

ALJAWHARAH F. ALABBAD

Assistant Professor

CONTACT

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✕ Aljawharah_F

QUALIFICATIONS

2024

UNIVERSITY OF MANCHESTER

- PhD in Medical Microbiology

2024

UNIVERSITY OF MANCHESTER

- Fellow of Higher Education in Health and Medicine

2013

KING SAUD UNIVERSITY

- Master of Microbiology—Biotechnology

2009

KING SAUD UNIVERSITY

- Bachelor of Botany and Microbiology

CERTIFICATES

2021

UNIVERSITY OF MANCHESTER

- Postgraduate certificate for Medical and Health education

2026

INTERNATIONAL BUSINESS TRAINING ASSOCIATION (IBTA)

- Certified Business Professional in Leadership (CBP-L)

WORK EXPERIENCE

- **King Saud University** 2025 - PRESENT
Assistant professor
- **King Saud University** 2019 - 2025
Lecturer
- **University of Manchester** 2019 - 2024
Teaching assistant
- **King Saud University** 2016 - 2017
Manager of innovation unit of science college.
- **Mawhiba** 2015 - 2016
Post trainer of Biology
- **King Saud University** 2009 - 2019
Demonstrator

COMMITTEE PARTICIPATION

- **King Saud University** 2025 - Present
Coordinator of the Community Partnership Committee
- **King Saud University** 2025 - Present
Department Representative for the Executive Committee Initiative on Dialogue Sessions at the College of Science
- **King Saud University** 2025 - Present
Member, Development and Quality Committee, Department of Botany and Microbiology
- **King Saud University** 2025 - Present
Member, Curriculum, Learning Resources, Equivalency, and E-Learning Committee
- **King Saud University** 2025 - Present
Coordinator of Course 140 MBIO (General Microbiology)
- **King Saud University** 2009 - 2017
Member of the Evaluation Committee and Academic Accreditation
- **King Saud University** 2009 - 2010
Member of the Supervisory Committee on laboratories

LANGUAGES

- English (Fluent)
- Arabic (Fluent)

LABORATORY SKILLS

- Protein engineering
- Protein purifications
- Molecular cloning
- Cell culture
- *In vivo* studies
- Data Analysis
- Gene designing

SOCIAL SKILLS

- Career ambition
- Charisma
- Innovation
- Effective communication
- Team work spirit
- Healthy Competition
- Problem-solving skills
- Social Responsibility
- Leading
- Ethics of leadership
- Public speaking

INTEREST

- Protein-based vaccine
- Vaccine strategies
- Immunological assays
- Biotechnology
- Microarray technology

●	King Saud University	2010
	Member of the Commission annual reports	
●	King Saud University	2010
	Member of the Supervisory Committee on the functioning tests	
●	King Saud University	2010 - 2017
	Member of the Committee on Academic Advising for students	
●	King Saud University	2014 - 2017
	Member of Steering committee in Accreditation program for the department	
●	King Saud University	2015 - 2016
	Member of ISO quality management system at the level of department	

PUBLICATIONS

- Abdel-Maksoud, M. A., et al. (2026). Upregulation of PHLDA genes drives malignancy and therapeutic resistance in head and neck cancer. *Cytotechnology*, 78(4), 124.
- Begum, N., et al. (2026). Phylogeography and population structure of the invasive land snail *Monacha cartusiana*. *International Journal of Molecular Sciences*, 27(10), 4318.
- Badshah, F., et al. (2025). Prevalence, antibiotic resistance pattern, and molecular characteristics of *Staphylococcus epidermidis* isolated from dairy cattle. *Journal of Tropical Medicine*.
- Saleem, G., et al. (2025). Potential of banana peel extract powder as an alternative to antibiotics for treating *Salmonella Gallinarum* infection in broiler chicks. *Poultry Science*.
- Malik, M. Z., et al. (2025). Antibiotic susceptibility pattern and resistance genes in *Salmonella* strains isolated from cattle. *BMC Veterinary Research*, 21, 665.
- Tornaletti, L. B., Alabbad, A. F., et al. (2025). Application of a novel virus-like particle platform to the development of *Neisseria* vaccines. *Journal of Biotechnology*, 406.
- Al-Homaidan, A. A., et al. (2021). Effect of sampling time on heavy metal concentrations of brown algae. *Chemosphere*, 263, 127998.
- Al-Homaidan, A. A., Al-Abbad, A. F., et al. (2016). Lead removal by *Spirulina platensis* biomass. *International Journal of Phytoremediation*, 18(2), 184–189.
- Al-Homaidan, A. A., et al. (2015). Adsorptive removal of cadmium ions by *Spirulina platensis* dry biomass. *Saudi Journal of Biological Sciences*, 22(6), 795–800.
- Al-Homaidan, A. A., & Al-Abbad, A. F. (2014). Adsorption of Pb(II) ions on *Spirulina* biomass. *International Journal of Environmental Engineering*, 2(1), 53.
- Alabbad, A. F. Developing Novel Protein-Based Strategies for Combating Infectious Disease Transmission. PhD thesis. Supervisors: Prof. Jeremy Derrick and Dr. Jennifer Cavet.
- Alabbad, A. F. Lead Removal by *Spirulina platensis* Biomass. Master's dissertation. Supervisors: Prof. Ali Al-Homaidan and Prof. Amal Al-Hazzani.

