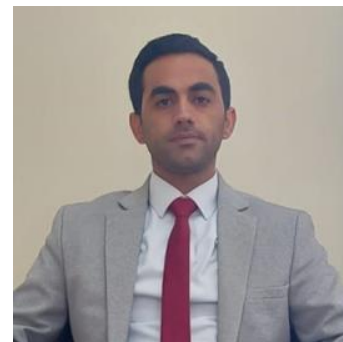




CURRICULUM VITAE



**Full name: Mohammad Abdulraheem Mohammad
AL-Kafaween**

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Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57215665063>

ORCID: <https://orcid.org/0000-0001-7571-1227>

Researchgate: <https://www.researchgate.net/profile/Mohammad-Al-Kafaween>

1. Personal Data

Date of Birth: October 25, 1988
Place of Birth: Al-Karak – Jordan
Nationality: Jordanian
Marital Status: Married

2. Education

- Ph.D. (Molecular microbiology and cell biology) 2021, Universiti Sultan Zainal Abidin–UniSZA (Malaysia), Kuala Terengganu, Malaysia
- M.Sc. (Biology/Microbiology) 2015, Mu'tah University, Al-karak, Jordan
- B.Sc. (Plant Production) 2011, Mu'tah University, Al-karak, Jordan



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3. Ph.D. Dissertation

Antibacterial and Antibiofilm Activities of Malaysian Trigona Honey Against Pseudomonas aeruginosa and Streptococcus pyogenes, Universiti Sultan Zainal Abidin–UniSZA (Malaysia), Kuala Terengganu, Malaysia

Languages

- Arabic
- English

4. Employment**Academic Positions**

- Assistant Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan. June 20, 2021 – till now

Work Experiences

- 2011-2013; Teacher at Al-Karak Secondary Schools (Biology).
- 2013-2014; Teacher at Fursan Al-Karak Academy (Biology).
- 2013-2015; Research assistant at Mu'tah University (Faculty of Science).
- 2016-2018; Research assistant at Faculty of Health Sciences (Molecular biology) (UniSZA), Malaysia.
- 2018-2020; Research assistant at Faculty of Health Sciences (Microbiology). (UniSZA), Malaysia.

Administrative Positions

Not Applicable

5. Research Interests

- Anti-bacterial, anti-biofilm and anti-virulence activities of natural products
- Honey, Propolis, Probiotics, Antibiotics, Medicinal plants, Natural product
- Microcolony and Biofilm and Quorum sensing
- Gene expression and Microarray
- Antibacterial, Anti-biofilm and Anticancer activities of thymoquinone and Curcumin against gram-positive and gram-negative bacteria.
- Antibiotic susceptibility and differential gene expression profiling of planktonic and biofilm of gram-positive and gram-negative bacteria
- Physicochemical, phytochemical of honey



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6. Membership in Scientific Societies and Associations

- Member, Member of Microbiology Society, UK
- Membership in Scientific Societies and Associations

7. Honors and Awards

Not applicable

8. Fellowships and Scholarships

Not Applicable

9. Teaching Experience

- *Graduate Courses*

Not applicable

- *Undergraduate Courses*

- Microbiology
- Molecular biology
- Cell biology
- Anatomy and Physiology 1
- Anatomy and Physiology 2
- Physiology for Nurses
- Anatomy for Nurses
- Microbiology for Nurses
- Pharmaceutical Microbiology 1
- Pharmaceutical Microbiology 2
- Pharmaceutical Microbiology lab
- Biochemistry for nurses
- Biology

Field of Specialization

- Molecular biology
- Microbiology
- Cell biology

10. Supervision of Graduate Research

- **Master Students (Co-SV)**
 1. Hala, antibacterial and antibiofilm activity of selected Jordanian honey.
 2. Sajeda, evaluation of antibacterial and antibiofilm activity of honey and Nigella Sativa L. seed



