

RANA M. QASAYMEH, Ph.D.

Jordan University of Science & Technology
Faculty of Pharmacy
Department of Medicinal Chemistry and Pharmacognosy
22110, Irbid-Jordan
E-mail:
ranaqasaymeh@just.edu.jo

ABOUT ME

I am currently working as an assistant professor at the Department of Medicinal Chemistry and Pharmacognosy/ Faculty of Pharmacy/ JUST. I earned the degree of Doctor of Philosophy for research in the department of Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde, UK in OCT 2021 with a specialization in Natural Products Chemistry/ Phytochemistry. I am fascinated by the study of bioactive compounds from natural sources as I have a strong belief that nature is still an untapped reservoir for novel structures and lead compounds.

EDUCATION

2017-2021:

PhD in Natural Products Chemistry/ Phytochemistry;
Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde, UK
Thesis title: Phytochemical, Biological, and Molecular Docking Studies on *Fraxinus excelsior*, *Stachys arabica*, *Pelargonium sidoides*, and *Pelargonium reniforme*.

2017-2021:

The Postgraduate Certificate in Researcher Professional Development (PG Cert RPD); Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde, UK

2000-2003:

M.Sc. in Medicinal Chemistry and Pharmacognosy,
Faculty of Pharmacy, Jordan University of Science & Technology, Irbid, Jordan.
Thesis title: Isolation, characterization, and Biological Evaluation of Active components of *Colchicum stevenii* (Liliaceae).

1996-2000:

B.Sc. in Pharmacy, Faculty of Pharmacy, Jordan University of Science & Technology, Irbid, Jordan.

PROFESSIONAL EXPERIENCE

2/ 2022 – now:

Assistant Professor of Natural Products Chemistry/ Drug Discovery from Natural Sources, Department of Medicinal Chemistry and Pharmacognosy/ Jordan University of Science & Technology/ Faculty of Pharmacy

3/2005 – 10/2017:

Full time lecturer; Jordan University of Science & Technology/ Faculty of Pharmacy

10/2003 - 3/2005:

Part-time lecturer; Jordan University of Science & Technology/ Faculty of Pharmacy

10/2003 - 3/2005:

Teacher assistant and Research work.

RESEARCH INTERESTS

- Drug discovery from natural sources mainly from plants.
- Isolation and structure elucidation of natural products using chromatography and NMR techniques.
- Ethnopharmacological investigation of traditional plants remedies.
- Evaluation of the cytotoxicity and Immunomodulatory activities of the medicinal plants extracts and isolated phytochemicals.
- Investigation of potential Interactions between herbs and conventional drugs.

PUBLICATIONS

- 1) Rana M Qasaymeh, Dino Rotondo, Veronique Seidel. Phytochemical study and immunomodulatory activity of *Fraxinus excelsior* L. *Journal of Pharmacy and Pharmacology*. ; Vol. 75, No. 1. pp. 117-128. 2023
- 2) Oscar Shirlaw, Zara Billah, Baraa Attar, Lisa Hughes, Rana M Qasaymeh, Veronique Seidel, Georgios Efthimiou. Antibiofilm activity of Heather and Manuka honeys and antivirulence potential of some of their constituents on the DsbA1 enzyme of *Pseudomonas aeruginosa*. *Antibiotics*. Dec 15;9(12):911, 2020
- 3) Rana M Qasaymeh, Dino Rotondo, Carel B Oosthuizen, Namrita Lall, Veronique Seidel. Predictive Binding Affinity of Plant-Derived Natural Products Towards the Protein Kinase G Enzyme of *Mycobacterium tuberculosis* (MtPknG). *Plants (Basel)*.8, 477, 2019
- 4) Ahmad A Gharaibeh, Ala'a Al Serini, Rana M Qasaymeh, Amani S Ma'ayah, Tamam El-Elimat, Feras Q Alali, " Liquid chromatography-mass spectroscopy and liquid chromatography-ultraviolet/visible photodiode array analysis of selected colchicum species.," *Z. Naturforsch., C, J. Biosci.*, vol., no., pp. 451-460, 2012.
- 5) Feras Q Alali, Khaled Tawah, Tamam El-Elimat, Rana Qasaymeh, Chen Li, Jason Burgess, Yuka Nakanishi, David Kroll, Mamsukh Wani, Nicholas H Oberlies, "Phytochemical studies and cytotoxicity evaluations of *Colchicum tunicatum* Feinbr and *Colchicum hierosolymitanum* Feinbr (Colchicaceae): two native Jordanian meadow saffron.," *Nat. Prod. Res.*, vol. 20, no. 6, pp. 558-566, 2006.

