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Education

Education Level	Year
B.Sc. in Biology/Mutah University (Jordan)	1997-2001
Master of Science in Biology/Mutah University (Jordan)	2001-2004
PhD in Industrial Biotechnology/Universiti Sains Malaysia (Malaysia)	2005-2010

Publications

1. Khleifat, K.M., Abboud, M., **Laymun, M.**, Al-Sharafa, K. and Tarawneh, K., 2006. Effect of variation in copper sources and growth conditions on the copper uptake by bacterial hemoglobin gene (vgb) bearing E. coli. Pakistan Journal of Biological Sciences, 9(11), pp.2022-2031.
2. **Muhamad O. Al-limoun** and Ibrahim Che Omar. Stepwise Parametric Optimization of Organic Solvent Tolerant Lipase Production by an Indigenous Isolate, *Trichoderma harzianum* BW45. Journal of Science, Technology and Management. 2008, Vol 1 (2), p 3-21.
3. **Muhamad O. Al-limoun**, Mayssa R. Ananzeh, Khaled M. Khleifat (2015) Screening, Selection and Optimization of Extracellular Methanol and. Ethanol Tolerant Lipase from *Acinetobacter* sp. K5b4. International Journal of Biosciences 6(10):44-56.
4. Khalid Y. Al-sharafa and **Muhamad O. Al-limoun** (2015) Isolation and identification of *Ulocladium* sp. VL204 associated with Pistacia atlantica

- leaves from Dana biosphere reserve, Jordan. *International Journal of Biosciences* 6(6):119-126.
5. Khleifat, K. M., Sharaf, E. F., & **Al-limoun, M. O.** (2015). Biodegradation of 2-chlorobenzoic acid by *Enterobacter cloacae*: growth kinetics and effect of growth conditions. *Bioremediation Journal*, 19(3), 207-217.
 6. Al-Asoufi, A., Khlaifat, A., Al Tarawneh, A., Alsharafa, K., **Al-Limoun, M.**, & Khleifat, K. (2017). Bacterial Quality of Urinary Tract Infections in Diabetic and Non Diabetics of the Population of Ma'an Province, Jordan. *Pakistan journal of biological sciences: PJBS*, 20(4), 179-188.
 7. Zaitoun, M. A., El-Qisairia, A. K., Zoubia, J., Momanib, K. A., Jaradatc, Q. M., **Allimound, M. O.**, ... & Qaseera, H. A. (2017). Complexometric Investigation to Differentiate Pd (II) and Pd (IV) ions in Solution. *JORDAN JOURNAL OF CHEMISTRY*, 12(2), 71-84.
 8. Al-qwabah, A. A., **Al-limoun, M. O.**, Al-Mustafa, A. H., & Al-Zereini, W. A. (2018). *Bacillus atrophaeus* A7 Crude Chitinase: Characterization and Potential Role against *Drosophila melanogaster* Larvae. *Jordan Journal of Biological Sciences*, 11(4).
 9. 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.
 10. 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.
 11. **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.
 12. 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.

13. Al Fraijat, B., Al-Tawarah, N.M., Khlaifat, A.M., Qaralleh, H., Khleifat, K.M., A.M., Al-Zereini, W. and **Al-limoun M.O.**, (2019), Urinary tract infection and non-ruptured acute appendicitis association: Uro-pathogens findings. *Tropical Biomedicine*, 36(3), 620–629.
14. Tarawneh, K., Farah, A. Q., Qaralleh, H., Al Tarawneh, A., **Al-limoun, M.**, & Khleifat, K. (2019). Biodegradation of Chlorobenzoic Acid Substitutes, Particularly, 2-Chlorobenzoic Acid by *Aeromonas hydrophila*. *Journal of Basic and Applied Research in Biomedicine*, 5(2), 124-135.
15. Allawi, H., Al Tarawneh, A., Qaralleh, H., **Al-limoun, M.**, & Alsharafa, K. (2019). Using 3, 4-dichloro benzoic acid as growth substrate by *Brevibacterium* spp: Effect of some growth conditions. *Journal of Basic and Applied Research in Biomedicine*, 5(2), 115-123.
16. **Muhamad Al-limoun**, Haitham Qaralleh, Khaled Khleifat, Mohammed Al-Anber, Amjad Al-Tarawneh, Khalid Al-sharafa, Mohammed Kailani, Mohammed Zaitoun, Suzan Matar, Toqa Al-soub. (2020). Culture Media Composition and Reduction Potential Optimization of Mycelia- free Filtrate for the Biosynthesis of Silver Nanoparticles Using the Fungus *Tritirachium oryzae* W5H. *Current Nanoscience*, 16(5). 757-769.
17. **Muhamad O. Al-limoun**. (2019). Potential Bioremediation of Waste Corn Oil by Extracellular Lipase Enzyme from *Monascus purpureus* W7. *Bioscience Research*, 16(4): 3508-3522.
18. Qaralleh, H., **Al-limoun, M.O.**, Khleifat, K.M, Alsharafa, K.Y., Al Tarawneh, A.A. (2019). *Vitreoscilla* sp. hemoglobin (VHb) Expression in Heterologous Hosts: Some Aspects of Their Biotechnological Application. *Journal of basic and applied Research in Biomedicine*, 5(2): 81-88.
19. Alrawashdeh, I.N., Qaralleh, H., **Al-limoun, M.O.**, Khleifat, K.M. (2019) Antibacterial Activity of *Asteriscus graveolens* Methanolic Extract: Synergistic Effect with Fungal Mediated Nanoparticles against Some Enteric Bacterial Human Pathogens. *Journal of basic and applied Research in Biomedicine*, 5(2): 89-98.

