

Curriculum Vitae

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PERSONAL DETAILS

Name: Haitham Nayef Qaralleh
Degree: PhD- Biomedical sciences
Academic rank: Associated Professor
Nationality: Jordanian
Place & Date of Birth: Karak. 25th, December, 1980
Marital Status: Married
Address: Mutah – Alkarak - Jordan.
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EDUCATION

1997- 1998 Secondary School, Karak, Jordan
1998- 2002 Biology Dept. Faculty of Science, Mu'tah University, Jordan
2003- 2006 Biology Dept. Faculty of Science, Mu'tah University, Jordan
2007- 2012 Department of biomedical sciences, faculty of science, International Islamic University Malaysia, Malaysia.

DEGREE

2002 B. Sc. Biology, Faculty of Sciences, Mu'tah University, Jordan
2006 M. Sc. Biology, Faculty of Sciences, Mu'tah University, Jordan
2012 PhD Biomedical science, International Islamic University Malaysia (IIUM).

RESEARCH INTEREST

M.Sc. thesis Effect of Herbal Plants and its composition on the Growth of *Pseudomonas aeruginosa*
PhD thesis Antimicrobial activities of selected sponges and corals of coastal waters of Malaysia
Field of Specialization Biomedical, Natural Product, Microbiology, Microbial Physiology, Spectroscopy.
Research Interest Drug Discovery, Bioactivity Evaluation, Isolation and Characterization of Natural Products, Mode of Antimicrobial Action, effect of antimicrobial agents on cell membrane, cell wall, macromolecules synthesis and molecular level and Microbe Growth and Cultivation.

ACADEMIC RECORD

2002 - 2007 Biology Teacher, Mu'tah Secondary School, Karak , Jordan
2008 - 2009 Graduate teaching assistant (Microbiology), Faculty of science, department of biomedical science, International Islamic University Malaysia, Malaysia.
2009-2012 Part time lecturer (Microbiology for dentistry), Faculty of Dentistry, International Islamic University Malaysia, Malaysia.

Curriculum Vitae

- 2012- 2015** Assistant professor, **Faculty of Pharmacy**, Department of basic medical sciences, Al-Zaytoonah Private University of Jordan, Jordan.
- 2015-2017** Assistant professor, Head of Department (**Department of Medical Support**) Al-Karak University College, Al-Balqa Applied University, Al-Karak, Jordan.
- 2017-NOW** Associate professor, **Department of medical laboratory sciences**, Faculty of Sciences, Mu'tah University, Jordan

National Database For Researchers Number 3924

Courses Taught

General Microbiology	0308242
General Microbiology Practical	0308243
Diagnostic Microbiology	0308432
Diagnostic Microbiology Practical	0308433
Diagnostic Parasitology	0308341
Diagnostic Parasitology practical	0308342
Diagnostic Mycology	0308436

SUPERVISION: Master students (Co-supervisor)

- 2018/2019 Fadia Yousef Alzedaneen (2019). Synergistic antimicrobial activity of *Centaurea* sp. And nanoparticles.
- 2018/2019 Ibtihal Nayel Alrawashdeh (2019). Antibacterial activity of nanoparticles against enteric bacterial human pathogens: a synergistic effect with some of known folk medicinal plants.
- 2019/2020 Mustafa Khaled Flaifel (2020). Antibacterial activity of *Azadirachta indica* (Neem) Leaf.
- 2020/2021 Esra'a Mohammad Alhraishat (2021) In Vivo Antidiabetic Activity of *Ephedra foeminea* in Rat
- 2021/2022 Ruba Adehayat (2022) Antibiofilm and quorum sensing inhibitory effect of *Tilia cordata* extract against *Pseudomonas aeruginosa*

WORKSHOPS

Workshop	Title	Place and date
TD-04-030 biorisk management curriculum development	US Defense Threat Reduction Agency and in Connection with Leidos, Inc. And the University of Connecticut	Amman, Jordan 6-10 feb 2022

