

# Rania Mahafdeh, PhD

**Head of the Doctor of Pharmacy Department**  
**Faculty of Pharmacy, Jadara University, Irbid, Jordan.**

## **PERSONAL**

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**Address:** The Doctor of Pharmacy Department, Faculty of Pharmacy, Jadara University, Irbid, Jordan.

**Nationality:** Jordan

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## **EDUCATION**

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**2019 – 2023 PhD in Pharmacology**

School of Pharmacy, Queen's University Belfast, United Kingdom

**2018 – 2019 Fellowship in research ethics, Responsible Conduct of Research**

University of California, San Diego, USA, and Jordan University of Science and Technology, Jordan

**2014-2016 Master of Science in Clinical Pharmacy**

Jordan University of Science and Technology, Irbid, Jordan

**2008-2013 Bachelor of Science in Pharmacy**

Jordan University of Science and Technology, Irbid, Jordan

## **ACADEMIC AND PROFESSIONAL APPOINTMENTS:**

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**Sep 2023 - Present Assistant Professor of Pharmacology and Therapeutics**

Faculty of Pharmacy, Jadara University, Irbid, Jordan

**2024 - Present Head of the Doctor of Pharmacy Department**

Faculty of Pharmacy, Jadara University, Irbid, Jordan

## **PROFESSIONAL AND ACADEMIC COMMITTEE SERVICE**

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- Member of the Impact Factor Committee for SDG3 (Sustainable Development Goal 3: Good Health and Well-being), Jadara University, Jordan (2024-Present): Participated in strategic planning to enhance research and academic contributions aligned with SDG3, engaged in activities to improve the university's impact factor and global ranking related to SDG3.
- Head of Training Committee, Faculty of Pharmacy, Jadara University, Jordan (2024–Present)
- Head of Structured Clinical Examinations (OSCE) Committee (2024- present)
- Member of the Steering Committee for ACPE Accreditation, Faculty of Pharmacy, Jadara University, Jordan (2024–Present)
- Member, Institutional Review Board (IRB) Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Higher Accreditation and Quality Assurance Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Faculty's Council, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Research Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Graduate Studies Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Course Accreditation and Transfer Committee, Faculty of Pharmacy, Jadara University, Jordan

(2023–Present)

- Member, Laboratory and Faculty Supplies Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Faculty Bulletin and Web Site Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)
- Member, Curriculum and Study Plan Committee, Faculty of Pharmacy, Jadara University, Jordan (2023–Present)

#### **ACADEMIC SUPERVISION (GRADUATE, MASTER STUDENTS)**

- Co-advisor: Master Student Mussad Alrwaili. Thesis title: “A Cross-Sectional Study to Assess Patterns and Awareness of NSAID Use Among Healthcare Practitioners in Saudi Arabia.” Faculty of Pharmacy, Jadara University, Jordan.
- Co-advisor: Master's Student Ahmad Al-Najar. Thesis title: “Knowledge and Skills of Pre-eclampsia and Eclampsia Management among Healthcare Providers in Jordan.”, Faculty of Pharmacy, Jadara University, Jordan.
- Co-advisor: Master Student Reema Shakhathreh. Thesis title: “Jordanian Pharmacists’ Knowledge, Attitude, and Practices of Different Inhaled Corticosteroid Dosing: A Quasi-Experimental Educational Intervention” Faculty of Pharmacy, Jadara University, Jordan.
- Co-advisor: Master Student, Bayan Alrubayyi. Thesis title: “Physicians’ Knowledge, Skills, and Practice Regarding Multiple Sclerosis (MS) in Saudi Arabia”, Faculty of Pharmacy, Jadara University, Jordan.

#### **TEACHING EXPERTISE (Undergraduate)**

- Clinical Pharmacy and Therapeutics I (pharmacotherapy of the ANS and CNS)
- Clinical Pharmacy and Therapeutics II (pharmacotherapy of the cardiovascular system)
- Selected Topic in Neuropharmacology
- Pharmacology 1 (Introduction to Pharmacology and CNS)
- Pharmacology 2 (cardiovascular disease)
- Pharmacology 3 (Infection and Antibiotics)
- Research Bioethics
- Pharmacology Lab 1
- Pharmacology Lab 2

#### **EDITORIAL DUTIES**

- Peer reviewer for Brain Research, Elsevier, ISSN: 0006-8993
- Peer reviewer for PLOS ONE, ISSN: 1932-6203