20. Jaafreh, M., Khleifat, K.M., Qaralleh, H., **Al-limoun, M.O.** (2019). Antibacterial and Antioxidant Activities of *Centeurea damascena* Methanolic Extract. Journal of basic and applied Research in Biomedicine, 5(1): 55-63.
21. Jaafreh, M., Qaralleh, H., & **Al-limoun, M. O.** (2019). Biological Value of *Centaurea damascena*: Minireview. Journal of Basic and Applied Research in Biomedicine: 5(2): 99-106.
22. Khlaifat, A. M., **Al-limoun, M. O.**, Khleifat, K. M., Al Tarawneh, A. A., Qaralleh, H., Rayyan, E. A., & Alsharafa, K. Y. (2019). Antibacterial synergy of *Tritirachium oryzae*-produced silver nanoparticles with different antibiotics and essential oils derived from *Cupressus sempervirens* and *Asteriscus graveolens* (Forssk). Tropical Journal Of Pharmaceutical Research, 18(12), 2605-2616.
23. Tarawneh, A. A., Qaralleh, H., **Al-limoun, M. O.**, & Khleifat, K. M. (2019). Effect of Copper Chemical Form on The Growth of *Pseudomonas aeruginosa* Isolated from Burned Patients and on Its Cu Uptake. Journal of Basic and Applied Research in Biomedicine: 5(2): 107-114.
24. Al-Sammarraie, O. N., Alsharafa, K. Y., **Al-Limoun, M. O.**, Khleifat, K. M., Al-Sarayreh, S. A., Al-Shuneigat, J. M., & Kalaji, H. M. (2020). Effect of various abiotic stressors on some biochemical indices of *Lepidium sativum* plants. Scientific Reports, 10(1), 1-10.
25. Qaralleh, H. A., **Al-Limoun, M. O.**, Khlaifat, A., Khleifat, K. M., Al-Tawarah, N., Alsharafa, K. Y., & Abu-Harirah, H. A. (2020). Antibacterial and antibiofilm activities of a traditional herbal formula against respiratory infection causing bacteria. Tropical Journal of Natural Product Research. ; 4(9):527-534.
26. Al-Tawarah, N. M., Qaralleh, H., Khlaifat, A. M., Nofal, M. N., Alqaraleh, M., Khleifat, K. M., **Al-limoun, M.O.** & Al Shhab, M. A. (2020). Anticancer and Antibacterial Properties of *Verthemia Iphionides* Essential Oil/Silver Nanoparticles. Biomed Pharmacol J, 13(3), 1175-1185.
27. Alghonmeen, O. O., Alsharafa, K. Y., **Al-limoun, M. O.**, Khleifat, K. M., & Al-Ramamneh, E. A. D. M. (2020). Assessment of exogenous application of plant growth regulators on Cress seed germination and β -Galactosidase activity. Plant Science Today, 7(2), 257-263.

28. **Al-limoun, M. O.** (2020). Process Optimization of Waste Corn Oil Hydrolysis Using Extracellular Lipase of *Tritirachium oryzae* W5H in Oil-Aqueous Biphasic System. *Jordan Journal of Biological Sciences*, 13(1).
29. 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).
30. 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*.

