

Aseel Mohammad Shakhatreh, Pharm.D., M.Sc.

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PROFESSIONAL PROFILE

Motivated lecturer with an M.Sc. in Biochemistry and Molecular Biology (GPA 4.11/4.3) and a Pharm.D. Research-active academic with peer-reviewed publications in Elsevier journals focusing on aging, inflammation, oxidative stress, and gastrointestinal physiology. Experienced in multidisciplinary undergraduate teaching, laboratory supervision, clinical mentorship, and animal-based experimental research. Proficient in SPSS and GraphPad Prism for biomedical statistical analysis and publication-quality scientific figures.

EDUCATION

M.Sc. Biochemistry & Molecular Biology (Faculty of Medicine) — Jordan University of Science and Technology (JUST)

GPA: 4.11 / 4.3

Doctor of Pharmacy (Pharm.D.) — Jordan University of Science and Technology (JUST)

Overall Grade: 82.6

Al-Moghbir Secondary School (Tawjihi) — Jordan

2011 | Final Grade: 97

ACADEMIC APPOINTMENT

Full-Time Lecturer — Faculty of Pharmacy, Jadara University

Oct 2024 – Present

- Courses taught: Biochemistry; Biochemistry Laboratory; Medical Terminology; Biology; Anatomy; General Pharmacology (Respiratory Therapy Program).
- Deliver lectures and laboratory instruction; prepare course materials and learning outcomes.
- Design assessments (exams/quizzes/lab practicals) and grading rubrics; ensure fair and consistent evaluation.
- Supervise laboratory sessions and ensure biosafety and quality standards.
- Provide academic advising and mentorship to students; support academic and scientific activities.

ACADEMIC & CLINICAL TEACHING EXPERIENCE

Clinical Training Preceptor — Jordan University of Science and Technology (JUST)

Sep 2017 – Aug 2021 | Feb 2024 – Sep 2024

- Supervised Pharm.D and Clinical Pharmacy Master's students in rotations including cardiology, internal medicine, oncology, and critical/acute care settings.
- Assessed student performance through OSCEs, clinical case presentations, quizzes, projects, and final examinations.
- Provided in-service education for hospital staff and patients to support safe, evidence-based practice.
- Promoted interdisciplinary teamwork and clinical decision-making during rounds and case discussions.

Teaching Assistant (Physiology & Genetics Laboratories) — Jordan University of Science and Technology (JUST)

Sep 2021 – Jun 2022

- Prepared laboratory experiments and guided second-year medical students in physiology and genetics practical sessions.
- Supported molecular/physiology experiments, lab readiness, and practical student evaluation.

RESEARCH EXPERIENCE

Research Assistant — JUST (Faculty of Medicine Laboratories) & King Abdullah University Hospital (KAUH)

Feb 2023 – Jan 2024

- Conducted protein extraction, ELISA assays, RNA extraction, and experimental work using small animal (rat) models.
- Worked as a survey administrator and clinical data collector for breast cancer patients at Dr. Ghaith Hailat Breast Surgery Clinic.
- Managed clinical data using the ISOFT system and supported blood sample collection at KAUH.
- Performed data cleaning, statistical analysis, and figure preparation using SPSS and GraphPad Prism to support research reporting.

PUBLICATIONS

1) Al-Dwairi A., Obeidat S., Shakhatreh A., Al-Shboul O., Alqudah M., Alfaqih M.A., Al-U'datt D.G.F. The impact of hindlimb suspension on gastrointestinal integrity in aged rats: Segment-specific effects on inflammation and oxidative stress. *Experimental Gerontology*. 2025; 112955.

2) Alrosan A., Alkhaleel B., Alkeilani A., Rabbaa A.N., Shakhatreh A.M., et al. Autonomic brain functioning and age-related health concerns. *Current Research in Physiology*. 2024; 7:100123.

