

# Khaled M Khleifat

Professor of Microbiology and Biotechnology E-mail: <u>alkhkha@mutah.edu.jo</u>, <u>alkh\_kha@hotmail.com</u> Mutah University, Department of Medical Laboratory Science, College of Allied Medical Sciences P. O. Box (7) Mutah, Karak, 61710, Jordan Tel #: 00 962 (79)-9010-339 (cellular)

#### **PERSONAL DETAILS:**

Nationality Place & Date of Birth Marital Status Dependents : Jordanian : Jordan, Wadi Mousa. 15<sup>th,</sup> March, 1966 : Married : 2

## WORK ADRESS

Dept. of Biology, College of Science, Mutah University, P.O.Box (7) Mutah, Karak, 61710, Jordan Tel: 962 (3)-2372-380 ext : 3222, 6032

#### **EDUCATION**

1972-	1981 AL-Taybeh Preparatory School, Maan, Jordan
1982-	1984 Maan Secondary School, Maan, Jordan

- 1984- 1988 Biology Dept. Faculty of Science, Sallah-Addin, University, Arbil, Iraq
- 1990- 1993 Biology Dept. Faculty of Science, Ankara, Turkey
- 1995- 1999 Biology Dept. Illinois Institute of Technology, Chicago, USA

#### **DEGREE**

- 1988 B. Sc. Microbiology, Faculty of Sciences, Arbil, Iraq
- 1993 M. Sc. Biology, Faculty of Sciences, Ankara, Turkey
- 1999 Ph. D. Biology (Illinois Institute of Technology, Chicago, USA

#### Ph.D. THESIS

2, 4-DNT Dioxygenase Purification from Recombinant E. coli Strain PFJS39, its Characterization and Interaction With the bacterial Hemoglobin Expressed by vgb.

#### **M.Sc. THESIS**

Ultra-Structure of Kidney After Bile Duct Ligation in Rabbit

#### ACADEMIC RANKS

0	1999- 2004	Assistant professor, Mutah University, Jordan
0	2004-2008	Associate Professor, Mutah University, Jordan
0	8/8/2008	Professor in Microbiology (With one year seniority)

#### FIELD OF SPECIALIZATION

## Microbiology (MICROBIAL BIOTECHNOLOGY)

Gene Cloning, Enzyme Purification, Identification of bacteria, Bioremediation, Medical microbiology, Biosynthesis and characterization of nanoparticles. Heavy Metal Uptake, Biochemical and Physiological Studies, Environmental Pollution and mathematical modeling of the biodegradation

# **CURRENT RESEARCH INTERESTS**

- Medical microbiology
  - Nano-biotechnology
  - Parasitology
  - Anticancer and some physiological studies
  - Isolation and identification of organic compounds-degrading bacteria, in different locations in south Jordan.
  - Heavy metals uptake in bacteria.
  - Bacterial hemoglobin biotechnology:
    - effect on heavy metal bioaccumulation,
    - enzyme productivity,
    - o response to antioxidants in bacteria.
  - Some local work on environmental pollution including bacterial composition of waste water, Enzyme purification and kinetics.

## AWARDS

0	2017 Staff Mobility For Training (Academic Visitor), Staffordshire
	University, UK, Erasmu+KA, EU-funded academic project programme
	agreement no. 2 18.1.2017-4.2.2017
0	2010- DFG preparatory short visit scholarship (Host was Karl-Josef Dietz
	Bilafiled University/Germany), Jan 10th - 31st 2011.
0	2009 The Scientific Prize for Young Arab Researchers-Abdul Hameed Shoman
0	<b>2008</b> Attained a one-year seniority for promotion purpose
0	<b>1995-1999</b> Mutah University Scholarship for Completing the PhD at Chicago,
	USA.
0	<b>1990-1993</b> Ministry of Higher Education Scholarship for Completing the MSc,
	Ankara University, Ankara,, Turky.
0	<b>1984-1988</b> Ministry of Education Scholarship for Completing the BSc at Irbil,
	Iraq.