Curriculum Vitae

FUNDS

Source	Title	
Mutah University	Attenuation of quorum sensing controlled virulence factors of <i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> by <i>Nepeta curviflora</i> : isolation and elucidation of the active components	2017-2022
Mutah University	Anticancer and antibacterial activities of Morin hydrate, kaempferol, vitexin and rosmarinic acid: synergistic effect and mode of action study	2020-Now

AWARDS

Award	source
One of the most cited authors	Deanship of scientific research/ Mutah university 2020

CONFERENCES

- 2009** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Antibacterial activities of sponge and coral species collected from Malaysian sea water. Programme and abstract book: 23rd Malaysian Society of Pharmacology and Physiology Scientific Meeting. 12-13 May 2009. Kuala Lumpur. 92
- 2009** Haitham N Qaralleh, Khaled M Khleifat, Khaled A. Tarawneh, Muayad M Abboud, Syed Z. Idid, Deny Susanti, Osama Y Althunibat. Chemical composition and antibacterial activity of essential oil of *Thymus capitatus* from Jordan. Programme and abstract book: 23rd Malaysian Society of Pharmacology and Physiology Scientific Meeting. 12-13 May 2009. Kuala Lumpur. 92
- 2009** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Antimicrobial Activities of Marine Sponge using bioassay-direct fractionation and contact Bioautography technique. Programme and abstract book: Bandung International Conference on Medicinal Chemistry. 6-8 August 2009. Bandung, Indonesia. 186
- 2010** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Potential antibacterial compounds from Malaysian sponges *Neopetrosia exigua*. Programme and abstract book: 3rd International Conference for young Chemistry. 23rd-25th June 2010. Penang.
- 2010** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Isolation of antibacterial compounds from dichloromethane fraction of Malaysian sponges *Neopetrosia exigua*. Programme and abstract book. 3rd International Conference on Advancement in Science and Technology. 26th -29th November, 2010. Kuantan

- 2011** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Antifungal and Antibacterial Activities of Four Malaysian Sponge Species (Petrosiidae). IIUM Research, Invention and Innovation Exhibition, 2011, Kuala-Lumpur, Malaysia (Golden prize)
- 2012** Haitham N Qaralleh, Syed Z. Idid, Shabudin Saad, Deny Susanti. Mode of Action of RnD1c: An Antimicrobial Bisulfat Avarol isolated from the Marine Sponge *Neopetrosia exigua*. ZTIPC, 2012, Amman, Jordan.

JOURNAL PAPERS

- 2009** Qaralleh, H. N., Abboud, M. M., Khleifat, K. M., Tarawneh, K. A., & Althunibat, O. Y. (2009). Antibacterial activity in vitro of *Thymus capitatus* from Jordan. *Pakistan Journal of Pharmaceutical Sciences*, 22(3), 247-251.
- 2010** Althunibat, O. Y., Al-Mustafa, A. H., Tarawneh, K., Khleifat, K. M., Ridzwan, B. H., & Qaralleh, H. N. (2010). Protective role of *Punica granatum* L. peel extract against oxidative damage in experimental diabetic rats. *Process Biochemistry*, 45(4), 581-585
- 2010** Qaralleh, H., Idid, S., Saad, S., Susanti, D., Taher, M. & Khleifat, K. (2010). Antifungal and Antibacterial Activities of Four Malaysian Sponge Species (Petrosiidae). *Journal De Mycologie Médicale*, 20(4), 315-320
- 2011** Qaralleh, H., Idid, S., Saad, S., Susanti, D., Taher, M. & Mustafa, B. (2011). Documentation of Three Sponge Species Belong to the Family of Petrosiidae. *Australian Journal of Basic and Applied Sciences*, 5(12), 1047-1053
- 2011** Saad, S., Taher, M., Susanti, D., Qaralleh, H., & Rahim, N. A. B. A. (2011). Antimicrobial activity of mangrove plant (*Lumnitzera littorea*). *Asian Pacific journal of tropical medicine*, 4(7), 523-525
- 2011** Saad, S., Taher, M., Susanti, D., Qaralleh, H., & Awang, A. F. I. (2011). In vitro antimicrobial activity of mangrove plant *Sonneratia alba*. *Asian Pacific Journal of Tropical Biomedicine*, 427-429
- 2012** Kamazeri, T. S. M., Abd Samah O., Taher, M., Susanti, D. & Qaralleh, H. (2012). Antimicrobial activity and essential oils of *Curcuma aeruginosa*, *Curcuma manga*, and *Zingiber cassumunar* from Malaysia. *Asian Pacific journal of tropical medicine*, 412-420
- 2012** Alkhamaiseh, S. I., Taher, M., Ahmad, F., Qaralleh, H., Althunibat, O., Susanti, D. & Ichwan, S. (2012). The phytochemical content and antimicrobial activities of Malaysian *Calophyllum canum* (stem bark). *Pakistan Journal of Pharmaceutical Science* 25(3): 555-563
- 2013** Althunibat, O. Y., Ridzwan, B. H., Taher, M., Daud, J. M., Jauhari Arief Ichwan, S. and Qaralleh, H. (2013). Antioxidant and cytotoxic properties of two sea cucumbers, *Holothuria edulis* Lesson and *Stichopus Horrens* seLenkA. *Acta Biologica Hungarica* 64(1): 10–20