#### **RESEARCH INTERESTS**

- Neuropharmacology
- Clinical Pharmacy

- Mental Health
- Cognitive Impairments
- Bioethics

## **PUBLISHED RESEARCH**

- Suzie Rababah, Karem Alzoubi, **Rania Mahafdeh**, Ahmad Alhusban, “A Comparison of Gaming Behaviour between Teens and Preteens and Its Association with Memory, Depression, Anxiety, and Stress in Children” submitted to the journal". Clinical Practice & Epidemiology in Mental Health". Clinical Practice & Epidemiology in Mental Health. Bentham Science Publishers (Accepted July 2025).
- Qasem El-Dwairi, Karem Alzoubi, **Rania Mahafdeh** “Sildenafil Effect on Testosterone-Induced Prostate Hypertrophy and Relaxation of Urinary Bladder Neck Muscles”. Toxicology Reports. Elsevier. 30 Jun 2025
- Ahmad Alkofahi, Karem H. Alzoubi, Omar F. Khabour, **Rania Mahafdeh**, and Mohammad Shawaqfeh, "The beneficial effects of Eriobotrya japonica Lindl. leaf extract on body weight, glycemic control, and lipid profile." Current Diabetes Reviews, Bentham Science Publishers. 13 May 2025
- Alhawari, Hussein, Sameeha AlShelleh, Nisreen Abu Shahin, Mahmoud Alkawareek, Reem Alabbassi, Maryam K. El-Zubi, **Rania Mahafdeh**, Karem H. Alzoubi, and Alaaldin M. Alkilany. "Kidneys Toxicity and Biodistribution of Albumin-Based Gold and Silver Nanoclusters." Current Drug Delivery. 09 April 2025
- Al Mortadi, Noor, Khaled Al Qudah, Sabha Alshatrat, Karem H. Alzoubi, and **Rania Mahafdeh**. "Periodontal Health and Total Antioxidant Capacity for Jordanian Smokers at Dental Teaching Clinic." International Journal of Dentistry. Wiley. 21 July 2025
- Katamesh, Ahmed A., Hend Mohamed Abdel-Bar, **Rania Mahafdeh**, Mohammed Khaled Bin Break, Shimaa M. Hassoun, Gehad M. Subaiea, Mostafa E. El-Naggar, Khaled Almansour, Hadel A. Abo El-Enin, and Heba A. Yassin. "Tunable Intranasal Polymersome Nanocarriers Triggered Olanzapine Brain Delivery and Improved In Vivo Antipsychotic Activity." Pharmaceutics. MDPI. 23 June 2025
- Aiman A. Shoiab, Jumanah D. Al-Shawabkeh, Alia Khwaldeh, **Rania Mahafdeh**, Ali Ata Alsarhan, Naznin Sultana, “Antihyperlipidemic and Antidiabetic Effect of Orthosiphon stamineus Benth Extract on Diabetic rats”, Jordan Journal of Pharmaceutical Sciences (JJPS). 2024
- **Rania Mahafdeh**, Colin McCoy, “Eradication of E. coli and S. aureus by Ciprofloxacin-loaded hydrogel”, British Journal of Pharmacy (2022), DOI: 10.5920/bjpharm. 1135.
- **Rania Mahafzah**, Karem H. Alzoubi, Omar F. Khabour, and Rana Abu-Farha, “Awareness and Perception of Healthcare Providers about Proxy Consent in Critical Care Research,” Critical Care Research and Practice (2021), DOI: 10.1155/2021/7614517.
- **Rania Mahafzah**, Karem H. Alzoubi, Omar F. Khabour, “The attitudes of relatives of ICU patients toward informed consent for clinical research”, Critical Care Research and Practice (2020), DOI: 10.1155/2020/2760168.

- Alzoubi, Karem H., Fadia A. Mayyas, **Rania Mahafzah**, and Omar F. Khabour. Melatonin prevents memory impairment induced by high-fat diet: Role of oxidative stress." Behavioral Brain Research 336 (2018), DOI: 10.1016/j.bbr.2017.08.047.