# **ACADEMIC AND ADMINSTRATION EXPERIENCE**

Head of the Basic Sciences Sector Committee, Jordan's Ministry of Higher
Education, Scientific Research and Innovation Fund, Amman, Jordan
Chairman of the Strategic Plan Committee/College of Allied Medical Sciences
A liaison officer for Prince Hassan Award for Scientific Excellence (The Higher
Council for Science and Technology, Amman, Jordan 2017), in Mutah
University
Vice President for Administrative and Financial Affairs, Tafila Technical
University (TTU), Jordan
Acting President of the Tafila Technical University several times in the absence of
the President of the University
Chairman of the Quality assurance Committee, Department of Biology,
Mutah University. Karak, Jordan
Member of the Council of the Faculty of Science, Mutah University, Jordan
Member of the research committee of the Faculty of Science, Mutah University,
Jordan
Member of the graduate committee of the biology department, Mutah
University, Jordan

2014- 2016	Chairman of the Accreditation Committee for Journals accredited for promotion
2014- 2016	Chairman of the Human Resources Committee-Tafila Technical University
2017-2010	Tafila. Jordan
2014- 2016	Chairman of the Central Tenders Committee-Tafila Technical University, Tafila,
	Jordan
2014- 2016	Chairman of the health-insurance Tafila Technical University, Tafila, Jordan
2014-2016	Chairman of the on-campus housing committee Tafila Technical University, Tafila, Jordan
2014- 2016	Chairman of several committees for the drafting of several systems at the
	University of Tafila, including the financial, the supplies, investment and
	provident fund and movement and travel-systems, Tafila Technical University,
	Tafila, Jordan
2014-2016	Member of the scholarships Committee - Tafila Technical University, Tafila, Jordan
2014-2016	Member of the Appointment and Promotion Committee-Tafila Technical
	University, Tafila, Jordan
2014-2016	Member of the Committee of Scientific Research-Tafila Technical University,
	Tafila, Jordan
2014-2016	Member of the University Council, Tafila Technical University, Tafila, Jordan
2013-2017	Al-Ahaliyya Amman University Trustees Board Member
<b>2009-</b> 9-22 <sup>nd</sup> –	$9-1^{\circ} 2012$
2000 0 1 <sup>st</sup> 22	<ul> <li>Dean of Faculty of Science, Mutan University, Jordan</li> <li>11 2000</li> </ul>
2009-9-1 -22	-11.2009 Vice Deen of Feculty of Science Mutch University Jorden
2009- 2013	Philadelphia University Trustees Board Member
2009-2013	Head of the Dent of Biology Mutah University Jordan
2007-2008	Vice Dean of Faculty of Science Mutah University Jordan
2007-2008	Chairman of post graduate committee in the Faculty of Science. Mutah
	University, Jordan
2000-2003	Chairman of the Postgraduate Studies Committee at the Dept. of
	Biology, Mutah University, Jordan
2007-2008	Member of post graduate committee in the Mutah University.
2007-2008	Member of the Council of the Faculty of Science, Mutah University, Jordan
2009-2012	Member of the Committee scholarships- Mutah University, Jordan
2009-2012	Member of the Appointment and Promotion Committee- Mutah University, Jordan
2009-2012	Member of University Council/Mutah University, Jordan
2009-2012	Students Concerns-Committee Member/Mutah University, Jordan
2009-2012	Member of post graduate committee in the Mutah University.

# ACADEMIC RECORD

٠	in Biology, Al-Zaytona University, Amman, Jordan
٠	Dept. of Biology, Mutah University, Karak, Jordan
٠	Dept. of Biology, Illinois Institute of Technology,
	Chicago, Illinois, USA
•	Part-time at Robert Morris College, Chicago, IL,
	USA
٠	at Medical School, University of Illinois at Chicago,
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## **QUALITY and ACCREDITATION EXPERIENCES**

- Develop a complete plan for the establishment of the Department of Applied Life Sciences at Tafila University, Tafila, Jordan
- Chairman of Quality Committee, Department of Life Sciences, Mutah University, Jordan
- Member of a committee to develop the general questions for the proficiency exam for undergraduate students in Jordanian universities
- Member of several committees to approve specialization programs in biology and applied biology
- Enhancing Quality Assurance Management in Jordanian Universities, EQuAM-Training on internal Quality Assurance Management, Sapienza University, Rome, Italy

