

ALJAWHARAH F. ALABBAD

Assistant Professor

CONTACT

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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)

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

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

PUBLICATIONS

- Tornaletti, L.B., Alabbad, A.F., Thistlethwaite, A., Rashmi, S. and Derrick, J.P., 2025. Application of a novel virus-like particle platform to the development of *Neisseria* vaccines. *Journal of Biotechnology*.
- 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

- **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.