MANUSCRIPTS / PROJECTS IN PROGRESS

- Effect of aging on the inflammatory biomarkers in the intestinal and colonic smooth muscle — in progress (Master's thesis-based experimental study).
- Clinical rating of geriatric patient cases with musculoskeletal diseases —in progress.
- 2-3 ongoing clinical data and survey based research.

CONFERENCE PRESENTATIONS & SCIENTIFIC ACTIVITIES

- 3-Minute Thesis Competition — International Conference of the School of Pharmacy (UJPharm2025), University of Jordan — 30–31 July 2025.
- Oral presentation (Master's thesis) — Scientific Day for Graduate Students from Jordanian Universities, Al al-Bayt University — 19 May 2025.
- Poster presentation (presenter/explainer) — Faculty of Pharmacy Scientific Day, Jadara University — 10 Nov 2024: “Novel Chitosan-Based Nanoparticles for Sustained Release Delivery in Liquid Dosage Form.”

ACADEMIC LEADERSHIP & EVENT ORGANIZATION

- Scientific Coordinator — 1st Scientific Day: “Recent Advances in Medical Sciences”) — 17 Nov 2024: coordinated and communicated with doctors and professors; organized scientific sessions and speaker logistics.
- Scientific Coordinator & Organizer — First Scientific Meeting for Graduate Students in Supporting Medical Sciences, Jadara University — 29 Nov 2025: coordinated graduate research presentations; organized academic sessions and discussion panels.

GRANTS & AWARDS

- Competitive Research Funding (Master's Students Research Grant) — Deanship of Research, JUST — 2023 (awarded to Master's student).
- Teaching Assistant Scholarship — Jordan University of Science and Technology — Sep 2021 – Jun 2022.
- Jordanian Teacher Scholarship for Undergraduate Studies — Sep 2011 – Jun 2017.

COURSES & TRAINING

- Flow Cytometry Training Course — Dr. Adeb Al-Zoubi — 3 sessions: 19 Nov 2022, 26 Nov 2022, 3 Dec 2022.

TECHNICAL & ANALYTICAL SKILLS

- Laboratory: ELISA; RNA extraction; protein extraction; agarose gel electrophoresis; flow cytometry (trained level); histological analysis and quantification using ImageJ; small animal (rat) experimental handling/models.
- Data analysis: SPSS; GraphPad Prism; biomedical statistical interpretation and publication-quality figure preparation.

HEALTHCARE EDUCATION, OUTREACH & COMMUNITY SERVICE

- Presentation: DKA Management for nursing staff — Al Bashir Hospital — Jan 2018.
- Educational posters on medication use (e.g., insulin, inhalers, antihypertensives) — Prince Rashed Military Hospital — 2019.
- Presentation: Anticoagulant precautions and administration/nursing staff — Princess Basma Hospital — May 2024.
- Presentation: Teicoplanin and Esmolol nursing and physician guidance— Princess Basma Hospital — Jun 2024.
- Educational posters on Teicoplanin and Esmolol (ICU/IMC) — Princess Basma Hospital — Jun 2024.
- Free Medical Day (student supervision and health education: diabetes, hypertension, obesity, smoking cessation) — Kafr Al-Maa Comprehensive Secondary School for Girls — May 2024.
- Free medical day (breast & ovarian cancer awareness) — Sama Alrosan Hall — 2022; collaborated with Dr. Ghaith Hailat, Dr. Amjad Alrosan, and Dr. Khaled Alrosan.
- Free Medical Day (organization and coordination)— Alhusn — 2025.
- Free Medical Day (organization and coordination) —Som Alshannag school for boys — 2025.

EARLY PROFESSIONAL EXPERIENCE

Chief Pharmacist — Lactose Pharmacy

Jun 2017 – Sep 2017

- Dispensed and compounded prescriptions; provided patient counseling and medication education.
- Reviewed prescriptions for dosing appropriateness and drug–drug interaction considerations; communicated with prescribers when needed.