## **GRANTS and PROJECTS**

- **36,700 JD** (The Synergistic Effect of Biochar and Biosynthesized Silver Nanoparticles (AgNPs) on Performance of AgNPs against Different Cancer Cells and Pathogenic Bacteria). Al-Ahliyya Amman University (AAU), Duration 2022-continue
- **27,000 JD** Biosynthesis, characterization and antimicrobial activity of silver nanoparticles by using new fungal species and synergistic activity of silver nanoparticles with various\_common medicinal plants used in Jordan. Mutah University, Jordan: Duration 2021-continue
- **1,100,000 €** Developing tools for sustainable food production in Mediterranean area using microbes (SUPREME). ERANETMED-Environmental Challenges and

	Solutions for Vulnerable Communities. Participant researchers from Italy,		
	Cyprus, Greece, Algeria and Jordan (Mutah University),. Researchers from		
	Jordan are Prof. Dr. Khaled M Khleifat, and Prof. Dr. Tayel Al-Hasan, Mutah		
	University: Duration Date: may1 <sup>st</sup> 2017- Dec. <sup>1st</sup> 2021		
70,000 €	Partner and Institutional Coordinator, International credit mobility Erasmus +,		
	projectKA1 with Staffordshire University, Grant no, 2015-2-UK01- KA107-		
	022799, 2017 (Tafila Technical University).		
<b>100,000 SR</b> 2,4-DCBA biodegradation were obtained from Taibah University,			
	Deanship of Scientific Research, Saudi Arabia		
117,000 JD	Mohammad Wedyan, Khaled Khleifat, Ahmad Alokla (2009) The impact of		
	the Red Sea Canal Project - (Channel of peace) on the ecosystem of the Dead		
	Sea. Research Support Fund, Ministry of higher Education and Scientific		
	Research, Amman, Jordan		
10,000 JD	Antioxidant enzymes and minerals regarding rare oxidation in erythrocytes		
	disease idiocy Mongolian blood in Karak, Mutah University, Jordan		
7,150 JD	Study the effects of Bacterial Hemoglobin Biotechnology on the Detoxification		
	of Heavy Metals and Beta Galactosidase Activity, Mutah University, Jordan		
25,000 JD	Several other grant proposals were obtained from Mutah University, Deanship		
	of Scientific Research		

## <u>As Chairman of Tenders Committee at Tafila Technical University, The Most Prominent</u> <u>Achievements Were As Follows:</u>

**1.** Participating in negotiations with the bidding companies (estimated at about 15 million Jordanian dinars as Gulf grants) at the university in order to alleviate the capital burden in addition to obtaining two cars for the university worth nearly 70,000 Jordanian dinars and receiving 20,000 dinars for the student fund

**2.** Participating in the tender for alternative solar power generation capacity of 1 MW. through which university buildings were supplied with solar cells that produced electricity to meet the University's energy needs.

**3.** Implementation and follow-up of the construction of halls, admission, registration buildings, computer center, engineering workshops and the establishment of the laboratories of the department of applied biology, which was established for the first time

4. Establishing the radio station of Tafila Technical University and follow purchasing its equipment

**5.** Participation in the Energy Committee with the Ministry of Energy in enabling the university to invest in energy through direct offers to reduce the financial burden

# SOCIAL ACTIVITIES

• A liaison officer (representative of Mutah University) of the Regional Initiative on Water, Energy and Food Interrelationship (MINARET) held in Karak Municipality. The project was launched by the Royal Scientific Society / National Center for Energy Research (RSS / NERC) in partnership with the International Union for the Conservation of Nature (IUCN) ) And Future Pioneers Association for Community Empowerment (FPEC) and funding from the Swedish International Development Agency (Sida).

•Member of the Higher Advisory Committee to the Office of Petra Development and Tourisms Region Authority, Jordan

•Several thanks books from charitable organizations in Tafileh for support and consultation.

# **RESEARCH EXPERIENCE**

✓ I Intended several works in my national and international conferences and published more than 70 papers. Right now I am Supervising 6 Master Students and 60 MSc students were already graduated through 2003-2022.