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- **PhD Students (Co-SV)**

1. Hannen Almomani , Malnutrition during pregnancy and its association with obesity, gestational diabetes, periodontal and dental diseases in Jordan (USM, Malaysia (ongoing)

1. Maha Raji Alshamailah, Malnutrition during pregnancy and its association with obesity, gestational diabetes, periodontal and dental diseases in Jordan (USM, Malaysia (ongoing)

11. Grants

Not Applicable

12. Patents

Not Applicable

13. Membership of Committees

- **National and International**

Not Applicable

- **University**

- *The Scientific Research Committee at the School of Pharmacy, Al-Zaytoonah University of Jordan (member), (2021 – present)*
- *The Committee for Cultural, Social and Sport activities, a Faculty committee (member).*

14. Professional and Scientific Meetings

Scientific Meetings Organized

- Not Applicable

Participation in Scientific meetings

- *International Conference on Pharmaceutical Research and Pharmacy Practice Cum 14th Iium-Mps Pharmacy Scientific Conference, Hotel Istana, Kuala Lumpur, Malaysia (19 Oct 2019 - 20 Oct 2019).*
- *International Congress of the Tunisian Society of Biological Sciences (Atsb) Held in Sousse, Tunisia 25-28-March-2019.*
- *The First Rmutt Food Innovation and Smart Farm International Conference, Rajamangala University of Technology Thanyaburi, Thailand, Thailand (05 Jul 2019 - 06 Jun 2019).*



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- *International Community Health Conference 2017, UniSZA, Malaysia (07 Oct 2017 - 09 Oct 2017).*
- *Al-Zaytoonah International Pharmaceutical Conference 2022 (ZIPC2022) Amman, Jordan (promising prospects in pharmaceutical sciences), Jordan 18-20-octobar-2022.*

15. Participation in or organization of curricular and/or extra-curricular activities

Not Applicable

16. Publications

Provide numbered lists of:

- Papers in refereed journals
1. **Al-Kafaween MA**, Hilmi AB, Jaffar N, Al-Jamal HA, Zahri MK, Jibril FI. Antibacterial and Antibiofilm activities of Malaysian Trigona honey against *Pseudomonas aeruginosa* ATCC 10145 and *Streptococcus pyogenes* ATCC 19615. *Jordan Journal of Biological Sciences*. 2020. 13(1):69-76. **Main author. Indexed by: Scopus Q2.**
 2. **Al-Kafaween MA**, Hilmi AB, Al-Jamal HA, Elsahoryi NA, Jaffar N, Zahri MK. *Pseudomonas Aeruginosa* and *Streptococcus Pyogenes* Exposed to Malaysian Trigona Honey In Vitro Demonstrated Downregulation of Virulence Factor. *Iranian Journal of Biotechnology*. 2020.18(4):e2542. **Main author. Indexed by: SCIE, ISI and Scopus Q3**
 3. **Al-Kafaween MA**, Al-Jamal HA, Hilmi AB, Elsahoryi NA, Jaffar N, Zahri MK. Antibacterial properties of selected Malaysian Tualang honey against *Pseudomonas aeruginosa* and *Streptococcus pyogenes*. *Iranian Journal of Microbiology*. 2020.12(6):565. **Main author. Indexed by: Scopus Q3.**
 4. **Al-Kafaween MA**, Khan RS, Hilmi AB, Ariff TM. Characterization of biofilm formation by *Escherichia coli*: An in vitro study. *Journal of Applied Biology & Biotechnology*. 2019. 7(03):17-9. **Main author. Indexed by: Scopus Q3.**
 5. **Al-Kafaween MA**, Mohd Hilmi AB, Jaffar N, Nagi Al-Jamal HA, Zahri MK, Amonov M, Mabrouka B, Elsahoryi NA. Effects of Trigona honey on the Gene Expression Profile of *Pseudomonas aeruginosa* ATCC 10145 and *Streptococcus pyogenes* ATCC 19615. *Jordan Journal of Biological Sciences*. 2020. 13(2): 133 – 138. **Main author. Indexed by: Scopus Q2.**
 6. **Al-Kafaween MA**, Hilmi AB, Al-Jamal HA, Jaffar N, Al-Sayyed H, Zahri MK. Effects of Selected Malaysian Kelulut Honey on Biofilm Formation and the Gene Expression Profile of *Staphylococcus Aureus*, *Pseudomonas Aeruginosa*



