

Samer Y. Alqaraleh

Contact Information

Faculty Allied Medical Sciences, Mutah University

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Research Interests

- Interested in Green synthesis of nanoparticles, chemical and physical characterization, bioactivity potential, as anticancer, antioxidant, antimicrobial, and anti-inflammatory.
- Interest in Functional Nutrition to modulate the gut microbiota, and their potential as prophylactic to some specific diseases, Such as (aging, Cancer, Alzheimer, and Diabetic).

Education

- **Ph.D.** Biological Science/ (Nanobiotechnology) Microbiology and Biochemistry).
University of Jordan (2017- 2022).
Thesis “Green synthesis, structural characterization, and potential bioactivity of Selenium nanoparticles from aqueous extract of *Moringa peregrina* leaves”.
 - **GPA:** 3.8 out of 4.
- **M.Sc.** Biological Sciences/ Biotechnology (Microbiology and Biochemistry). Mut’ah University, Jordan (2012–2014).
 - **Grade:** 91%. Student Ranking: 1st**Thesis** “A Comparative Study of the Antioxidant and Antibacterial Activities of Methanolic Extracts of some plants selected from Karak Region”.
- **B.Sc.** Nutrition & Food Technology. Mosul University, Iraq, (1993-1997).
 - **Grade:** 75.18%

Academic Experience

- **Dean Assistant of Faculty Allied Medical Sciences.** 1 Oct 2022- Present.
- **Researcher and Part-time lecturer.** Aug 2021 – Present. Faculty of Medicine, Mut’ah University.

Responsibility:

- **Teaching Immunology, Microbiology and Biochemistry courses for 2nd years**
 - Member of the Accreditation and Quality Assurance Committee.
 - Doing scientific research related to common diseases.
 - Leader of a research team of medical students.
 - Finding extramural sources of funding projects with a student team.
 - Development of research laboratories.
 - Holding periodic meetings with students of the Faculty of Medicine at Mutah University to create innovative ideas in the field of scientific research.
- **Researcher and teaching Assistant. Faculty of Pharmacy, Mut'ah University. Aug 2019- Aug 2021.**
 - Teaching Assistant of Biotechnology, Biochemistry, and Microbiology courses.
 - Member of the Accreditation and Quality Assurance Committee.
- **Head of the Environment and Food Quality Research Centre, (Mar 2004- Aug 2019). Mut'ah University.**

Responsibility:

- Stablished Food Quality office at Mut'ah University cooperative with **Erasmus Plus**.
- Presenting at least 15 workshops to the local schools regarding proper nutrition.
- Contributed to publishing 5 articles related to Environment and agriculture applications.
- Undertaking undergraduate teaching courses during Bsc. and Msc.: General Microbiology, Biochemistry, Biotechnology, Food Microbiology, and Food Analysis.
- Developing, teaching, and maintaining curriculum components of courses Manual.

Courses Taken:

- Chemistry of proteins and enzymes.
- Muscles biology.
- Clinical Biochemistry.
- Bioenergetics.
- Molecular Physiology.
- Biotechnology.
- Microbial Physiology.
- Microbial Biotechnology.
- Molecular genetics.

Grants

- Financial Grant from the Jordanian Enterprise development Projects-Ministry of Industry \$ 21400, for production of Mushroom, Karak 2009.

Awards, Scholarships and Fellowships

- Aug. 1993 Bachelor's Degree Higher Education Scholarship, Mosul University, Iraq, 1993.

➤ Aug 2016

PhD. Scholarship (Biological Sciences).
Stipendium Hungaricum scholarship, Hungary, Pecs University