# TITLES OF MASTER THESES AND NAMES OF GRADUATE STUDENTS UNDER MY SUPERVISION:

- I was a co-Advisor of PhD student, Ibrahim Majali, University of Jordan -2012
- I am Advisor of PhD student Yasin Taha Alqaisi 2020- University of Jordan 2019-
- The effect of different carbon and nitrogen sources on copper uptake by three strain of *E. coli*, (2004). MSc: Muhamad Odeh Al-limoun.
- Factors affecting the production of β-Galactosidase in different Strains of *Enterobacter aerogenes*, (2004) Khalid Y. Al-Sharafa, (Co-advisor).
- Phenol biodegradation by klebsiella Oxytoca, (2005). Ibraheam S. Al- Majali.
- Effect of wastewater treatment on the bacteria Quality And Quantity at Mutah University plant, (2005). Waad Al-Shamailah.
- Isolation of Lanate-degrading bacteria from Jordan Valley, Feryal Khraisat: University of Jordan, (Co-advisor)
- Biodegradation of phenol by isolated bacteria from soil of Al-kherbah Al-Samrah in Jordan, (2006). Sabah Eid Abu Khalil.
- **Biodegradation of some surfactants by two bacterial Consortiums**, (2005) Nadia Ahmad Al-Maabreh.
- Activation and inhibition of plant polyphenol oxidase enzyme, (2004). (Co-advisor): Elshafei M. Badawi.
- Biodegradation of linear Alkylbenzene Sulfonate by a pure culture of bacteria isolated from Al-kherbeh Al-Samrah, Jordan, (2006). Reema Atallah Al-Halasah.
- Effect of Herbal plants on the growth of *pseudomonase aeruginosa*, (2006) (Co-advisor), Haitham N. Qaralleh.
- Isolation of bacteria causing urinary tract infections, (2005). Jafar Juma Hassony Al-Kurishy.
- Using Chlorobenzoic Acid Compounds as growth substrate and detection of their Degrading enzyme in isolated Aeromonas Hydrophlia, (2009). (Co-advisor). Farah Mohammad Salih Turkey.
- Biodegradation of 2-Chlorobenzoic acid by *Acinetobacter calcoaceticus*: Effect of some growth conditions, (2009). Ibrahim Khaled AL- Kafawin:
- Cadmium-resistant bacteria isolated from Petra City wastewater treatment station, (2009). Nawel Rashid Adjeroud:
- Using 3-4 dichlorobenzoic acid as carbon source by Corynbacterium argentinaea, Shadiya Al-Majali. (2010)
- Biodegradation of 3-4 dichlorobenzoic acid by bacterial strains isolated from wastewater, Haya Alawi.(2010)
- Prevalence and molecular diversity of *Legionella pneumophila* in domestic hot water systems of private apartments, Jafer Alomari (2012)
- Antibiotic activity of some fungal isolates from Petra province, Jordan. Ahmad Salim Khleifat.
- Assessment of the antioxidant and antimicrobial potentials of Rubus Sanguineus friv. (Rosaceae) leaves and fruits. Rana Hussain Zeidan.
- **Perforated appendicitis and its effect on urinary tract system**, Baraa Abdulhamid Fraijat.