## **SUBMITTED RESEARCH**

- Noor Al Mortadi, Khasawneh L, Al-Zoubi, K, Khabour O., Fodeh R, **Rania Mahafdeh**. "The Effect of Thermal Cycling and Cyclic Loading on The Flexural Strength of Milled PMMA Versus 3D Printed PEEK as a Provisional Restorative Restoration" (**Submitted, Under Review, 2025**).
- Suhaib Talafhah1, Qasim El-Dwairi, Amjad Mahasneh, Karem H. Alzoubi, **Rania Mahafdeh**, "ERCC2 and XRCC1 Polymorphisms and Susceptibility to Lung Cancer" (**Submitted, Under Review, 2025**).
- **Rania Mahafdeh**, Karem Alzoubi, Ahmad Alhusban, Suzi Rababah, "The Extent and Characteristics of Internet Gaming among School Children: A Study from a Developing Country" (**Submitted, Under Review, 2024**).
- Noor Al Mortadi, Karem H. Alzoubi, Omar Khabour, Taha Rababa, **Rania Mahafdeh**, "Color Stability of PEEK, PMMA, and Acrylic Teeth upon Waterpipe Smoking Exposure", (**Submitted, Under Review, 2024**).

## **PROFESSIONAL CONFERENCE COMMITTEE**

- **Scientific Committee Member**, "First National Drug Security Conference: Safeguarding Sustainability", a collaborative effort between the Jordanian Charity Medicine Bank, the Jordan Food and Drug Administration, the Jordan Pharmacists Association, and the Sons of the Kingdom Association, Amman, Jordan (2-3 Nov 2024)
- **Member of The Higher Committee**, "Pharmacy New Era: Advancement in Health Care Sector", a collaborative effort between the Faculty of Pharmacy at Jadara University and the Jordan Pharmacists Association, Irbid, Jordan (10 Nov 2024)

## **CONFERENCE PRESENTATIONS**

- **Rania Mahafdeh (as speaker)**: "Awareness of Healthcare Providers about Proxy Consent in Critical Care Research," 17th World Congress of Bioethics, Doha, Qatar, June 2024.
- **Rania Mahafdeh (as speaker)**: "Perceptions of Jordanian Clinical Pharmacists about Ethical Considerations of Using Generative AI in Medication Therapy Management," 17th World Congress of Bioethics, Doha, Qatar, June 2024.
- **Rania Mahafdeh (as speaker)**: "Awareness of Healthcare Providers and Patients' Relatives about Proxy Consent in Critical Care Research", The 8th International Conference on Ethics in the MENA: Implementing Bioethics Policies, hosted by the University of Science & Technology, Yemen, and The Responsible Conduct of Research (RCR) program, Jordan University of Science and Technology, Irbid, Jordan and the University of California at San Diego, CA, USA, Dec-09/10, 2023.
- **Rania Mahafdeh (Poster)**: "Eradication of E. coli and S. aureus by Ciprofloxacin-loaded hydrogel", Academy of Pharmaceutical Sciences (APS PharmSci), Belfast, UK, 2022
- **Rania Mahafdeh (as speaker)**: "The role of singlet oxygen generation from photodynamic hydrogel in

infection control”, United Kingdom & Ireland Controlled Release Society (UKICRS), Manchester, UK, 2022

- **Rania Mahafdeh (Poster):** “Investigation of the light-controlled antibacterial properties of a photosensitizer incorporated copolymer”, Academy of Pharmaceutical Sciences (APS PharmSci), 2021
- **Rania Mahafdeh (as speaker):** “The Attitudes of Relatives of ICU Patients Toward Informed Consent for Clinical Research,” 5th International Conference on Research Ethics in the MENA, Jordan University of Science and Technology, November 6-7, 2020.
- **Rania Mahafdeh, (as speaker):** "Adolescent Informed Consent Form," Research Ethics Education Program, Jordan University of Science and Technology (2018).
- **Rania Mahafzah,** Karem Alzoubi, “High Fat Diet and Memory Impairment,” IBRO Advanced School in Neurodegenerative Disorders: Translation into Clinical Neurology (2017).