Workshops and activities

- “Fostering Academia-Industry Collaboration 1” by Erasmus+ Italy. [28 Sep – 3 Oct 2019].
- “Fostering Academia-Industry Collaboration 2” by Erasmus+ Italy. [28 Jan – 3 Feb 2018].
- Participation in the Building Capacity of Personnel in the Jordanian Olive Industry. Funded by European Commission, Spain. [11-18 Mar2017].
- Internal Auditing Certification for implementing ISO/IEC 17025:2005 in laboratories. USAID, Jordan. [4- 6 Dec 2011].
- Course training of implementation and documentation ISO/IEC/17025:2005 in laboratories, USAID, Jordan. [25 – 29 Sep 2011].
- Academic work Certification from Mut’ah University. 2022.
- A training course for employees of the Kasih Foodstuff Company on biological hazards, Amman, 15-25 Apr 2022.
- Member of the medicinal and herbal plants network in Association of Agricultural Research Institutions in the Near East and North Africa (AARINENA), 2019- Present.
- Member of the Accreditation and Quality Assurance Committee in the Faculties of Medicine, and Hamay Mut’ah University. 2021.
- Member of the Laboratories Tender Bidding Committee, Mut’ah University. Member in karak Health Committee- Al raba region, 2019-2021.
- Participation in Eighth Scientific Agriculture Conference, 15-17 Oct 2018.
- Attending in JNB webinar - Mark Davis - Polymeric Nanoparticles: A Cornucopia of Therapeutics from Small Molecules to Nucleic Acid, [24 Feb. 2022].

Publications (Total citations= 63, h-index= 5)

- 10 Articles were published in International Journals (Q1, Q2, Q3).
- 4 Articles Submitted.

1. **Samer Y. Al-Qaraleh**, Wael A. Al-Zereini, Sawsan A. Oran, Ahmad Z.Al-Sarayreh, and Sa'ed M.Al-Dalain. (2022), Evaluation of the antioxidant activities of green synthesized selenium nanoparticles and their conjugated polyethylene glycol (PEG) form *in vivo*. *OpenNano Journal*. <https://doi.org/10.1016/j.onano.2022.100109>. (Q1)
2. **Samer Alqaraleh**, Wael Al-zereini, and Sawsan Oran. (2022), Phyto-decoration of selenium nanoparticles using *Moringa peregrina* (Forssk.) Fiori aqueous extract: chemical characterization

- and bioactivity evaluation. *Biointerface Research in Applied Chemistry*. 13, (2): 112. <https://doi.org/10.33263/BRIAC132.112>. (Q3, IF: 1.949).
3. Ezz Al-Dein M. Al-Ramamneh, Ayoup M. Ghrair, Ashok K. Shakya, Khalid Y. Alsharafa, Khalid Al-Ismail, **Samer Y. Al-Qaraleh**, Jacek Mojski, and Rajashri R. Naik. (2022). Efficacy of *Sterculia diversifolia* Leaves Extract: Volatile Compounds, Antioxidant and Anti-Inflammatory Activity, and Green Synthesis of Potential Antibacterial Silver Nanoparticles. *Plants*. 11: 2492. <https://doi.org/10.3390/plants11192492>. (Q1, IF:4.658).
 4. Abdalrahim Alahmad, Wael A. Al-Zereini, Tahani J. Hijazin, Osama Y. Al-Madanat, Ibrahim Alghoraibi, Omar Al-Qaralleh, **Samer Al-Qaraleh**, Armin Feldhoff, Johanna-Gabriela Walter, Thomas Scheper. (2022), Green synthesis of silver nanoparticles using *Hypericum perforatum* L. aqueous extract with the evaluation of its antibacterial activity against clinical and food pathogens. *Pharmaceutics* 2022, 14, 1104. <https://doi.org/10.3390/pharmaceutics14051104>. (Q1, IF: 6.734).
 5. Ahmad Z Al-Sarayreh, Khaled M Khleifat, Sa'ed M Al-Dalain, Yousef M Al-Sarairah, Yaseen T Al- Qaisi, Ibrahim I Al-Farrayeh, **Samer Y AL-Qaraleh**. (2022), *Globularia arabica* methanolic leaf extract has higher efficacy on burn wound healing in diabetic rats compared to *Malva slyvestries* methanolic leaf extract. *Journal of Burn Care and research*. <https://doi.org/10.1093/jbcr/irac089>. (Q1, IF: 2.2).
 6. **Samer Y. Alqaraleh** and Khaled tarawneh. (2016), Antioxidant Activity of Methanolic Extracts of *Aloysia triphylla*, *Ceratonia siliqua*, *Cupressus sempervirens* and *Punica granatum* Selected from Karak Region-Jordan. *American-Eurasian Journal of Agriculture & Environment Sciences* 16 (3): 479-486. DOI: 10.5829/idosi.ajeaes.2016.16.3.12847. (IF: 0.12).
 7. Nofal S. Al-Ameiri Muwaffaq R. Karajeh, and **Samer Y. Qaraleh**. (2015), Molds Associated with olive fruits infested with olive fruit fly, *Bactrocera oleae* and their effects on some oil quality traits. *Jordan Journal of Biological Sciences*. 8 (3): 217 – 220.
 8. Osama Mohawesh, Ammar Albalasmeh, Husam Al-Hamaiedeh, **Samer Qaraleh**, Omar Maaitah, Abdelraheem Bawalize, Doaa Almajali. (2020), Controlled Land Application of Olive Mill Wastewater: Enhance Soil Indices and Barley Growth Performance in Arid Environments. *Journal of Water, Air, & Soil Pollution*. DOI: 10.1007/11270-020-04612-z. (Q2, IF: 1.9,).
 9. Osama Mohawesh, Husam Al-Hamaiedeh, Ammar A. Albalasmeh, **Samer Qaraleh**, Maisaa Haddadin. (2019), Effect of olive mill wastewater (OMW) application on soil properties and wheat growth performance under rain-fed conditions. *Water Air and Soil Pollution* 230(7) DOI: 10.1007/s11270-019-4208-8. (Q2, IF: 1.9,).
 10. Osama Mohawesh, Timothy Coolong, Mohammad Aliedeh, **Samer Qaraleh**. (2018), Greenhouse evaluation of biochar to enhance soil properties and plant growth performance under arid environment. *Bulgarian Journal of Agricultural Science* 24(6):10-12. (Q3, IF: 0.512).
 11. **S.Y. Al-Qaraleh**, S.A. Oran, W.A. Al-Zereini, A.I. Al-Qtaitat, A. Alahmad, Improved anti-breast cancer activity of green synthesized selenium nanoparticles and induction of apoptosis by conjugation of the nanoparticles with polyethylene glycol (PEG), *Nanotechnology*. Rev. (Submitted) (Q1).