- Antimicrobial Activity of bacterial isolates against some pathogenic Bacteria. Sakhaa Al-Dardasawi.
- Enhancement of Lipase activity in bacteria by bacterial hemoglobin gene, *vgb*. Al-Ananza Maisa.
- Purification and Characterization of Organic Solvent Tolerant Extracellular Lipase from Bacterial Isolate K5B4. Sadam Attalah Alrawashdeh
- Antimicrobial and antioxidant activity of honey produced in different Jordanian-producing territories Sundus Adaileh
- Characterization, Purification and isolation of extracellular lipase-producing bacteria toward different organic solvents. Reham Majali.
- . Antimicrobial and antioxidants of Lantana camara and Capparis spinose. Mohammad Jaafreh
- The Production of organic solvents-resistant lipase In local bacterial isolate: optimization of growth conditions. Nawal Hamadin
- . Antimicrobial activity of Verbascum sinaiticum Ahmad Alsaudy
- Characterization of silver nanoparticles (AgNPs) synthesized from fungal isolates, Toqa Al-Soub
- Correlation between Plant Growth Promoting traits with phenol biodegradation by Mutaz saraireh 2019-2020
- Biodegradation of phenol by Paenarthrobacter nitroguajacolicus by Suzan Saraireh 2019-2020
- Optimization condition for phenol biodegradation by Microbacterium murale Batool Asasfeh 2019-2020
- Biosformation and characterization of extracellular silver nanoparticles using fungal isolate Intisar Jamaein, 2019-2020
- Effect of Phytosomes of different phytoextracts (Allium sativum, Zingiber officinale and Crataegus monogyna) in combined with probiotics bacteria on the induced Diabetes in rats, By Ammar Jaber Mohammad, 2020.
- Antimicrobial activity produced by plant growth promoters bacteria, by Waqar Khleifat, 2020
- Effect of phytosomes of different phytoextracts of *Trigonella foenum-graecum* (Fenugreek seeds), Curcuma longa (Turmeric), and *Aloe vera* (Aloe) on the induced diabetic rats, by Wasil Al-Habashneh, 2020.
- Capability of using phenol as growth substrate by using growth promoter producing Serratia odorifera, by Kholoud Dakhlallah Alshiyyab, 2020
- Antimicrobial Activity of different extracts of Azadirachta indica (neem), by Mustafa Khaled Issa Flaifel, 2020
- Using fungal isolate as a mean for biosynthesis of silver nanoparticles and their antibacterial activity by Aram Soub 2020-
- Synergistic Antimicrobial Activity of air born fungal mediated Nanoparticles by Waqar Khleifat 2020- 8
- Effect of Peppermint and rosemary oil on the passive avoidance learning and spatial memory in amnesia symptom: Using a rat with Alzheimer's disease as a model. By Rawand Dmour 2020-
- Antibacterial Activity of Silver Nanoparticles against Some Bacterial Human Pathogen: A synergistic effect with known synthesized antibiotics by Rahaf Jameel Abdul-Hafez Al-Farukh 2020-
- Protective role of honey bee venom for short, long-term memory and spatial working memory in symptoms of amnesia: using mice with Alzheimer's disease as a model by Weaam Kasasbeh 2020-

- Antibacterial activity of biosynthesized silver nanoparticles using fungal isolate by Ahmad Mohammad Alabad Eyal Awwad 2020-
- Biosynthesis and characterization of silver nanoparticles by using air-born fungal isolate by Abdelalim Yacouop Younis Abusabha. 2020-
- Roposal Title: Antimicrobial, antioxidant and in-vivo immunomodulatory effect of Varthemia methanolic extract. By Anas Bashaireh 2020-
- Study the relationship between the women hormonal activity with the distribution of bacterial vaginosis. By Marwa mahfoudh Khalil 2020-
- Phylogenetic diversity of bacteria associated with the marine sponges from the Gulf of Aqaba, Red Sea. By Ola A. Al-Madadheh 2021-
- Evaluation of silver nanoparticles' antibacterial and antioxidant properties in combi nation with biochar-Aseel Mashaaeleh2022
- The association between anemia with iron deficiency and vitamin D status in Jordan. By Sameer Yahia sari AL-Edimat
- Correlation between red blood storage and oxidative stress among Jordanians By Raed Abd-Elrahman Alhyasat
- Evaluation the potential effect of methanolic extract of *Stylissa carteri* onPI3k/AKT/mTOR pathway in different cancer cell lines. Lena Fares Almashaleh
- Studying the Potential In Vitro Cytotoxic Effect of Agelas conifer methanolic extract against different cancer cell lines: By Raya Obaid Alrodan
- Evaluation of the potential antiproliferation and antimicrobal effect of silver nanoparticles and biochar using cancer cells By Safa Saad Abed Al-alwani
- Studying apoptosis induction by metabolic extract of Marine sponge Dysidea tuapokere isolated from Aqaba gulf sea by Riham Mohammed Khamis Fadelah
- HaematologicalImmunologicalandAllergicReactionsTestsofSheepShepherdsintheProvinceofAl-Karak by Abdullah Alkfaween
- *In vitro* and *In vivo* Studies on the Antimicrobial, Antioxidant, Anti-inflammatory Activities and burn wound healing of *Linum mucronatum* methanolic extract in rat By Abrar Jameel Al-hawari
- The Impact of the Bacterial Cultivation Time on its Susceptibility to *Rhus coriaria* seed Methanolic Extract Treatment By Taima Ahmad Nawafleh
- I was a member of MSc thesis defense committee for more than 200 MSc students. Some of the projects in microbiology that were supported by university grants Include:
  - ✓ Using Bacterial Hemoglobin Gene, *vgb* Biotechnology as a Positive Enhancer for the Biodegradation of Organic Compounds,
  - ✓ Effect of Waste Water Treatments on the Bacterial Composition of the Karak Hospital Waste Water (local study)
  - ✓ Isolation of Heavy Metal-Resistant Bacteria from Industrial Karak City and Determine if the gene responsible for heavy metal resistance is Chromosomal or on Plasmid
  - $\checkmark$  Correlation of bacterial hemoglobin and aeration and their effect on αamylase activity in the transformed *Enterobacter aerogenes*
  - Biodegradation activity of organic compounds by bacteria isolated from wastewater and soil.
  - Isolation and Identification of Pesticides-degrading Bacteria from Jordan Valley.
  - Effect of chlorination of wastewater on the antibiotic-resistant profile (Petra province wastewater treatment plant, South of Jordan)

