 2010.
- “Mentoring: Passion to Care” Training Workshop. Bukit Tinggi, Pahang, 18–20 December 2009.
- Student-Centred Team-Based Learning (SCTL): Instructional Design Template. CUCMS, 29 July 2009.
- Affective-Domain Curriculum Review. CUCMS, 24 June 2009.
- Advanced Training on Facilitation and Construction of PBL Cases — Prof. Dr. Samy A. Azer. CUCMS, 27–28 April 2009.
- Educational Leadership in a World of Change — Dr. Jonas Nordquist, Karolinska Institutet, Sweden. IMU, Bukit Jalil, 24 March 2010.

- Assessing Attitudes in Medical Students. IMU, Bukit Jalil, 24 March 2010.
- The PBL Facilitation Skills Workshop — Faculty of Medicine, UKM. CUCMS, 4–5 August 2010.
- Training in Teaching–Learning. Centre for Medical Sciences Education, CUCMS, Port Dickson, 19–21 July 2010.
- Affective-Domain Curriculum Review Retreat. CUCMS, Port Dickson, 25–27 June 2010.
- Tocotrienol Research Discussion — Prof. Dr. Nafeeza Mohd Ismail. Faculty of Medicine, UiTM, Shah Alam, 23 August 2010.
- Research Methodology Workshop: “How to Start?” CUCMS, 18–19 October 2010.
- Research Methodology Workshop: “Finishing — Publishing Your Research Work.” CUCMS, 9 December 2010.
- Workshop on the SOP of LACU. UiTM, Sg Buloh Campus, 15–16 June 2011.
- PBL Workshop: Facilitating a PBL Session. UiTM, Shah Alam, 23 September 2011.
- Lecture on Natural Product Chemistry — Prof. Dr. Atta-ur-Rahman, FRS. 19 October 2011.

REFERENCES

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