

Dr. Ashraf M. A. Qasem, BSc PhD AMRSC

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Academic Rank: Assistant Professor

Membership:

1	Associate Member of the Royal Society of Chemistry (AMRSC)

Qualifications:

1	Ph.D. in Pharmacy and Pharmacology (Natural Products Chemistry), University of Bath, Bath, UK, 2019–2022. Thesis: Isolation, Characterization, and SAR of Norditerpenoid Alkaloids from Delphinium and Aconitum. Supervisors: Dr. Michael G. Rowan and Dr. Ian S. Blagbrough.
2	B.Sc. in Pharmacy, University of Jordan, Amman, Jordan, 2012–2017. Grade: Excellent (3.90/4.00).

Professional Objective(s):

A researcher in natural products chemistry and drug discovery. My work focuses on the study of promising medicinal plants against several biological targets: isolation of their bioactive principles using chromatographic methods, followed by structural elucidation using NMR spectroscopy and mass spectrometry, and the use of medicinal chemistry tools to chemically modify natural active compounds and synthesise small-molecule analogues.

Teaching Experience:

#	From	To	Position / Institution

1	2017	2019	Teaching Assistant, Department of Pharmacy, Zarqa University, Jordan – practical laboratory courses for undergraduates
2	2020	2022	Graduate Teaching Assistant, Department of Pharmacy and Pharmacology, University of Bath, UK – undergraduate workshops and practical courses
3	2023	Until now	Assistant Professor, Faculty of Pharmacy, Zarqa University, Jordan – lectures and laboratory courses for undergraduate pharmacy students

Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
.1	Tyrosinase Modulation and Antioxidant Activity of Jordanian Rhus coriaria L. Fruit Extract. Swellmeen L., Qasem A. M. A., Mansi I., et al., Al-Mamoori F.	Journal of Natural Remedies	2026 (August)
.2	The Therapeutic Potential of Laurus nobilis L. Leaves Ethanolic Extract in Cancer Therapy. Al-Mamoori F., Qasem A. M. A., Al-Tawalbeh D., Abuarqoub D., Hmedat A.	Molecules (MDPI)	2025, 30: 4012
.3	Intramolecular through-space NMR spectroscopic effect of steric compression on 1H NMR spectroscopy. Zeng Z., Qasem A. M. A., Blagbrough I. S., Woodman T. J., Rowan M. G.	Organic & Biomolecular Chemistry (Royal Society of Chemistry)	2024, 22: 7915–7935
.4	Synthesis and Antagonist Activity of Methyllycaconitine Analogues on Human α7 Nicotinic Acetylcholine Receptors. Qasem A. M. A., Rowan M. G., Sanders V. R., Millar N. S., Blagbrough I. S.	ACS Bio & Med Chem Au (American Chemical Society)	2023, 3(2): 147–157
.5	Effect of Position 1 Substituent and Configuration on APCI-MS Fragmentation of Norditerpenoid Alkaloids Including 1-epi-Condelphine. Qasem A. M. A., Rowan M. G., Blagbrough I. S.	ACS Omega (American Chemical Society)	2022, 7(44): 40493–40501
.6	Poisonous Piperidine Plants and the Biodiversity of Norditerpenoid Alkaloids for Leads in Drug Discovery: Experimental Aspects. Qasem A. M. A., Rowan M. G., Blagbrough I. S.	International Journal of Molecular Sciences (MDPI)	2022, 23(20): 12128

.7	Norditerpenoid alkaloids from Aconitum and Delphinium: structural relevance in medicine, toxicology, and metabolism. Qasem A. M. A., Zeng Z., Rowan M. G., Blagbrough I. S.	Natural Product Reports (Royal Society of Chemistry)	2022, 39(3): 460–473
.8	Impacts of Steric Compression, Protonation, and Intramolecular Hydrogen Bonding on the 15N NMR Spectroscopy of Norditerpenoid Alkaloids and Their Piperidine-Ring Analogues. Zeng Z., Qasem A. M. A., Woodman T. J., Rowan M. G., Blagbrough I. S.	ACS Omega (American Chemical Society)	2020, 5(23): 14116–14122
.9	The 1α-hydroxy-A-rings of norditerpenoid alkaloids are twisted-boat conformers. Zeng Z., Qasem A. M. A., Kociok-Köhn G., Rowan M. G., Blagbrough I. S.	RSC Advances (Royal Society of Chemistry)	2020, 10(32): 18797–18805