## **CONFERENCES**

- 1999 American Society for Microbiology Conference, Chicago, USA
- 2000 2nd Euro conference for Biometals, Dresden, Germany
- 2001 2nd Conference of the Life Sciences, Yarmouk University, Irbid,
- Jordan
- 2002 International Conference for Biotechnology Safety, Damascus, Syria
- 2006 "Bioinformatics Workshop " that was held in the Dead Sea-Jordan (May 29- 30, 2006)
- 2006 Workshop on Bioinformatics (Cornel University, Ethica, NY, USA: using database for gene sequencing and possible application in the Dead Sea region).
- 2006 The Second International Water Reuse Conference, June 6-9 2005, Amman, Jordan.
- 2007 Kinetics of phenol biodegradation from aqueous solution using Ewingella Americana, 5th Int. Conference for Biological Sciences, Tanta University,

Tanta, Egypt.

- 2009 Chemical composition and antibacterial activities of essential oil of Thymus Capitates from Jordan. Programme and abstract book: 23rd Malaysian Society of Pharmacology and Physiology Scientific Meeting. 12-13 May 2009. Kuala Lumpur. 92
- 2009 Scientific Week at Science Faculty, Mutah University, Karak, Jordan (Chairman of the Scientific Week)
- 2010 –May1st: Materials in Jordan: Progress, Princess Sumaya University For Technology, Amman- Jordan: Sponsored by Alexander vHumboldt (Stiftung / Foundation
- 2010 Chlorination Treatment Quality and Its Impact on Gram Negative Bacterial Composition of Recycled Wastewater" Khaled Khleifat et al. (2010). International Sustainable Water And Wastewater Management Symposium (USAYS), Konya, Turkey
- 2013 Visiting Professor, IIT, Chicago, USA, invited by Prof. Ben Stark (two weeks) to give lectures about bacterial hemoglobin (Oct 5th –Oct 17th)
- 29.3-2.4.2015 General Conference of the union of Arab Universities, Lebanon cycle, Beirut, Lebanon
- 11-12 June 2015 Enhancing Quality Assurance Management in Jordanian Universities,
  - EQuAM-Training on internal Quality Assurance Management, Sapienza University, Rome, Italy
- 2016 10<sup>th</sup> Euro conference for Biometals, Dresden, Germany
- 2019 Workshop to discuss the research results: Development of sustainable food production tools in the Mediterranean region using microbes (SUPREME), Cyprus, Nicosia 10.6.2019
- 2019 PRC 2019 Essential Oil OF Centaurea Damascena Aerial Parts, Antibacterial and Synergistic Effects. Universiti Sultan Zainal Abidin (UniSZA), Kuala Terengganu, Malaysia
- 2021 Enabling barley production in arid soils by only exploiting the indigenous microbial biodiversity. By : GLOBAL SYMPOSIUM ON SOIL BIODIVERSITY, FAO HQ | Rome, Italy By: Anna Rosa Sprocati , Patrizia

Paganin, Chiara Alisi , Priscilla Casale , Giada Migliore , Flavia Tasso ,

Giuseppina Falasca, Tayel El- Hasan, Khaled Khleifat and Giovanni De Giudici.