Working experience

1. Biology teacher, Ministry of Education (Jordan), 2001-2005.
2. Full time lecturer (15/08/2008- 31/05/2010) in Faculty of Biotechnology at International University Collage of Technology TWINTECH (Malaysia).
3. Part-time lecturer in biology department at Mu'tah University (Jordan) since 24/10/2010- to 10-9-2011.
4. Full time lecturer in biology department at Mu'tah University (Jordan) since 11/9/2011- .
5. Director assistant and quality manager at Prince Faisal Center for Dead Sea, Environmental and Energy Research (PFC-DSEER), Mu'tah University, Jordan (18-9-2012 to 30-8-2013).
6. Head of Biological Sciences Department, Faculty of Science, Mu'tah University, Jordan (1-9-2013 to 30-8-2014).
7. Head of Medical Laboratories Sciences Department, Faculty of Science, Mu'tah University, Jordan (1-9-2016 to 4-9-2018).
8. Head of Biological Sciences Department, Faculty of Science, Mu'tah University, Jordan (1-9-2019-).

Skills

- 1- ICDL (International Computer Driving License) certificate from UNISCO
- 2- MOODLE

Seminars, Symposiums, Workshops and Training

- 1- Selection of an organic solvent tolerant lipolytic enzyme producing microorganisms from indigenous sources. 9th Symposium of Malaysian Applied Biology, Penang, Malaysia. 30-31 May 2007.
- 2- Lipases from *Bacillus megaterium* BW 16 and *Trichoderma harzianum* BW45: Comparative hydrophilic-hydrophobic organic solvent tolerance. Paper presented at international symposium on Advances in Food Biotechnology and Nutrition. Tiruvalla, Kerala, India. November 30- December 1, 2007.
- 3- Using MOODLE as E-learning management system (training). 25/3/2012-8/5/2012. Mutah University, Jordan.
- 4- Fundamental of train the trainer seminar. 24th, 25th and 26th June, 2009. Malaysia.
- 5- EMPOWER Tunisia Workshop. 9-14 December, 2012. Tunisia
- 6- ISO/IEC 17025:2005 and internal auditing for laboratories (Training). USAID water reuse and environmental conservation project. 11-14 October, 2012. Amman, Jordan.
- 7- ISO/IEC 17025:2005 requirements (Training). USAID water reuse and environmental conservation project. 21 April, 2013. Amman, Jordan.
- 8- Writing nonconformity and internal audit reports (Training). USAID water reuse and environmental conservation project. 29 August, 2013. Amman, Jordan.
- 9- Ensuring quality of test methods according to ISO/IEC 17025:2005 (Training). USAID water reuse and environmental conservation project. 03, 05 and 06 October, 2013. Amman, Jordan.
- 10- Sustainable management of hydrological systems in arid and semi-arid regions workshop. 11-15 May, 2013. Karak-Amman, Jordan
- 11- Active pedagogical techniques in higher education: combining multidisciplinary learner-centered educational experience from Egypt, Germany, Malaysia and United States. 3-4 October 2018, Mutah University, Jordan
- 12- Purification and formulation of solutions (Seminar). Sena establishment for laboratory equipment trading. 4th February, 2018. Amman, Jordan.

13- Electron probe micro analyzer workshop. 25 April, 2019. Al-al-Bayt University, Mafraq, Jordan.

Committee Membership

- 1- Prince Faisal Center for Dead Sea, Environmental and Energy Research Council Member/Mutah University/ Jordan (7/9/2015-7/9/2017).
- 2- Member of the assigned committee for establishment of Nano research center in Faculty of Science/Mutah University/ Jordan (7/4/2015).
- 3- Member of the assigned committee for preparing of the study plane for the bachelor degree in applied biology for the department of applied biology in Tafila Technical University/Jordan (1/7/2015).
- 4- Prince Faisal Center for Dead Sea, Environmental and Energy Research Council Member/Mutah University/ Jordan (3/10/2019-3/10/2019).
- 5- Postgraduate study committee member in Faculty of Science/Mutah University (22/9/2019-22/9/2020).

References

1- Prof. Khaled M Khleifat

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2- Prof. Ibrahim Bin Che Omar

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3- Prof. Khaled Ahmed Tarawneh

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