



Dr. Manal Hadi Ghaffoori Kanaan. PhD Vet. public health,

Food microbiology and food safety.

Department of Agriculture,

Technical Institute of Suwaria,

Middle Technical University, Baghdad, Iraq.

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Academic Qualifications:

Ph.D. in Meat hygiene (2017) Department of public health/ College of Veterinary Medicine/University of Baghdad, Iraq.

Dissertation title: Antimicrobial Efficiency of Ozonated Water As An Intervention Against Food-Borne Pathogen *Campylobacter jejuni* Contaminating Chicken Meat

M.Sc. in Milk and dairy products hygiene (2013) Department of public health/ College of Veterinary Medicine/University of Baghdad, Iraq.

Thesis title: Isolation and Identification of Methicillin-resistant *Staphylococcus*

aureus (MRSA) in Locally Produced Raw Milk and White Soft Cheese in Baghdad Province.

B.Sc. in Veterinary science (1996)/College of Veterinary Medicine/University of Baghdad, Iraq.

Teaching in higher education:

Subject	Stage	Section	College/Institute	Year
Management	First	Department of Accounting	Technical institute of Suwaira/ middle technical university	2013-2014
Animal Production	First	Agricultural department	=	2013-2014
Computer Applications	First	Agricultural department	=	2014-2015
Computer Applications	First	Agricultural department	=	2015-2016
Anatomy	First	Nursing department	=	2016-2017
Microbiology	First	Nursing department	=	2016-2017
Anatomy	First	Nursing department	=	2017-2018
Microbiology	First	Nursing department	=	2017-2018
Nutrition	Second	Nursing department	=	2017-2018
Anatomy	First	Nursing department	=	2018-2019
Microbiology	First	Nursing department	=	2018-2019
Nutrition	Second	Nursing department	=	2018-2019
Anatomy	First	Nursing department	=	2019-2020
Microbiology	First	Nursing department	=	2019-2020
Food analysis	First	Agricultural Section	=	2019-2020
Anatomy	First	Nursing department	=	2020-2021
Microbiology	First	Nursing department	=	2020-2021

Animal Production	First	Agricultural department	=	2020- 2021
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Professional Skills

In the field of Veterinary science and Public health:

- Proficient in the use of various microscopes, sample preparation, dyeing and imaging.
- Experienced in analysis of natural products using HPLC techniques
- Experienced in the isolation of different species of bacteria from various types of food.
- Experienced in the identification of different genus of bacteria using various biochemical tests.
- Experienced in the identification of bacteria using various Kits.
- Experienced in the antibiotic susceptibility tests.

- **Association Memberships**

- Association of Veterinarians

List of publications:

1. AL-Shammary, Ali Hassan Ahmed, and Manal Hadi Ghaffoori Kanaan. "Detection of methicillin or multidrug resistant Staphylococcus aureus (MRSA) in locally produced raw milk and soft cheese in Baghdad markets." *The Iraqi Journal of Veterinary Medicine* 37.2 (2013): 226-231.
2. Ghaffoori, Manal Hadi. "Prevalence of Campylobacter jejuni In Chicken Meat Marketed In Baghdad Province." *Int. J. Adv. Res. Biol. Sci* 4.6 (2017): 1-11.
3. Kanaan, M. H., and Hawazin Thamir Khashan. "Prevalence of multidrug resistant thermotolerant species of Campylobacter in Retail Frozen Chicken meat in Baghdad Province." *Curr Res Microbiol Biotechnol* 6.1 (2018): 1431-1440.
4. Kanaan, M. H. (2018). Biotyping and Resistotyping of Campylobacter Isolates Recovered from Frozen Chicken Meat Sold in Baghdad Province. *International Journal of Science and Research*, 7(3): 304-306
5. Kanaan, M. H. (2018). Assessment The Effect of Ozonated Water on *Campylobacter jejuni* Isolates Recovered from Positive Samples of Poultry Products Retailed in Baghdad Province. International Scientific Conference of Medical and Health Specialties/ Middle Technical University.
6. Kanaan, Manal HG. "Antibacterial effect of ozonated water against methicillin-resistant Staphylococcus aureus contaminating chicken meat in Wasit Province, Iraq." *Veterinary world* 11.10 (2018): 1445.