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and Escherichia Coli. Jordan Journal of Pharmaceutical Sciences. 2021.14(1):1-18. **Main author. Indexed by: Scopus Q3**



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7. **Al-Kafaween MA.**, Hilmi AB, Al-Jamal HA, Rania MA, Nour AE, Hiba A. Potential Antibacterial Activity of Yemeni Sidr Honey Against *Pseudomonas aeruginosa* and *Streptococcus pyogenes*. *Anti-Infective Agents*. 2021. 19(4): 1-15. **Main author. Indexed by: Scopus Q4.**
8. **Al-Kafaween MA**, Al-Jamal HA, Hilmi AB. Antibacterial activity of selected varieties of Malaysian honey against *Escherichia coli*: A comparative study. *The International Arabic Journal of Antimicrobial Agents*. 2021. 11(1):1-13. **Main author. Indexed by: Scopus Q4**
9. **Al-Kafaween MA**, Al-Jamal HA, Hilmi AB. Evaluation of antimicrobial and antibiofilm activities of stingless bee *Trigona* honey (Malaysia) against *Streptococcus pneumoniae*. *The International Arabic Journal of Antimicrobial Agents*. 2021. 11(2):1-10. **Main author. Indexed by: Scopus Q4**
10. **Al-Kafaween MA**, Hilmi AB, Khan RS, Bouacha M, Amonov M. Effect of *Trigona* honey on *Escherichia coli* cell culture growth: In vitro study. *Journal of Apitherapy*. 2019.1;5(2):10-17. **Main author. Another index**
11. **Al-Kafaween MA**, Hilmi AB, Jaffar N, Al-Jamal HA, Zahri MK. Determination of optimum incubation time for formation of *Pseudomonas aeruginosa* and *Streptococcus pyogenes* biofilms in microtiter plate. *Bulletin of the National Research Centre*. 2019.43(1):1-5. **Main author. Another index**
12. **Al-Kafaween MA**, Hilmi AB, Khan RS. In Vitro Investigation on the Effectiveness of *Trigona* Honey against Biofilm Formation by *Escherichia coli*. *EC Microbiology*. 2020. 16(4): 83-89. **Main author. Another index.**
13. **Al-Kafaween MA**, Hilmi AB, Khan RS, Mabrouka B. Effect of Growth Media and Optical Density on Biofilm Formation by *Staphylococcus epidermidis*. *EC Microbiology*. 2019. 15(4): 277-282. **Main author. Another index.**
14. Iman B, Abdullah R, **Al-Kafaween MA**, Malnutrition in Hemodialysis Patients in Al-Karak Governorate in Jordan. *International Journal of Multidisciplinary Sciences and Advanced Technology*, 2021. 2(6): 34–41. **Co-author. Another index.**
15. **Al-Kafaween MA** and Hilmi AB. *Pseudomonas aeruginosa* strain: ATCC 10145 Genome sequencing and Sequence Read Archive (SRA). SRR12680080. www.ncbi.nlm.nih.gov/bioproject/PRJNA533327.,<https://www.ncbi.nlm.nih.gov/sra/?term=prjna533327>, 2018-2020. **Main author. NCBI Project.**
16. **Al-Kafaween MA**, Al-Sayyed HF, Elshahory NA, Al-Groom RM, Alshabatat IM. A Review of Confirmed Cases, Deaths and Recovered of Novel Coronavirus Based on Current Evidence: A Mini. *World*.3(244,107):1,114,297. **Main author. Another index**
17. Al-Sayyed HF, Abu-Qatouseh LF, Malkawy M, Al-Wawi S, **Al-Kafaween MA**. Extracts of Jordanian Date Palm Fruit (*Phoenix Dactylifera* L.) Inhibit Human Mammary Adenocarcinoma (MCF-7) Cells In Vitro by Inducing Cell Viability. *Current Research in Nutrition and Food Science*. 2021; 27;9(2):423-30. **Co-author. Indexed by: Scopus Q3**
18. **Al-Kafaween MA**, Hilmi ABM, Al-Jamal HAN. The Beneficial Effects of Stingless Bee *Kelulut* Honey Against *Pseudomonas aeruginosa* and *Streptococcus pyogenes* Planktonic and Biofilm. *Tropical Journal of Natural Product Research*. 2021; 5(10):1788-1796. **Main author. Indexed by: Scopus Q4.**



