

## **Ahlam Wajeih Jamil Haj Hasan**

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### **Profile**

I am currently working as an assistant professor at Jordan University of Science and Technology. I hold an undergraduate degree in Pharm.D., and a M.Sc. degree in Analytical Chemistry. I have earned my PhD degree in Phytochemistry and Pharmacognosy from the University of Aberdeen, United Kingdom, under the supervision of Professor Marcel Jaspars.

### **Education**

**PhD degree in Pharmacognosy and Phytochemistry**, September 2024.

Chemistry Department, The School of Natural and Computing Sciences, University of Aberdeen, Aberdeen, United Kingdom.

Dissertation: "Investigation of Microbial Natural Products from Extreme Environments and Computational Approaches Towards Antimicrobial Drug Discovery".

**M.Sc. degree in Pharmacognosy and Phytochemistry** with Distinction, September 2020.

Chemistry Department, The School of Natural and Computing Sciences, University of Aberdeen, Aberdeen, United Kingdom.

Thesis: "Structure Determination of Natural Products by Spectroscopic Techniques".

**Degree of Doctor of Pharmacy (PharmD)**, June 2012.

Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan.

Average: 90.7%. (Excellent)

Rank : First. Ranked first among 76 graduating senior PharmDs in the class of 2012.

### **Work experience**

Assistant professor at the Department of Medicinal Chemistry and Pharmacognosy/ Faculty of Pharmacy/ Jordan University of Science and Technology (2024 – present).

Clinical pharmacist at King Abdulla University Hospital (2015 – 2019).

Clinical preceptor at Internal Medicine Rotation/ Faculty of Pharmacy/ Jordan University of Science and Technology (2013 – 2019).

Clinical preceptor at Drug Information Center/ Faculty of Pharmacy/ Jordan university of Science and Technology (2012 – 2013).

## Publications

Haj Hasan, A.; Preet, G.; Astakala, R.V.; Al-Adilah, H.; Oluwabusola, E.T.; Ebel, R.; Jaspars, M. Antibacterial activity of natural flavones against bovine mastitis pathogens: in vitro, SAR analysis, and computational study. *In Silico Pharmacol.* 2024. <https://doi.org/10.1007/s40203-024-00253-w>

Astakala, R.V.; Preet, G.; Haj Hasan, A.; Desai, R.; Asenjo, J.A.; Andrews, B.; Harrison, W.T.A.; Ebel, R.; Jaspars, M. 11-Hydroxy-7-Methoxy-2,8-Dimethyltetracene-5,12-Dione. *Molbank.* 2024, M1822. <https://doi.org/10.3390/M1822>

Preet, G.; Haj Hasan, A.; Ramlagan, P.; Fawdar, S.; Boulle, F.; Jaspars, M. Anti-Neurodegenerating Activity: Structure–Activity Relationship Analysis of Flavonoids. *Molecules* 2023, 28, 7188. <https://doi.org/10.3390/molecules28207188>

Haj Hasan, A.; Preet, G.; Milne, B.F.; Ebel, R.; Jaspars, M. Arabinofuranosyl Thymine Derivatives—Potential Candidates against Cowpox Virus: A Computational Screening Study. *Int. J. Mol. Sci.* 2023, 24, 1751. <https://doi.org/10.3390/ijms24021751>

Preet, G.; Astakala, R.V.; Gomez-Banderas, J.; Rajakulendran, J.E.; Hasan, A.H.; Ebel, R.; Jaspars, M. Virtual Screening of a Library of Naturally Occurring Anthraquinones for Potential Anti-Fouling Agents. *Molecules* 2023, 28, 995. <https://doi.org/10.3390/molecules28030995>

## Conferences and workshops

Attending the Computational Mass Spectrometry Workshop at University of Aberdeen (19 – 21 June 2024).

Participation in University of Aberdeen 2023 Chemistry PGR symposium (16 June 2023).  
Attending the Chemistry and Biology of natural products symposium XV in Edinburgh (30 June 2022).

Participation in University of Aberdeen 2022 Chemistry PGR symposium (10 June 2022).

Attending 16s sequencing workshop at University of Aberdeen (17 March 2022).

Taking the course “Introduction to Tutoring/Demonstrating for PhD Students” at University of Aberdeen (27 January 2022).

Attending the “Antibiotics” virtual meeting at University of Plymouth (17 December 2021).

Attending Marine Biodiscovery Center (MBC) training workshop (MzMine/GNPS/WinSCP/Cytoscape) at University of Aberdeen (11 November 2021)

Attending Marine Biodiscovery Centre training workshop (LC–MS data analysis using the Bruker software) at University of Aberdeen (28 October 2021).

Attending GRC connects: Natural Products and Bioactive Compounds (03 August 2021).

Participation in the 14<sup>th</sup> Jordanian Pharmacist Conference: Modern Challenges of Pharmacy Profession (26 – 28 April 2012).

Attending the 5<sup>th</sup> conference on scientific research in Jordan (19 November 2011)

Presenting a lecture about warfarin at the first conference for students of pharmacy faculties “Future Pharmacists.....Reality and Ambition” at the university of Jordan (07 May 2011)

Attending the first conference for students of Faculty of Pharmacy at Jordan university of science and technology: “Clinical pharmacy and good pharmacy practice” (21 November 2010).

Participation in tournament of building the personality through four hours training sections at Jordanian Pharmacist Association (16 January 2010).

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### **Professional Organization and Committee**

Membership at Jordanian Pharmaceutical Association (June 2012- present)

### **Volunteer Activities**

Volunteered to organize and participate a pharmacy tent “For optimal pharmaceutical care, consult your clinical pharmacist” that included different stations such as counseling, smoking cessation, and herbal medicine (20 March 2012).

One of the founders of the campaign (Pharm.D, towards the optimal pharmaceutical care) (April 2011).

Participation in many voluntary works for the sake of helping society’s health.

### **Honors and Awards**

Award for the best presentaion at Chemistry PGR symposium at University of Aberdeen Aberdeen, United Kingdom (2023).

Award for the best flash presentaion at Chemistry PGR symposium at University of Aberdeen, Aberdeen, United Kingdom (2022).

Certificate of Appreciation for educational excellence from Jordan University of Science and Technology, Irbid, Jordan (2012).

## References

### **Professor Marcel Jaspars**

Marine Biodiscovery Centre/ Department of Chemistry/ University of Aberdeen, Meston Building,  
Meston Walk, Old Aberdeen, AB24 3UE, Scotland, UK.

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### **Pofessor Rainer Ebel**

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