7. Kanaan, Manal Hadi Ghaffoori, and Amer Jebur Obayes Al-Isawi. (2019). "PREVALENCE OF METHICILLIN OR MULTIPLE DRUG-RESISTANT STAPHYLOCOCCUS AUREUS IN CATTLE MEAT MARKETING IN WASIT PROVINCE. *Biochemical and cellular archives*, 19 (1): 495-502.
8. Kanaan, Manal Hadi Ghaffoori, and Sura Saad Abdullah. "Knowledge and Attitudes Linked to Black Fever among Samples of Citizens in Some Regions of Wasit Province." *Current Research in Microbiology and Biotechnology* 7.3 (2019): 1686-1691.
9. Kanaan, Manal HG. (2019). Meat Bio Preservation as a Promising Method in Food Technology (short editorial). *EC VETERINARY SCIENCE*, 4 (3):1.
10. Kanaan, Manal HG. "Bacteriophages as Biocontrol Measures in the Food Industry." *EC Veterinary Science ECO* 2 (2019): 01-03.
11. Kanaan, Manal Hadi Ghaffoori, and Sura Saad Abdullah. (2019). Methicillin-Resistant Staphylococcus Aureus as A Superbug Foodborne Pathogen. LAP LAMBERT Academic Publisher; ISBN: 978-613-9-94418-7.
12. Kanaan, Manal Hadi Ghaffoori, and Mushtaq Talib Abdulwahid. "Prevalence Rate, Antibiotic Resistance and Biotyping of Thermotolerant Campylobacter Isolated from Poultry Products Vended in Wasit Markets." *Current Research in Nutrition and Food Science Journal* 7.3 (2019): 905-917.
13. Kanaan, Manal HG. (2020). Microbiological Competition as Complementary Intervention to Combat Poultry Colonization with Pathogens at Primary Production. *EC VETERINARY SCIENCE*, 5 (2):1.
14. Kanaan, Manal Hadi Ghaffoori, and Fatten Ahmad Mohammed. "ANTIMICROBIAL RESISTANCE OF CAMPYLOBACTER JEJUNI FROM POULTRY MEAT IN LOCAL MARKETS OF IRAQ." *Plant Archives* 20.1 (2020): 410-415.
15. Kanaan, Manal HG. (2020). Preliminary Interventions Against the Introduction of Pathogens to the Poultry Herd During Primary Production. *EC VETERINARY SCIENCE*, 5 (3):1.
16. Kanaan, M. H. G., Al-Shadeedi, S. M., Al-Massody, A. J., & Ghasemian, A. (2020). Drug resistance and virulence traits of *Acinetobacter baumannii* from Turkey and Chicken Raw Meat. *Comparative Immunology, Microbiology and Infectious Diseases*, 101451.

17. Kanaan, M. H.G., Tarek, A. M. (2020). Clostridium botulinum, A FOODBORNE PATHOGEN AND ITS IMPACT ON PUBLIC HEALTH. *Ann Trop Med & Public Health.*, 23 (5): 346-359.
18. Kanaan, M. H., Anah, S. A., Jasim, G. A., & Ghasemian, A. (2020). In-vitro protoscolicidal and immunomodulatory effects of Cinnamomum camphora and Ziziphora tenuior against Echinococcus granulosus protoscolices. *Reviews in Medical Microbiology*, 2021, 32:45- 50.
19. Al-Isawi, A. J. O., Rhma, M. I., & Kanaan, M. H. G. (2020). INHIBITORY EFFECTS OF EMULSIFYING SALTS STPP AND NACL ON KLEBSIELLA PNEUMONIAE CONTAMINATION SOFT CHEESE COW'S SAMPLES COLLECTED FROM VENDED IN BABYLON GOVERNORATE, IRAQ. *Plant Archives*, 20(2), 1474-1477.
20. Kanaan, Manal Hadi Ghaffoori, and Sura Saad Abdullah. (2020). ASSESSMENT OF THE EFFICACY OF AQUEOUS OZONE ON THE BIOAVAILABILITY OF RESIDUAL TRIHALOMETHANES IN TREATED BROILER'S MEAT, International Scientific and Vocational Studies Congress – Engineering (BILMES EN 2020).
21. Sura Saad Abdullah & Kanaan, Manal Hadi Ghaffoori (2021). Healing By Meditation, First edition. January 4, 2021.
22. Kanaan, Manal Hadi Ghaffoori (2021). The Effect of Animal Production Development on Public Health. *EC Veterinary Science* 6 (5) 01-02.
23. Kanaan, M. H. G., Tarek, A. M., & Abdullah, S. S. (2021, June). Knowledge and attitude among samples from community members, pharmacists and health care providers about antibiotic resistance in Al-Suwaria city/Wassit province/Iraq. In *IOP Conference Series: Earth and Environmental Science* (Vol. 790, No. 1, p. 012059). *IOP Publishing*
24. Kanaan, Manal HG. (2021). Prevalence, resistance to antimicrobials, and antibiotypes of Arcobacter species recovered from retail meat in Wasit marketplaces in Iraq. *Int. J. One Health.*, 7 (1): 142-150.
25. Kanaan, M. H. G., & Khashan, H. T. (2021). Molecular typing, virulence traits and risk factors of pandrug-resistant Acinetobacter baumannii spread in intensive care unit centers of Baghdad city, Iraq. *Reviews in Medical Microbiology*.