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19. Mousa K. M, Khaled MK, **Al-Kafaween MA**, Razan S, Moath A, Haitham Q, Amjad TA, Muhamad O, Tayel E, Tayel H, Salah J, Nabeel J, Malik A, Hamid ANJ. Biodegradation of Phenol by Bacillus simplex: Characterization and Kinetics Study. Applied Environmental Biotechnology. 2021; 6(2): 1-12. **Co-author. Indexed by: Scopus Q1.**
20. **Al-Kafaween MA** and Abu Bakar Mohd Hilmi. Evaluation of the effect of different growth media and incubation time on the suitability of biofilm formation by Pseudomonas aeruginosa and Streptococcus pyogenes. Applied Environmental Biotechnology. 2022. 6(2): 19-26. **Main author. Indexed by: Scopus Q1.**
21. Bouacha M, Besnaci S, Boudiar I, **Al-Kafaween MA**. Impact of Storage on Honey Antibacterial and Antioxidant Activities and their Correlation with Polyphenolic Content. Tropical Journal of Natural Product Research. 2022; 6(1):34-39. **Co-author. Indexed by: Scopus Q4.**
22. Bouacha M, Boudiar, Akila Ab, **Al-Kafaween MA**, Khallef M. The Antimutagenic Effect Of Multifloral Honey In Salmonella/Microsomal Assay And Its Correlation With The Total Polyphenolic Content. Journal of Microbiology, Biotechnology and Food Sciences. 2022;11(6):1-5. **Co-author. Indexed by: Scopus Q3.**
23. **Al-Kafaween MA**, Al-Jamal HAN, Hilmi ABM. De novo whole genome sequencing data of Pseudomonas aeruginosa ATCC 10145TM, an opportunistic pathogen. Tropical Journal of Natural Product Research. 2022; 6(2):176-179. **Main author. Indexed by: Scopus Q4.**
24. **Al-Kafaween MA** and Al-Jamal HA. A Comparative Study of Antibacterial and Antivirulence Activities of Four Selected Honeys to Manuka Honey. *Iranian Journal of Microbiology*. 2022;14(1): 238-251. **Main author. Indexed by: Scopus Q3.**
25. Khleifat, K.M., Qaralleh H., **Al-Kafaween MA**, Al-limoun, M.O., Alqaraleh, M., Sabha, A.E.A., Shadid, K.A., Alqaisi, K., Buqain, R.A., Karamah, N., Al-Jamal, H.A.N., Amonov, M., Abed, A. 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. 2021. 6(1): 42-50. **Co-author. Indexed by: Scopus Q1.**
26. Mabrouka B, Sana B, Ines B, **Al-Kafaween MA**. Screening of the antibacterial and antibiofilm effect of multifloral honey against multidrug-resistant Pseudomonas aeruginosa. *Acta Microbiologica Hellenica*. 2022; 67(1), 69-79. **Co-author. Indexed by: Scopus Q4.**
27. **Al-Kafaween MA**, Sini, M.A., Al-Jamal, HAN. Antibiotic Susceptibility and Differential expression of virulence genes in *Staphylococcus aureus*. Applied Environmental Biotechnology. 2022; 7(1):6-15. **Main author: Indexed by: Scopus Q1.**
28. Khaled K, Mousa M, Moath A, Mutaz A, Ibrahim A, Yaseen Q, Ahmad S. **Al-Kafaween MA**. Biodegradation modeling of phenol Using Curtobacterium flaccumfaciens as Plant-Growth-Promoting bacteria. *Heliyon*, 2022; 8(9): e10490.1-10., **Co-author: Indexed by: SCIE, ISI and Scopus Q1. Impact factor: 3.8.**