# LEARNED SOCIETIES

# Membership of:

- Editorial Board of Online Journal of Biological Sciences, Pakistan, 2001-2004
- American Association for the Advancement of Science (AAAS) 2003-2005
- American Chemical Society (ACS) 2004-2005
- American Society for Microbiology (ASM) 2003-2005
- Editorial Board of Mutah Lil-Buhuth Waddirasaat, Mutah University, Jordan (2008-2010)
- Scientific Committee Materials in Jordan Workshop (2010), Princess Sumaya University For Technology, Amman-Jordan: Supported by Alexander von Humboldt (Stiftung/Foundation

# ANONYMOUS REVIEWER for JOURNALs

- Enzyme and Microbial Technology, elsiever Publisher
- Journal of Hazordous Materials, elsiever Publisher
- Current Microbiology (Springer-Verlag, USA)
- Biochemical Engineering Journal, elsiever Publisher
- Online Journal of Biological Sciences (ANSInet)
- Mutah Lil-Buhuth Waddirasaat, Mutah University, Jordan
- Journal of Chemical Engineering
- Jordan Journal of Biological Sciences
- African J. Food Science
- Journal of Basic Microbiology (Wiley and sons)
- Foodborne Pathogens and Disease, USA
- Water Resource Technology , Elsevier Publisher
- Biochemical Journal
- Bioremediation

•A reviewer for several Ph.D. thesis's from outside Jordan (One of them India Institute of Technology

•A reviewer for more than 50 promotions to the rank of professor and associate professor of outside Jordan

# COURSES TAUGHT

- ✓ Advanced Microbial Physiology
- ✓ Advanced Diagnostic Microbiology
- ✓ General Microbiology
- ✓ Diagnostic Microbiology
- ✓ General Biology (Section 1 and 2)
- ✓ Practical General Biology 1 & 2
- ✓ Biology for Nursing Students

- ✓ Genetics and Microbial Genetics
- ✓ Pharmaceutical Microbiology
- ✓ Advanced Pharmaceutical Microbiology
- ✓ Cell Biology
- Molecular Biology
- ✓ Practical Microbiology,
- ✓ Practical Medical
- ✓ Microbiology for Nursing Student

- ✓ Practical Molecular Biology ✓ Nutrition (Sohar University, Oman)
- ✓ Practical Biochemistry (IIT, Chicago, USA)
- ✓ Environmental Science and Medical Biology (At Robert Morris College, Chicago, USA)

## <u>Skills</u>

- ICDL,
- Three languages (English, Turkish and Arabic)

# **AUTHOR PROFILE (SCOPUS)**

Khleifat, Khaled M. University of Mutah, Department of Biology, Karak, Jordan Author ID: 6508378475 <u>http://orcid.org/0000-0002-0216-3175</u>

Documents 85

Citations:: 1214 total citations by 692 documents *h*-index: 23

# AUTHOR PROFILE (Google Schoolar)

Khleifat Khaled		
<u>Citations</u>	2255	1350
<u>h-index</u>	31	25
<u>i10-index</u>	70	64

# LIST OF PUBLICATIONS:

#### Dr. Khaled M. Khleifat

- 1. Al-Qaisi, T., Al-Rawadeih, S., Alsarayreh, A., , <u>Al Qaisi</u>, Y., Al-limoun, M., , Alqaraleh, M.,Khleifat, K. (2024). The effects of Anchusa azurea methanolic extract on burn wound healing: histological, antioxidant, and anti-inflammatory evaluation. Burn (accepted)
- Qaralleh, H., Saghir, S. A. M., Al-Limoun, M. O., Dmor, S. M., Khleifat, K., Al-Ahmad, B. E. M., ... & Alqahtani, A. M. (2024). Effect of Matricaria aurea Essential Oils on Biofilm Development, Virulence Factors and Quorum Sensing-Dependent Genes of Pseudomonas aeruginosa. *Pharmaceuticals*, 17(3), 386.
- **3.** Alqaraleha,M., Kasabrib, V., Muhanac, F., Al-Najjar, BO., Khleifat, KM (2024). Evaluation of the antiproliferative activity and molecular doc king of selected branched fatty acids. J. Med. Pharm. Chem. Res. 6, 1340-1353
- Al Qaisi, Y., Alfarrayeh, I., Alsarayreh, A., Khleifat, K., & Abu-Nwas, N. (2024). Assessment of Antioxidant Potential, Cytotoxicity, and Anticancer Activity of Methanolic Extracts from Selected Wild Medicinal Plants. *Phytomedicine Plus*, 100534.
- 5. Abu Hajleh, M. N., Al-limoun, M., Al-Tarawneh, A., Hijazin, T. J., Alqaraleh, M., Khleifat, K., ... & Al-Dujaili, E. A. (2023). Synergistic Effects of AgNPs and Biochar: A