26. Kanaan, M., & Abdullah, S. (2021). Evaluation of aqueous Ozone as a method to combat multidrug-resistant *Staphylococcus aureus* tainting cattle meat sold in Wasit marketplaces. *Mansoura Veterinary Medical Journal*, 22(3), 117-123.
27. Kanaan, M., & Abdullah, S. (2021). EVALUATION OF THE SENSITIVITY OF MULTIDRUG-RESISTANT *STAPHYLOCOCCUS AUREUS* ISOLATES RECOVERED FROM DAIRY PRODUCTS TO PASTEURIZATION TEMPERATURES. International Science and Innovation Congress (2021).
28. Kanaan, M. H. G. (2021). The Negative Effects of Chemical Pesticides and their Consequences on Public Health and the Environment. (2021). *EC Veterinary Science*, 6 (9):28.
29. Kanaan, M., & Abdullah, S. (2021). DETERMINATION OF THE EFFECT OF OZONE TREATMENT ON PANELIST'S SENSORY EVALUATION AND PREFERENCE OF TREATED BROILER'S MEAT VI. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS – ENGINEERING (BILMES EN 2021), At: Turkey.
30. Hadi Ghaffoori Kanaan, M., Jebur Obayes Al-Isawi, A., & Ahmad Mohamme, F. (2022). Antimicrobial Resistance and Antibigram of Thermotolerant *Campylobacter* Recovered from Poultry Meat in Baghdad Markets, Iraq. *Archives of Razi Institute*, 77(1), 231-237.
31. Kanaan, Manal Hadi Ghaffoori, and Sura Saad Abdullah. (2022). Emerging Threats by *Campylobacter* on Public Health, LAP LAMBERT Academic Publisher; ISBN: 978-620-4-74990-7.
32. Mohammed, F. A., Kanaan, M. H. G., & Tarek, A. M. (2022). Assessment of the Effect of Aqueous Ozone Treatment on the Sensory Attributes of Retail Meat in the Iraqi Wasit Governorate. *Revista Electronica de Veterinaria*, 28-38.
33. Kanaan, M., & Abdullah, S. (2022). PREVALENCE OF MULTIDRUG-RESISTANT *STAPHYLOCOCCUS AUREUS* IN SOME DAIRY PRODUCTS RETAILED IN BAGHDAD PROVINCE. III. International Science and Innovation Congress, 09-12 June 2022, TURKEY.
34. Kanaan, M., & Abdullah, S. (2022). Adverse Effects of Animal Production on Environment and Public Health, LAP LAMBERT Academic Publisher; ISBN: 978-620-0-43297-1.
35. Kanaan MHG, Salim ID, Tarek AM, Abdullah SS. Assessment of the knowledge, attitude, and practice related to visceral leishmaniasis among residents of Al-

Suwaira city, Wasit Governorate, Middle East of Iraq. J Prev Med Hyg 2022;63: E429-E434. <https://doi.org/10.15167/2421-4248/jpmh2022.63.3.2573>.

36. Anas, S. M., Alam, M., Umair, M., & Kanaan, M. H. G. (2022). Strengthening of unreinforced braced masonry wall with (1) CFRP laminate and (2) mild-steel strips: innovative techniques, against close-range explosion. International Journal of Masonry Research and Innovation.
37. Kanaan, M. H. G., Khalil, Z. K., Khashan, H. T., & Ghasemian, A. (2022). Occurrence of virulence factors and carbapenemase genes in *Salmonella enterica* serovar Enteritidis isolated from chicken meat and egg samples in Iraq. *BMC microbiology*, 22(1), 1-8.

Presentations

- | No. | Presentation Title |
|-----|--|
| 1. | MRSA and its Effects on Public Health |
| 2. | Decontamination of Meat Bacterial Food Poisoning by Phage Therapy |
| 3. | Predatory Bacteria as A Promising Method to Combat Antibiotic Resistance |
| 4. | The health damage caused by rodents |
| 5. | Occupationally acquired diseases In the agricultural sector |
| 6. | Poisons and their types and impacts on health |
| 7. | Microbial hazards in food |
| 8. | Food preservation technologies |
| 9. | Isolation and diagnosis of plant pathogens |
| 10. | Foodborne illness |
| 11. | Pesticides and its impacts on public health |
| 12. | Antimicrobial Susceptibility Tests |