29. Khaled MK, Marwa K, **Al-Kafaween MA**, Moath Q, Muhamad O, Talal S, Husni S, Osama N, Amjad T, Haitham Q, Maha N, Malik A, Hamid J. Studying the relationship between the women hormonal activity and the distribution of bacterial vaginosis and their antibiotics susceptibility. *Journal of Applied Pharmaceutical Science*.2022;12(12),105-116. **Co-author. Indexed by: Scopus Q2.**
30. **Al-Kafaween MA**, Hilmi AB, Al-Jamal HAN. Physicochemical and Therapeutic Properties of Malaysian Stingless Bee Kelulut Honey in Comparison with Yemeni Sidr Honey. *Anti-Infective Agents*. 2022;20(5),1-9. **Main author: Indexed by: Scopus Q4.**
31. **Al-Kafaween MA**, Hidaeyh K, Rania MG. A Comparative Study of Antibacterial Activity of Citrus and Jabali Honeys with Manuka Honey. *Applied Environmental Biotechnology*. 2022; 7(1): 28-37. **Main author: Indexed by: Scopus Q1.**
32. **Al-Kafaween MA**, Alwahsh, M, Mohd Hilmi AB, Abulebdah, D. Physicochemical Characteristics and Bioactive Compounds of Different Types of Honey and Their Biological and Therapeutic Properties: A Comprehensive Review. *Antibiotics* 2023(2):1-34. **Main author: Indexed by: SCIE, ISI and Scopus Q1. Impact Factor: 5.22**
33. **Al-Kafaween MA**, Rania MG, Mohd Hilmi AB. Comparison of the Antimicrobial and Antivirulence Activities of Sidr and Tualang honeys with Manuka Honey against *Staphylococcus aureus*. *Iranian Journal of Microbiology*. 2023; 15(1):89-101. **Main author: Indexed by: Scopus Q3.**
34. Sini MA, **Al-Kafaween MA**, Rania MG, Mohd Hilmi AB. Comparative in Vitro Activity of Various Antibiotic against Planktonic and Biofilm and the Gene Expression Profile in *Pseudomonas aeruginosa*. *Aims Microbiology*. 2023; 9(2):313-331. **Co-author: Indexed by: Scopus Q2.**
35. Khaled MK, Nafe MT, **Al-Kafaween MA**, Weam K, Haitham Q, Moath Q, Khawla DH, Yousef MA, Ahmad ZA, Yaseen TA, Mohd Hilmi AB. Memory enhancing and neurogenesis activity of Honey Bee Venom in symptoms of amnesia: using rats with Alzheimer-like disease as a model. *Current Alzheimer Research*. 2023: 20;(3):190-20. SCIE, ISI and Scopus Q1.

17. Reviewing Responsibilities

1. Reviewer, reviewer for Iranian Journal of Microbiology.
2. Reviewer, reviewer for BMC Microbiology.
3. Reviewer, reviewer for Journal of Applied Pharmaceutical Science
4. Reviewer, reviewer for Journal of Sustainability Science and Management
5. Reviewer and Editorial board member for the Cell Biology Journal.
6. Reviewer and Editorial board member for the Biochemistry and Molecular Biology Journal.
7. Reviewer and Editorial board member for the IJMSAT Journal.
8. Reviewer for Bulletin of the National Research Centre

Books and Book Chapters



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- Not Applicable

- Conference Presentations

- Not Applicable

- Reports

- Not Applicable