

Hana M. Sawan

Assistant professor; Pharmaceutical Microbiology; Zarqa University

Pharmacy, Bsc, PhD

Doctorate degree in Pharmaceutical Microbiology

Registered Pharmacist in Jordan.

🌐 Zarqa, Jordan

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📅 Jordanian, Date of Birth: 11th, Apr. 1988

EDUCATION

- **Doctoral Degree in Pharmaceutical Microbiology**, Division of Pharmacy & Optometry, School of Health Sciences, Manchester, UK 2014 – 2018. Advisor: Professor Andrew McBain
 - **Bachelor's Degree in Pharmacy**, Jordan University of Science and Technology, Jordan, 2006 – 2011
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RESEARCH EXPERIENCE

University of Manchester (United Kingdom) 2014-2018

- PhD student in Pharmaceutical Microbiology laboratory.

Zarqa University (Jordan) 2012-2014

- Research assistant and teaching assistant.
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PROFESSIONAL AND ACADEMIC SKILLS:

✓ **Experimental Skills:**

- Bacterial biofilm formation and inhibition assays, anti-quorum sensing screening, *Galleria mellonella* Infection Model.
- Antimicrobial screening, susceptibility and discovery techniques.
- Cell culture.
- Chromatography: TLC, Size-exclusion HPLC, ion exchange HPLC
- Molecular techniques: DNA extraction, gel electrophoresis (SDS-PAGE), PCR
- Others: Handling different types of microscopes (including Confocal laser scanning microscopy)

✓ **Teaching experience (courses):**

- Basic microbiology and immunology
 - Pharmaceutical microbiology and immunology
 - Selected topics in microbiology
 - Pharmaceutical Microbiology lab
 - Advanced research methodologies
 - Advanced pharmaceutical microbiology (MSc course)
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CONFERENCES AND TRAINING COURSES:

- Poster Presentation at The University of Manchester postgraduate conference "The Inhibition of Bacterial Virulence and Biofilm Formation by Microbiome Isolates", Manchester, UK 2015
 - Poster Presentation at The American Society for Microbiology "Assessing the anti-virulence effects of bacteria isolated from the human microbiome and soil" (ASM Microbe 2018, Atlanta, GA, USA) 2018
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AWARDS AND SCHOLARSHIPS

- Zarqa University PhD scholarship (150 000 £)
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LANGAUGES

- **Arabic:** Native **English:** Excellent
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PROFESSIONAL MEMBERSHIPS

- Jordanian Pharmaceutical Association
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PUBLICATIONS

- 1) **Sawan HM**, Al Omari SM, Al Bahar F, Karasneh R (2022) **Assessment of Jordanian health care professionals' perception towards new COVID-19 variants of concern**. PLoS ONE 17(11): e0265797. <https://doi.org/10.1371/journal.pone.0265797>.
 - 2) Noor A. Swasa, Salwa I. Eltawaty, Fawzia A. wahra, **Hana M. Sawan**, Raja M.Moman. **Acute conjunctivitis - antibiotic susceptibility and resistance to different antibiotics in Zawyat Al-dahmani Eye Hospital, Tripoli, Libya** (conference paper, Libyan Women Conference for Modern Studies 2021 (LWCRS-2021)).
 - 3) A.M. Zueter, **H.M. Sawan**, A. Zaiter, A. Harun. **Current protocols in laboratory diagnosis, genotyping, and treatment of *Burkholderia pseudomallei***. Clin. Microbiol. Newsl., 44 (3) (2022), pp. 23-31, 10.1016/j.clinmicnews.2022.01.003.
 - 4) Ayman Daif allah Ismail Alsheikh, **Hana M. Sawan**, Shatha M. Al omari. Antibiotic susceptibility of bacteria recovered from university libraries in Jordan, Malaysian Journal of Microbiology, Vol 18(6) 2022, pp. 640-651.
 - 5) **Hana M. Sawan**, Andrew McBain, Ruth Ledder, Sally Freeman. **The Quest for Inhibitors of Bacterial Virulence: Exploring the Metabolic Potential in Bacteria from the Human Microbiome and the General Environment** (2018, PhD thesis).
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REFERENCES

- **AbdelRahman Zueter**, research collaborator, Assistant Professor of Medical Microbiology & Parasitology, Faculty of Applied Health Sciences, Hashemite University, Jordan. abdelr@hu.edu.jo
- **Andrew McBain**, Principal investigator and Doctoral thesis advisor – UoM, UK. andrew.mcbain@manchester.ac.uk
- **Ruth Ledder**, Thesis Co-supervisor, UoM, UK. ruth.ledder@manchester.ac.uk