- 2013** Susanti, D. Awang, N., Qaralleh, H., Sheikh, H and Attoumani, N. (2013). Antimicrobial Activity and Chemical Composition of Essential Oil of Malaysian *Etilingera elatior* (Jack) R.M. Smith Flowers. *Journal of Essential Oil Bearing Plants* 16(2): 294-299
- 2013** Saad, S., Taher, M., Susanti, D., Qaralleh, H., Noorhaidi, N. & Awang, A. F. I. (2013). Antimicrobial Activity of Mangrove Plant *Acrostichum Speciosum*. *Journal of Pure and applied microbiology* 7 (Special ed. Nov. 13): 253-257.
- 2014** Qaralleh, H., Idid, S., Saad, S., Susanti, Althunibat, O. Y. & Sheikh, H (2014). Antimicrobial activity of three hard coral species from South China sea (Malaysia). *SYLAWN* 158 (4): 369-375
- 2015** Majali, I., Qaralleh, H., Idid, S., Saad, S., Susanti, D., Taher, M. & Althunibat, O. (2015). Potential antimicrobial activity of marine sponge *Neopetrosia exigua*. *Journal of basic and applied research* 1(1), 1-13
- 2015** Majali, I., Althunibat, O. and Qaralleh, H. (2015) Antimicrobial and Immunomodulatory activities of *Moringa peregrine*- MINIREVIEW. *Journal of Basic and Applied Research* 1 (2): 55-61
- 2015** Majali, I.S., Oran, S.A., Khleifat, K., Qaralleh, Q., Rayyan, W. and Althunibat, O., (2015). Assessment of the antibacterial effects of *Moringa peregrina* extracts. *African Journal of microbiology research* 9 (51): 2410-2414
- 2016** Althunibat, O.Y., Qaralleh, Q., Al-Dalin, S.Y.A., Abboud, M., Khleifat, K., Majali, I.S., Aldal'in, H.K.H., Rayyan, W.A. and Jaafraa, A. (2016). Effect of Thymol and Carvacrol, the Major Components of *Thymus capitatus* on the Growth of *Pseudomonas aeruginosa*. *Journal of Pure and Applied Microbiology* 10(1): 367-374
- 2016** Qaralleh, H. (2016). Chemical and bioactive diversities of marine sponge *Neopetrosia*. *Bangladesh J Pharmacol* 11(2): 433-452
- 2017** Al-Majali, I. S., Al-Oran, S. A., Hassuneh, M. R., Al-Qaralleh, H. N., Rayyan, W. A., Al-Thunibat, O. Y., ... & Salem, S. (2017). Immunomodulatory effect of *Moringa peregrina* leaves, ex vivo and in vivo study. *Central-European journal of immunology*, 42(3), 231.
- 2018** Abu Qatoosah, L., Mallah, TAE., Abu Rayyan, W., Abu Dayyih, W., Al-Majali, IS., Qaralleh, H., Al- Thunibat, OY., Seder, N., Bustami, M. (2018) Analytical and Comparative Study About the Impact of Lead Homeostasis on Cardiovascular Disorders in Humans. *Biomed Pharmacol J* 11 (1): 277-284
- 2018** Mustafa, B. E., Subramaniam, P. K., Mustafa, N. S., Kashmoola, M. A., Mokhtar, K. I., & Qaralleh, H. (2018). The anti-fungal effect of flax seed on oral candidiasis: Comparative In-Vitro Study. *Journal of International Dental and Medical Research*, 11(2), 580-586.