## **SEMINARS**

- **Examining Glucagon-Like Peptide-1 Receptor (GLP-1R) Agonists for Central Nervous System Disorders,** Virtual Workshop, NASEM Neuroscience Forum (September 2024).
- **Bioethics, Global Justice, and Longevity Research Conference,** sponsored by the Hevolution Foundation and the NYU Division of Medical Ethics, NYU Grossman School of Medicine. (October 12-13, 2023).
- **Research Integrity in the Age of Disruptive Technologies.** By Sergio Litewka, MD, MPH, Associate Professor, DeWitt Daughtry Family Department of Surgery, Miller School of Medicine and the Institute for Bioethics and Health Policy, University of Miami, Miami, FL, USA (September 2023)
- **The Academic CV: Should It Portray the Good, the Bad, and the Ugly? An Ethical Perspective.** By Professor Thomas H. Champney, Department of Cell Biology, University of Miami, Miller School of Medicine, and the Institute for Bioethics and Health Policy, Miami, FL, USA. (May 2023)
- **Peer Review and Editorial Ethics.** By Dena Plemmons, Director, Research Ethics & Education Program, University of California, Riverside (UCR), CA, USA. (February 2021)
- **Mental Health Ethics and Neuroethics.** By Dr. Wael Al-Delaimy, RCR Director and Professor, Division Chief of Global Health, Family Medicine, and Public Health, UCSD, CA, USA, and Dr. Khalid El-Salem, Professor, Vice President, and Former IRB Director, Jordan University of Science and Technology, Irbid. (December 2020)

## **AWARDS AND HONORS**

- **Best Poster Award (Judges' choice poster award),** Academy of Pharmaceutical Sciences (APS PharmSci), Belfast, UK, 2022
- **Awarded Jadara University Scholarship,** School of Pharmacy (Tuition fees and stipend due to academic excellence), Jordan, to get a PhD in Pharmacy from Queen's University Belfast (2019)
- **Awarded Responsible Conduct of Research Fellowship,** University of California, San Diego (UCSD) (June 2018).
- **Best Master's Thesis Award for the academic year 2016/2017.** Awarded by the Faculty of Graduate Studies at Jordan University of Science and Technology (April 2018)
- **Awarded a scholarship (for academic excellence),** Faculty of Graduate Studies. This scholarship covers

tuition fees and stipends from 2015 to 2017.

- **Honor list - College of Pharmacy**, Jordan University of Science and Technology, Irbid, Jordan (2012-2013)

## **VOLUNTEERING EXPERIENCES**

- Medical Awareness Day about antibiotic use, Faculty of Pharmacy, Jadara University, Jordan (14 Nov 2025)
- Medical workshop to mark World Diabetes Day, Faculty of Pharmacy, Jadara University, Jordan (14 Nov 2024)
- A World Alzheimer's Day event, Jadara University, Jordan (21 Sep 2024)
- World Antimicrobial Awareness Week Event, Faculty of Pharmacy, Jadara University, Jordan (18-24 Nov 2023)
- The Jordanian Students' Society (IZWITNA Queen's University Belfast) (2019- present)
- Voluntary campaigns on several open days, Irbid, Jordan. These campaigns spread health awareness and necessary health services, talking about the role of pharmacists in the community and how pharmacists can provide the best health care to the patient through brochures and posters, and giving awareness lectures about the number of diseases (2023- Present)
- Participated as a coordinator at "The Day of Change" event at the Royal Medical Services (RMS) Hospital in Jordan. These voluntary days at the hospital involved distributing brochures and educating patients about the optimal use of anti-diabetic treatments for those in the Internal Medicine Department (2017-2019).

## **PROFESSIONAL MEMBERSHIPS**

- **2013- present** Jordan Pharmaceutical Association (JPA)
- **2021- present** Academy of Pharmaceutical Sciences
- **2023- present** British Pharmacology Society
- **2024- present** ALBA Network
- **2025- present** Arab Academy for Responsible Conduct of Research (AA-RCR)

## REFERENCE

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- Professor Colin McCoy  
Dean of Graduate School,  
School of Pharmacy  
Queen's University Belfast  
Email: [c.mccoy@qub.ac.uk](mailto:c.mccoy@qub.ac.uk)
- Professor Karem Alzoubi  
Dean of the School of Pharmacy  
The University of Sharjah  
United Arab Emirates (UAE)  
Email: [khalzoubi@just.edu.jo](mailto:khalzoubi@just.edu.jo)
- Dr. Matthew Wylie  
Lecturer  
School of Pharmacy  
Queen's University Belfast  
Email: [M.Wylie@qub.ac.uk](mailto:M.Wylie@qub.ac.uk)