12. Utilizing Sweet Lupin as a nutritional supplement and its therapeutic properties to create chicken burgers that are healthy. **Submitted** to Current Research in Nutrition and Food Science Journal (Q3).
13. Protective effect of Spirulina platensis on dibutyl phthalate (DBP)-induced Pulmonary alveolar changes in adult male albino rats. **Submitted to Medicina.**

Skills

- Proficient in MS Office applications including Word, Excel, and PowerPoint.
- Enthusiastic to learn and explore new topics.
- Decision-making.
- Strong communication skills.
- Data analysis (SPSS program).
- Analysis data by SEM, FTIR, XRD, UV-Spectra, and EDX instruments.
- Familiar with Flame and graphite Atomic Absorption, Spectrophotometer, fibers, fat, and protein instruments, Microwave digestion system, PCR, DNA isolation, and ELISA.
- Organized tasks using Google Calendar

References

1. Osama Eisa Mohawesh, Ph.D. Full Professor. Water Resources and Environmental Engineering. Dean, Deanship of Scientific Research. Mut'ah University, P. O. Pox (7), Karak 61710, Jordan. Mobile: +962797408855. Email: osama.mohawesh@gmail.com.
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2. Wael A. Al-Zereini, Associate Professor. Microbial Biotechnology. Department of Biology, Faculty of Science, Mut'ah University P.O.BOX 7, Mutah 61710, Al-Karak – Jordan. Mobile: +962795556749 Email: wzereini@mutah.edu.jo.
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3. Yousef M. Al-saireh, Associate Professor in Cancer pharmacology. Department of Pharmacology, Faculty of Medicine, Mut'ah University, Jordan. Mobile: +962 799172658 Email: Yousef.sar@Mutah.edu.jo
4. Nesrin R. Mwafi, Associate Professor. Department of Biochemistry and Molecular Biology Faculty of Medicine, Mutah University, P.O.Box (7), Karak, Jordan Mobile: 00962 796777785 Email: drnesrin@mutah.edu.jo
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