- 2018** Qaralleh, H. N. (2018). Chemical composition and antibacterial activity of Origanum ramonense essential oil on the β -lactamase and extended-spectrum β -lactamase urinary tract isolates. *Bangladesh Journal of Pharmacology*, 13(3), 280-286.
- 2019** Al-Limoun, M. O., Khleifat, K. M., Alsharafa, K. Y., Qaralleh, H. N., & Alrawashdeh, S. A. (2019). Purification and characterization of a mesophilic organic solvent tolerant lipase produced by Acinetobacter sp. K5b4. *Biocatalysis and Biotransformation*, 37(2), 139-151.
- 2019** Khleifat, K. M., Al-limoun, M. O., Alsharafa, K. Y., Qaralleh, H., & Al Tarawneh, A. A. (2019). Tendency of using different aromatic compounds as substrates by 2, 4-DNT dioxygenase expressed by pJS39 carrying the gene dntA from Burkholderia sp. strain DNT. *Bioremediation Journal*, 23(1), 22-31.
- 2019** Qaralleh, H. (2019). Thymol Rich Thymbra capitata Essential Oil Inhibits Quorum Sensing, Virulence and Biofilm Formation of Beta Lactamase Producing Pseudomonas aeruginosa. *Natural Product Sciences*, 25(2), 172-180.
- 2019** Khleifat, K. M., Matar, S. A., Jaafreh, M., Qaralleh, H., Al-limoun, M. O., & Alsharafa, K. Y. (2019). Essential Oil of Centaurea damascena Aerial Parts, Antibacterial and Synergistic Effect. *Journal of Essential Oil Bearing Plants*, 22(2), 356-367.
- 2019** Qaralleh, H., Khleifat, K. M., Al-Limoun, M. O., Alzedaneen, F. Y., & Al-Tawarah, N. (2019). Antibacterial and synergistic effect of biosynthesized silver nanoparticles using the fungi Tritirachium oryzae W5H with essential oil of Centaurea damascena to enhance conventional antibiotics activity. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 10(2), 025016.
- 2020** Al-Dalain, S. Y., Haddad, M. A., Parisi, S., Al-Tarawneh, M. A., & Qaralleh, H. (2020). Determination of Macroelements, Transition Elements, and Anionic Contents of Commercial Roasted Ground Coffee Available in Jordanian Markets. *Beverages*, 6(1), 16.
- 2020** Elsonbaty, S. M., Eltahawy, N., Al-dmour, S. M., Easa, S., & Qaralleh, H. (2020). Ionizing Radiation effect on Teucrium polium: Phytochemical Contents antioxidant and antibacterial Activity. *Arab Journal of Nuclear Sciences and Applications*, 53(2), 98-110.
- 2020** Albzeirat, M., Zulkepli, N., & Qaralleh, H. (2020). A vision to face Covid-19 pandemic and future risks through artificial intelligence. *Journal of basic and applied Research in Biomedicine*, 6(1), 15-20.
- 2020** Al-Tawarah, N. M., Qaralleh, H., Khlaifat, A. M., Nofal, M. N., Alqaraleh, M., Khleifat, K. M., ... & Al Shhab, M. A. (2020). Anticancer and Antibacterial Properties of Verthemia Iphionides Essential Oil/Silver Nanoparticles. *Biomed Pharmacol J*, 13(3), 1175-1185.

