CONTACT

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- X Aljawharah_F

QUALIFICATIONS

2024

UNIVERSITY OF MANCHESTER

• PhD in Medical Microbiology

2024

UNIVERSITY OF MANCHESTER

 Fellow of Higher Education in Health and Medicine

2021

UNIVERSITY OF MANCHESTER

 Postgraduate certificate for Medical and Health education

2013

KING SAUD UNIVERSITY

 Master of Microbiology— Biotechnology

2009

KING SAUD UNIVERSITY

 Bachelor of Botany and Microbiology

LANGUAGES

- English (Fluent)
- Arabic (Fluent)

ALJAWHARAH F. ALABBAD

Assistant Professor

PROFILE

I am a researcher in microbiology and protein-based vaccine development, specialising in the molecular mechanisms of bacterial infection and vaccine design strategies. With over 14 years of experience as a Teaching Assistant at King Saud University, I have taught and supervised undergraduate and postgraduate students in microbiology, immunology, and molecular biology courses and laboratories. Beyond teaching, I have led and implemented various academic and administrative projects, including curriculum design, quality assurance, and e-learning platforms. My expertise extends to administration, operating systems, and ISO standards, enabling me to optimise research and teaching processes. I am passionate about advancing scientific knowledge and innovation in biotechnology, contributing to global health and well-being. I value collaboration, diversity, and excellence and seek to work with teams that share these values and aspirations.

WORK EXPERIENCE

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

COMMITTEE PARTICIPATION

•	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

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
Member of the Commission annual
reports

2010

2010

King Saud University

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

- Patent contribution. Derrick, J. R., S, 2023. *Virus-like particles*, in International Bureau, Property, W.I., Editor. WO2023187383A1. p. 169.
- Al-Homaidan AA, Al-Abbad AF, Al-Hazzani AA, Al-Ghanayem AA, Alabdullatif JA. *Lead removal by Spirulina platensis biomass*. Int J Phytoremediation. 2016;18(2):184-9. doi: 10.1080/15226514.2015.1073673. PMID: 26280392.
- Al-Homaidan AA, Alabdullatif JA, Al-Hazzani AA, Al-Ghanayem AA, Alabbad AF. Adsorptive removal of cadmium ions by Spirulina platensis dry biomass. Saudi J Biol Sci. 2015 Nov;22(6):795-800. doi: 10.1016/j.sjbs.2015.06.010. Epub 2015 Jun 16. PMID: 26587009; PMCID: PMC4625374.
- Al-Homaidan, A.A., Al-Abbad, A.F. 2015. Adsorption of Pb (II) ions on Spirulina biomass: An eco-friendly process. International Journal of Environmental Engineering. 2(1): 53.
- Al-Homaidan AA, Al-Ghanayem AA, Al-Qahtani HS, Al-Abbad AF, Alabdullatif JA, Alwakeel SS, Ameen F. Effect of sampling time on the heavy metal concentrations of brown algae: A bioindicator study on the Arabian Gulf coast. Chemosphere. 2021 Jan;263:127998. doi: 10.1016/j.chemosphere.2020.127998. Epub 2020 Aug 18. PMID: 32835982.
- Master's Dissertation: "Lead Removal by Spirulina platensis Biomass" supervised by Prof. Ali AlHumaidan and Prof. Amal Alhazzani.
- PhD Thesis: "Developing Novel Protein-Based Strategies for Combating Infectious Disease Transmission" supervised by Prof. Jeremy Derrick and Dr. Jennifer Cavet.

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

- 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 Center (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 H.

Trainer & Leadership Roles

- Biology Trainer Mawhiba Summer Forum (Saudi Arabia International Teams for the Science Olympiad):
- 1. Princess Nourah University, Riyadh 18-28/8/1436 H (5-15/6/2015).
- 2. Courtyard Marriott Hotel, Riyadh 30/11-3/4/1437 H (10-21/1/2016).
- 3. 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.