

Dr. EMAN ALKASASBEH

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[Eman on Researchgate](#)

A PhD in Chemistry with extensive research and teaching experience. Keen to apply the skills and knowledge acquired during my university experience in a working environment as a lecturer, researcher, or student supervisor. Highly organised, with well-developed communication, team spirit and time management skills.

EDUCATION

PhD in chemistry | *University of Canberra* 2014- 2020

Thesis Title: Analysis of natural occurring arsenic-containing riboside by HPLC-ICPMS - use of zirconium anion exchange chromatography and synthesis of chiral arsenoribose standards.

Bachelor's degree in chemistry | *University of Jordan* 2007- 2011

Grade point average: 2.98 out of 4, rating good

Secondary Education | *Aishah High School (Amman-Jordan)* 2007

The general secondary education certificate for the scientific stream, (83.1%)

EXPERIENCE

Assistant professor – Pharmacy Department | *Jadara university* 2023 – current

Teaching unit:

- Instrumental Analysis Methodology.
- Instrumental Analysis lab.
- Analytical Chemistry for Pharmacy Student.
- Analytical Chemistry.
- General Chemistry Lab

Lecturer – Chemistry Department | *University of Jordan* 2021- 2023

- Taught General Chemistry (102)
- Taught Practical Analytical Chemistry (Chemistry 201) and General Chemistry laboratory (106).

Lecturer - Faculty of Science and Technology | *University of Canberra, ACT* 2018 - 2020

- **Chemistry Tutoring Expertise:** Provided tutoring in general, analytical, and organic chemistry, leveraging online teaching resources to enhance the learning experience.
- **Conducting Educational Workshops:** Organized and led tutoring workshops, collaborative projects, and academic support sessions for small student groups, fostering a conducive learning environment.

- **Monitoring Student Progress:** Evaluated and monitored the academic advancement of assigned students to ensure the effectiveness of teaching methods and learning outcomes.
- **laboratory Demonstrations:** Demonstrated laboratory experiments to groups of 20 or more students, enhancing their practical understanding of scientific concepts.

RESEARCH

PhD Research Student | *Ecochemisrty Group* 2015-2020
Faculty of Science and Technology

- Proficient in the development of chromatography methods, I have extensive experience in leveraging High-Performance Liquid Chromatography (HPLC) in conjunction with a range of detectors, including Atomic Fluorescence Spectrometry (AFS), Atomic Absorption Spectrometry (AAS), Inductively Coupled Plasma Mass Spectrometry (ICP-MS), and Electrospray Ionization Mass Spectrometry (ESI-MS).
- I have conducted research into the extraction techniques required to isolate inorganic and organic arsenic compounds naturally occurring in seaweeds. This work involved the development of efficient sample preparation methods, contributing to accurate and reliable analytical results.
- I possess a strong background in optimizing HPLC methodologies for various stationary phases, encompassing reversed-phase, chiral, and ion exchange chromatography.
- I have experience in synthesizing both organic and inorganic arsenic compounds, thereby contributing to a comprehensive understanding of arsenic chemistry and its applications.

PhD Research Student | *Chirality group* 2014 – 2015
Faculty of Science and Technology

- Chiral separation techniques in drugs by HPLC.
- Synthesis of chiral stationary phases.

ACTIVITIES

Volunteer Committee | HDR student conferences (Co-chair) conference. 2019

Volunteer Committee | Program Coordinator for RACI conference. 2018

SKILLS

- **Instrumentation Proficiency:** Skilled in operating various analytical instruments, including NMR, HPLC, ICP-MS, AFS, and ABS, for precise data acquisition and analysis.
- **Project Management:** Adept at planning, resource allocation, deadline management, and achieving project milestones, ensuring efficient project execution.
- **Data Handling and Reporting:** Proficient in managing a high volume of samples using Microsoft Excel and scientific reporting methods, guaranteeing accurate and organized data presentation.
- **Effective Communication:** Possesses strong communication skills, with the ability to deliver research findings at national and international conferences, facilitating the dissemination of scientific knowledge.
- **Bilingual Proficiency:** Fluent in both English and Arabic, enabling effective communication and collaboration in diverse linguistic environments.

PUBLICATION

ALKASASBEH, E., MAHER, W. A., ADLY, F. G., FOSTER, S. & KRIKOWA, F. 2019. The use of zirconium stationary phase to determine the four major arsenoriboses concentrations in marine organisms by high-performance liquid chromatography coupled to inductively coupled plasma– mass spectrometry. *Microchemical Journal*, 150, 104099.

Reference

- Prof. Bill Maher | Professor in Ecochemistry, Faculty of Science and Technology
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