- 2020** Al-limoun, M.O., Qaralleh, H.N., Khleifat, K.M., Al-Anber, M., Al-Tarawneh, A.A., Al-sharafa, K.Y., Kailani, M.K., Zaitoun, M.A., Matar, S.A., Al-soub, T. (2020). Culture media composition and Reduction potential optimization of mycelia-free filtrate for biosynthesis of silver nanoparticles using the fungus *Tritrichum oryzae* W5H. *Current Nanoscience*. **DOI:** [10.2174/1573413715666190725111956](https://doi.org/10.2174/1573413715666190725111956)
- 2020** Qaralleh, H. A., Al-Limoun, M. O., Khlaifat, A., Khleifat, K. M., Al-Tawarah, N., Alsharafa, K. Y., & Abu-Harirah, H. A. (2021). Antibacterial and antibiofilm activities of a traditional herbal formula against respiratory infection causing bacteria. *Tropical Journal of natural products* 4 (9), 527-534
- 2021** Tarawneh, M., Al-Jaafreh, A. M., Al-Dal'in, H., Qaralleh, H., Alqaraleh, M., & Khataibeh, M. (2021). Roasted date and barley beans as an alternative's coffee drink: micronutrient and caffeine composition, antibacterial and antioxidant activities. *Systematic Reviews in Pharmacy*, 12(1), 1079-1083.
- 2021** Alqaraleh, M., Kasabri, V., Aljaafreh, A., Al-Majali, I., Al-Othman, N., Khleifat, K., Khaleel, S., Al-Tawarah, N.M., Qaralleh, H., Al-majali, M. and Yousef, I., (2021). Evaluation of the Antiglycation Effect of Branched Chain Amino Acids and Phytochemical Compounds on RAW 264.7 Cell Line and their Synergistic Effect on Colorectal Cancer Cell. *Tropical Journal of Natural Product Research* 5(1):88-93
- 2021** AL-KHLIFEH, E. M., KHLEIFAT, K. M., AL-TAWARAH, N. A. F. E., AL-LIMOUN, M. O., ABDEL-GHANI, A. H., ALSHARAF, K., & QARALLEH, H. (2021). Genetic Diversity and Chemical Composition of *Juniperus phoenicea* L Reflect on Its Antimicrobial Activity. *International Journal of Pharmaceutical Research*, 13(1).
- 2021** Khleifat, K. M., Qaralleh, H., Al-limoun, M. O., Al-khlifeh, E. M., Aladaileh, S. A., Tawarah, N., & Almajali, I. S. (2021). Antibacterial and Antioxidant Activities of Local Honey from Jordan . *Tropical Journal of Natural Product Research* 5(3):470-477
- 2021** Alqaraleh, M., Kasabri, V., Al-Majali, I., Aljaafreh, A., Al-Othman, N., Khleifat, K., Al-Tawarah, N.M., Qaralleh, H., Khwaldeh, A.S., Alalawi, S. and al Majali, M., (2021). Branched chain amino Acids as in vitro and in vivo Anti-Oxidation Compounds. *Research Journal of Pharmacy and Technology*, 14(7), pp.3899-3904.
- 2021** Abu-Harirah, H. A., Al Qudah, A. J., Daabes, E., Amawi, K. F., & Qaralleh, H. (2021). Multidrug-resistant Bacterial Profile and Patterns for Wound Infections in Nongovernmental Hospitals of Jordan. *Journal of Pure and Applied Microbiology*, 15(3), 1348-1362.
- 2021** Aljbour, S.H., Khleifat, K.M., Al Tarawneh, A., Asasfeh, B., Qaralleh, H., El-Hasan, T., Magharbeh, M.K. and Al-Limoun, M.O., (2021). Growth Kinetics and Toxicity of *Pseudomonas fredriksbergensis* Grown on Phenol as Sole Carbon Source. *Journal of Ecological Engineering*, 22(10), pp.251-263.
- 2021** Almajali, I.S., Al-Tarawneh, A., Qaralleh, H., Al-Limoun, M., Al-Sarayrah, M.M., Alqaraleh, M., Rayyan, W.A., Khleifat, K.M. and Dmour, S.M., (2021). Biodegradation of Phenol by *Curtobacterium flaccumfaciens*: Optimization of Growth

Conditions. *Polish Journal of Environmental Studies*, 30(6), pp.5435-5442.