6) Mohsen S Al-Mahmoud, Feras Q Alali, Khaled Tawaha, Rana M Qasaymeh, "Phytochemical study and cytotoxicity evaluation of *Colchicum stevenii* Kunth (Colchicaceae): a Jordanian meadow saffron.," Nat. Prod. Res., vol. 20, no. 2, pp. 153-160, 2006.

7) Feras Alali, Khaled Tawaha, Rana M Qasaymeh, "Determination of colchicine in *Colchicum steveni* and *C. hierosolymitanum* (Colchicaceae): comparison between two analytical methods.," Phytochem Anal, vol. 15, no. 1, pp. 27-29, 2004.

Professional Membership

- Member of Jordanian Pharmaceutical Association (2002-present)
- Member of Phytochemical Society of Europe (PSE) (2018-present)

WORKSHOPS , CONFERENCES & SCIENTIFIC MEETINGS ATTENDED

- The 5th International Conference of the Faculty of Pharmacy: "Multidisciplinary Pharmaceutical Research", June 7th - 8th, 2023, Irbid, Jordan (Organizer, Technical Committee).
- The 2nd International Conference on Herbal & Traditional Medicine, Dubai (UAE), 2019. Poster presentation.
- Phytochemical Society of Europe's Young Scientists' Meeting on Advances in Phytochemical Analysis (Trends in Natural Products Research), Liverpool (UK) 2018. Presented a Poster and a Best Poster Prize was awarded.
- " Research Integrity ", Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, 23-24/9/ 2023.
- " E-learning media/website creating and hosting on JUST server ", Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, 13-15/10/ 2022
- " Designing Effective E-Learning ", Academic Development and Quality Assurance Center, Jordan University of Science and Technology, Irbid, 17-18/8/ 2022.

COMPUTER SKILLS

- Experience in using MS Office applications.
- Excellent knowledge in the scientific search engine.
- Excellent experience in data processing and analysis using the following software's: Chemdraw, MNOVA, GraphPad Prism, Drug Discovery Studio, Autodock Vina, EndNote.

LANGUAGES

- Arabic: Mother language.
- English: Fluent in speaking and writing.

TEACHING

GRADUATE COURSE:

1. ORGANIC STRUCTURE DETERMINATION

UNDERGRADUATE COURSE:

1. Chemistry of Natural Products (for Pharm D students)
2. INSTRUMENTAL ANALYSIS AND DRUG QUALITY CONTROL LAB
3. MEDICINAL CHEMISTRY LAB
4. MEDICINAL CHEMISTRY LAB (3)
5. PHARMACEUTICAL ANALYTICAL CHEMISTRY & INSTRUMENTAL ANALYSIS LAB
6. PHARMACEUTICAL ANALYTICAL CHEMISTRY LAB (1)
7. PHARMACEUTICAL ANALYTICAL-CHEMISTRY AND QUALITY CONTROL LAB
8. PHARMACEUTICAL INSTRUMENTAL ANALYSIS LAB
9. PHARMACEUTICAL ORGANIC CHEMISTRY LAB (2)
10. PHARMACOGNOSY AND PHYTOCHEMISTRY
11. PHARMACOGNOSY AND PHYTOCHEMISTRY LABORATORY
12. PHARMACOGNOSY LAB
13. Phytotherapy (for Pharm D students)
14. SELECTED TOPICS (1)

COMMITTEE ASSIGNMENTS

- Faculty Social Activities Committee, 2022-2023: Chair, JUST
- Faculty Safety Committee, 2022-2023: Member, JUST
- Technical Committee; The 5th International Conference of the Faculty of Pharmacy, 2022-2023, Member, JUST
- Faculty Continuing Pharmaceutical Education Committee, 2022-2023: Member, JUST
- Departmental Scientific Research Committee, 2022-2023: Member, JUST
- Faculty Social Activities Committee, 2021-2022: Member, JUST

REFERENCES

1. Dr Veronique Seidel
Senior Lecturer in Pharmacognosy, Natural Products Drug Discovery Research Group. Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde.
Email: veronique.seidel@strath.ac.uk
2. Dr Feras Q. Alali.
Professor and Associate Vice President,
Qatar University. Qatar
E-mail: feras.alali@qu.edu.qa.
3. Dr Tamam M. El-Elimat,
Professor, Department of Medicinal Chemistry and Pharmacognosy, Faculty of Pharmacy, Jordan
University of Science and Technology, Irbid, Jordan.
E-mail: telimat@just.edu.jo