Potential Combination for Combating Lung Cancer and Pathogenic Bacteria. *Molecules*, 28(12), 4757.

- Al-Ekaid, N. M., Al-Samydai, A., Al-deeb, I., Nsairat, H., Khleifat, K., & Alshaer, W. (2023). Preparation, Characterization, and Anticancer Activity of PEGylated Nano Liposomal Loaded with Rutin against Human Carcinoma Cells (HT-29). *Chemistry & Biodiversity*, 20(11), e202301167.
- Khleifat, K. M., Al-Tawarah, N. M., Al-Kafaween, M. A., Al-Ksasbeh, W., Qaralleh, H., Alqaraleh, M., ... & Mohd Hilmi, A. B. (2023). Memory Enhancing and Neurogenesis Activity of Honey Bee Venom in the Symptoms of Amnesia: Using Rats with Amnesialike Alzheimer's Disease as a Model. *Current Alzheimer Research*, 20(3), 190-201.
- 8. Al-khlifeh, E., Saidat, N., Khleifat, K., & Al Qaisi, Y. (2023). Phytochemical profile and in vitro protoscolicidal effects of Juniperus phoenicea L., Calotropis procera (Aiton) Dryand, and Artemisia judaica L. against Echinococcus granulosus cysts. *Journal of Pharmacy & Pharmacognosy Research*, *11*(4), 635-650.
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#### **Teaching Philosophy**

I adore instructing! As a biologist, I firmly feel that it is my ethical responsibility to not only support but also actively push my students in order to assist them realize the following objectives: First, to clear up some of the students' misconceptions about biology. Next, to teach

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them the main concepts I believe in, which are, of course, those that are backed up by academic logic and reason. Finally, to instill in them a love for the subject at hand, which will motivate them to participate in all tasks, experiments, and skills related to the subject.

Through my academic career, I always turned to communication in education; in other words, I encouraged my pupils to be skeptical of any idea, notion, or piece of fresh information before embracing it. Instead, I have always urged that they debate, discuss, and raise objections to every notion and topic. In other words, I detest spoon-feeding and encourage my students to pursue academic specialties that emphasize research and academic success. I usually try to teach the course's ABCs as a crucial stage in the classroom procedure, regardless of the level. I really believe that imparting clear, fundamental guidelines to students at the beginning of each session will make for an outstanding experience they won't soon forget. I always like to Go Easy because of this! particularly for novices.

I think that students who understand and study the fundamentals in a solid way will improve their own learning styles through motivation and self-study. They will learn from this not to be apathetic recipients. Students are expected to leave my class with a foundational understanding of biology that will let them engage, construct, and develop ideas.

The use of brainstorming is a fantastic strategy. This will help us collect as many ideas, thoughts, and concepts as we can. This will also instill a sense of difficulty, especially when certain questions that may come up during discussions are offered to the students to discuss in groups and help them think of new biological topics and specialties. These subjects and queries will also be developed into concepts for in-depth group discussion. High achievers will serve as coteachers who will facilitate good interpersonal relationships with other pupils. Low-achieving students should never be left alone and should always be watched. Giving them easy chores is crucial because they must be treated as little children who require special care and attention. They will always be motivated to do this. The most significant are exams. Exams should take into account his teaching qualities by allowing him to give presentations and experience being a teacher in order to evaluate more than just a student's performance. Finally, they can be the students' choice by oral testing them after they have indicated the areas they are interested in. This is because home exam portions allow students to research and study. Of course, there are occasions when we must be adaptable and occasionally change our teaching and learning strategies. There are other areas outside the classroom and the library where people can learn. There ought to be more places, like the garden and other educational institutions and businesses t hat provide cutting-edge labs and equipment.