- 2021** Qaralleh, H., Khleifat, K. M., Khlaifat, A. M., Al-limoun, M., Al-Tawarah, N. M., Alhroob, A. M., & Alsaudi, A. B. (2021). Chemical Composition, Antioxidant and Inhibitory Effect of Cupressus sempervirens Essential Oils and Methanolic Extract on Beta-lactamase producing Isolates. *Research Journal of Pharmacy and Technology*, 14(9), 4673-4679.
- 2021** Alkafaween, M.A., Magharbeh, M.K., Khleifat, K.M., Saraireh, R., Qaralleh, H., El-Hasan, T., Hujran, T., Jarrah, N., Al-Tarawneh, A., Ajbour, S.H. and Al-limoun, M.O., (2021). Biodegradation of Phenol by Bacillus simplex: Characterization and Kinetics Study. *Applied Environmental Biotechnology*, 6(2), pp.1-12.
- 2022** Althunibat, O. Y., Abukhalil, M. H., Aladaileh, S. H., Qaralleh, H., Al-Amarat, W., Alfwuaires, M. A. & Conte-Junior, C. A. (2022). Formononetin Ameliorates Renal Dysfunction, Oxidative Stress, Inflammation, and Apoptosis and Upregulates Nrf2/HO-1 Signaling in a Rat Model of Gentamicin-Induced Nephrotoxicity. *Frontiers in Pharmacology*, 13.
- 2022** Alhabashneh, W., Khleifat, K. M., Alqaraleh, M., Al-Omari, L., Qinna, N., Al-limoun, M. O., Qaralleh, H. & Alqais, T. (2022). Evaluation of the Therapeutic Effect of Curcumin Phytosomes on Streptozotocin-Induced Diabetic Rats: doi.org/10.26538/tjnpr/v6i4. 11. *Tropical Journal of Natural Product Research (TJNPR)*, 6(4), 529-536.
- 2022** Khleifat, K., Alqaraleh, M., Al-limoun, M., Alfarrayeh, I., Khatib, R., Qaralleh, H., ... & Hajleh, M. A. (2022). The ability of rhizopus stolonifer MR11 to biosynthesize silver nanoparticles in response to various culture media components and optimization of process parameters required at each stage of biosynthesis. *J. Ecol. Eng*, 23(8), 89-100.
- 2022** Hajleh, M. N. A., Khleifat, K. M., Alqaraleh, M., Al-Hraishat, E., Al-limoun, M. O., Qaralleh, H., & Al-Dujaili, E. A. (2022). Antioxidant and Antihyperglycemic Effects of Ephedra foeminea Aqueous Extract in Streptozotocin-Induced Diabetic Rats. *Nutrients*, 14(11), 2338.
- 2022** Altiti, A. J., Khleifat, K. M., Alqaraleh, M., Shraim, A. A. S., Qinna, N., Al-Tawarah, N. M., ... & Qaralleh, H. (2022). Protective Role of Combined Crataegus Aronia Ethanol Extract and Phytosomes Against Hyperglycemia and Hyperlipidemia in Streptozotocin-Induced Diabetic Rat. *Biointerface Research in Applied Chemistry* 13(3): 207
- 2022** Khleifat, K., Qaralleh, H., & Al-Limoun, M. Alqaraleh, M., Abu Hajleh, M., Al-Frouhk, R., Al-Omari, L., Al Buqain, R. and Dmour, S (2022). Antibacterial Activity of Silver Nanoparticles Synthesized by Aspergillus flavus and its Synergistic Effect with Antibiotics. *J Pure Appl Microbiol*. 16(3):1722-1735
- 2022** Al Qaisi, Y. T., Khleifat, K. M., Oran, S. A., Al Tarawneh, A. A., Qaralleh, H., Al-Qaisi, T. S., & Farah, H. S. (2022). Ruta graveolens, Peganum harmala, and Citrullus colocynthis methanolic extracts have in vitro protoscolocidal effects and act against bacteria isolated from echinococcal hydatid cyst fluid. *Archives of*

Microbiology, 204(4), 1-13.