Books:

#	Book Title	Publisher	Year
.1	Target-Based Coumarin Derivatives as Effective Anticancer Agents (book chapter, with Al-Mamoori F.)		2026
.2	Alkaloids as New Leads for Neurodegenerative Diseases (book chapter, with Al-Mamoori F.), in: Medicinal Plants – Chemical, Biochemical, and Pharmacological Approaches. DOI: 10.5772/intechopen.112584	IntechOpen	2023

Translated Books:

#	Book Title	Publisher	Year
.1			

Articles:

#	Article Title	Publisher	Year
.1			

Conferences:

#	Paper Title	Organizing Institution	Conference

.1	Oral presentation	DAAD (German Academic Exchange Service)	DAAD Taaziz Project Conference, Amman, Jordan, 2023
.2	Oral presentation (Department of Pharmacy and Pharmacology Seminar)	University of Bath	Pharmacy & Pharmacology Seminar, Bath, UK, 2022
.3	Poster presentation	RSC Biological & Medicinal Chemistry Sector (BMCS)	BMCS Postgraduate Symposium XVI, Oxford, UK, 2022
.4	Poster presentation (JPAG Pharmaceutical Analysis Research Awards and Careers Fair) – Poster Award	Joint Pharmaceutical Analysis Group (JPAG)	JPAG Research Awards, London, UK, 2022
.5	2 Poster presentations (XXVII EFMC International Symposium on Medicinal Chemistry)	European Federation for Medicinal Chemistry (EFMC)	EFMC-ISMC 2022, Nice, France
.6	2 Poster presentations (9th EFMC Young Medicinal Chemists' Symposium)	European Federation for Medicinal Chemistry (EFMC)	EFMC-YMCS 2022, Nice, France
.7	Flash poster presentation	Société de Chimie Thérapeutique (SCT)	SCT 29th Young Research Fellows Meeting, Nantes, France, 2022
.8	Poster presentation	RSC NMR Discussion Group	NMR Discussion Group Postgraduate Meeting, Manchester, UK, 2022
.9	Flash poster presentation (JPAG Pharmaceutical Analysis Research Awards and Careers Fair)	Joint Pharmaceutical Analysis Group (JPAG)	JPAG Research Awards, London, UK, 2021
.10	Poster presentation	Royal Society of Chemistry (RSC) / Society of Chemical Industry (SCI)	21st RSC/SCI Medicinal Chemistry Symposium, Cambridge, UK, 2021
.11	Poster presentation	Royal Society of Chemistry (RSC) / Society of Chemical Industry (SCI)	20th RSC/SCI Medicinal Chemistry Symposium, Cambridge, UK, 2019

.12	Oral presentation (Department of Pharmacy and Pharmacology Seminar)	University of Bath	Pharmacy & Pharmacology Seminar, Bath, UK, 2019

Supervision of Theses:

#	Year	University	Thesis Title	Student Name
.1				

Community Service Activities

#	Duration	Activity
1	2025–2026	Vice Dean, Faculty of Pharmacy, Zarqa University
2	2024–2025	Head of Pharmaceutical Sciences Department, Zarqa University
3	2024–2026	Deputy Manager, Pharmaceutical Research Center, Zarqa University
4	2023	Conference organisation: DAAD Taaziz Project Conference, Amman, Jordan

Awards

#	Year	Award
1	2022	JPAG Poster Award, London, UK
2	2022	Snap Your Doctorate! Competition Award, University of Bath, UK
3	2021	SCI Conference Grant Award, Cambridge, UK
4	2019	RSC Conference Grant Award, Cambridge, UK

Languages

#	Level	Language
1	Native	Arabic
2	Excellent	English

Referees

#	Contact	Referee

1	prsmgr@bath.ac.uk	Dr. Michael G. Rowan BSc PhD – PhD supervisor, University of Bath, UK
2	prsisb@bath.ac.uk	Dr. Ian S. Blagbrough BSc PhD – PhD supervisor, University of Bath, UK

Personal Information

Name	Ashraf M. A. Qasem			
Place and Date of Birth	Zarqa, Jordan	19/05/1994		
Nationality	Jordanian			
Marital Status	Married			
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