CONFERENCES

- **2023 International Society for Vaccines (ISV) Annual Congress**, Lausanne, Switzerland, 22-24 October 2023 – Presented a poster titled "A Novel Virus-Like Particle Vaccine Platform Elicits Robust IgG Responses Against Selected Meningococcal Antigens in vivo".
- **23rd International Pathogenic Neisseria Conference (IPNC 2023)**, Boston, MA, USA, 24-29 September 2023 – Presented a poster titled "A Novel Virus-Like Particle Vaccine Platform Elicits Robust IgG Responses Against Selected Meningococcal Antigens in vivo".

WORKSHOPS, TRAINING & CERTIFICATIONS

Professional Development & Training Programs

- **Opportunity Identification and Its Mechanisms Workshop** – King Abdullah Institute for Research and Consulting Studies, King Saud University, **February 2026**.
- **Project Financial Engineering** – King Abdullah Institute for Research and Consulting Studies, King Saud University, 1-2 December 2025.
- **Preparing Technical and Financial Proposals** – King Abdullah Institute for Research and Consulting Studies, King Saud University, 11-12 November 2025, 9 training hours.
- **Artificial Intelligence Fundamentals** – offered by IBM, 2025.
- **Foundation Program in Artificial Intelligence** – offered by the Centre for Advanced Studies in Artificial Intelligence, King Saud University, 2025.
- **Measuring Learning Outcomes of Academic Programs** – offered by the Deanship of Skills Development in 2025.
- **Learning Management System (Blackboard)** – offered by the Deanship of Skills Development in 2025.
- **20th International Vaccinology Course** – International Vaccine Institute (IVI), Seoul, 6-10 September 2021.
- **Bacterial Genomes: From DNA to Protein Function Using Bioinformatics** – Wellcome Genome Campus Advanced Courses & Scientific Conferences, accredited by the Royal College of Pathologists (10 CPD credits), 2020.
- **MATLAB & SIMULINK: From Algorithm to Simulation** – Innovation and Prototyping Centre (IPC), King Abdulaziz University, 8/10/2020 (4-day online workshop).
- **English Language Courses** (Intermediate, Upper Intermediate, and Advanced Levels) – University of Manchester, UK (2017-2018).
- **Pre-sessional Academic English Course** (Five Months) – University of Manchester, UK (2018).
- **Research Integrity in Biomedical Sciences** – Oxford University Press, 24 September 2018.
- **Creative Teaching Skills Program** – King Saud University (KSU), 16/11/2014 (6 training hours).
- **Ethics of University Teaching Profession Program** – KSU, 12/11/2014 (5 training hours).
- **Mind Maps: Applications in College Teaching** – KSU, 19-20/11/2014 (10 training hours).
- **Building and Managing Teams Program** – KSU, 24/11/2014 (6 training hours).
- **Integrating Technology in University Teaching** – KSU, 8-10/3/1436 H (12 training hours).

- **Basics of Committee Work Program – KSU, 22-23/2/1436 H (8 training hours).**
- **Quality Management System in Educational Institutions (ISO 9001:2008) – KSU, 15-17/8/1436 H (2-4/6/2015) (15 training hours).**
- **In-Depth Study of ISO 9001 Standards – KSU, 28-1/5-6/1437 H (8-10/3/2016) (12 training hours).**
- **Internal Quality Auditor Qualification Program – KSU, 11-12, 15/6/1437 H (20-21, 24/3/2016) (12 training hours).**

Workshops & Specialised Training

- **Workshop on Educational Plan Updates – Department of Botany and Microbiology, KSU, 16/12/2009.**
- **Obesity and Lifestyle Changes Workshop – Organised under the Sheikh Ali bin Sulaiman Chair for Obesity Studies, Faculty of Medicine, King Khalid University Hospital, KSU, 15/05/1431 H.**
- **Intellectual Property & Technology Licensing Workshop – Organised by the Developmental Agency for Higher Studies and Scientific Research, KSU, 26/04/2010.**
- **Academic Guidance Workshop – Organised by the Department of Botany and Microbiology, KSU, 1431 H.**
- **Workshop on Excellence in Petrochemicals: National & International Vision.**
- **International Computer Driving License (ICDL) Course – Institute of New Horizons, 1429 H.**
- **Laboratory Training – Central Labs, College of Science & Medical Studies, as a prerequisite for Biotechnology Assistant Decision (Master's Level), Malaz Campus, 1430**

Trainer & Leadership Roles

- **Biology Trainer – Mawhiba Summer Forum (Saudi Arabia International Teams for the Science Olympiad):**
- Princess Nourah University, Riyadh – 18-28/8/1436 H (5-15/6/2015).
- Courtyard Marriott Hotel, Riyadh – 30/11-3/4/1437 H (10-21/1/2016).
- Novotel Suites, Riyadh – 19-29/8/1437 H (26/5-5/6/2016).
- **Contributor to Science Olympiad Training Packages – Developed training materials on Human Biology, Taxonomy & Ecology, Cytology & Tissue, and Genetics for the Saudi Arabia International Olympiad Team, as part of Mawhiba initiatives.**