- 2022** Alhabashneh, W., Khleifat, K. M., Alqaraleh, M., Al-Omari, L., Qinna, N., Al-limoun, M. O., ... & Alqais, T. (2022). Evaluation of the Therapeutic Effect of Curcumin Phytosomes on Streptozotocin-Induced Diabetic Rats: doi. org/10.26538/tjnpr/v6i4. 11. Tropical Journal of Natural Product Research (TJNPR), 6(4), 529-536.
- 2022** Alkafaween, M. A., Al-Jamal, H. A. N., Khleifat, K. M., Qaralleh, H., Al-limoun, M. O., Alqaraleh, M., ... & Abed, A. (2022). Different optimization conditions required to enhance the reduction potential of silver nanoparticle biosynthesis via the Mycelia-free filtrate step using the fungus *Aspergillus flavus*. Applied Environmental Biotechnology, 6(1), 42-50.
- 2022** Qaralleh, H., Khleifat, K., Al-Limoun, M., Al-Tarawneh, A., Khleifat, W., Almajali, I., ... & Alsowayeh, N. (2022). Antibacterial activity of airborne fungal mediated nanoparticles in combination with *Foeniculum vulgare* essential oil. Journal of Herbmed Pharmacology, 11(3), 419-427.
- 2022** Altarawneh, R. M., Al-Jaafreh, A. M., Qaralleh, H., & Al-Qaralleh, O. S. (2022). Chemical profiling of *Punica granatum* peels from Jordan using LC–MS/MS and study on their biological activities. International Journal of Food Science & Technology, 57(8), 5256-5267.
- 2022** Al-Soub, A., Khleifat, K., Al-Tarawneh, A., Al-Limoun, M., Alfarrayeh, I., Al Sarayreh, A., Al Qaisi, Y., Qaralleh, H., Alqaraleh, M. and Albashaireh, A., 2022. Silver nanoparticles biosynthesis using an airborne fungal isolate, *Aspergillus flavus*: optimization, characterization and antibacterial activity. Iranian Journal of Microbiology, 14(4).
- 2022** Dmour, S. M., Qaralleh, H., Al-Limoun, M., Khleifat, K. M., Alqaraleh, M., Alqudah, A. A., & Altarawneh, R. M. (2022). Combined Antibacterial activity of Eucalyptol, γ -terpinene, p-cymol and punicalagin with Cefotaxime against Methicillin (Oxacillin) Resistant *Staphylococcus aureus* Isolate. Research Journal of Pharmacy and Technology, 15(9), 3905-3911.
- 2022** Khleifat, K.M., Khalil, M.M., Al-kafaween, M.A., Alqaraleh, M., Al-limoun, M.O., Al-Qaisi, T.S., Farah, H.S., Nijris, O.N., Al-Tarawneh, A., Qaralleh, H. and Hajleh, M.N.A., (2022). Studying the relationship between women hormonal activity and the distribution of bacterial vaginosis and bacteria's antibiotics susceptibility. Journal of Applied Pharmaceutical Science, 12(12):105-116.
- 2023** Al-Tawarah, N.M., Kaptan, Z., Abu-Harirah, H.A., Nofal, M., Almajali, B., Jarrar, S., Bayraktaroglu, Z., Qaralleh, H., Khleifat, K.M., Ziylan, Z.Y. and Alqaraleh, M., 2023. Effectiveness of Anodal tDCS Following with Anodal tDCS Rather than tDCS Alone for Increasing of Relative Power of Intrinsic Matched EEG Bands in Rat Brains. *Brain Sciences*, 13(1): 72
- 2023** Altiti, A. J., Khleifat, K. M., Alqaraleh, M., Shraim, A. A. S., Qinna, N., Al-Tawarah, N. M., ... & Qaralleh, H. (2022). Protective Role of Combined *Crataegus Aronia* Ethanol Extract and Phytosomes Against Hyperglycemia and Hyperlipidemia in

Streptozotocin-Induced Diabetic Rat. *Biointerface Research in Applied Chemistry* 13 (3), 207

- 2023** Al Assi, G., Al-Bashaereh, A., Alsarayreh, A., Al Qaisi, Y., Al-Majali, I., Khleifat, K., Qaralleh, H., & Al-Farrayeh, I. (2023). Evaluation of Antibacterial, Antioxidant and Anti-inflammatory Properties of Methanol Extract of *Varthemia iphionoides*. *Tropical Journal of Natural Product Research*, 7(1).
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