

**JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
Professor of Microbiolgoy and Biotechnolgoy  
Department of Biotechnology and Genetic Engineering  
& the Department of Nutrition and Food Technology

Email; [jaradatz@just.edu.jo](mailto:jaradatz@just.edu.jo)  
WEB:<http://www.just.edu.jo/jaradatz>  
Google scholar citation page;  
<http://scholar.google.com/citations?user=ktSQLdwAAAAJ&hl=en>



## **ZIAD W. JARADAT, PHD**

---

### CV HIGHLIGHTS

- Chair of the added value and food processing axis in the food security committee appointed by Minster of Higher education. 2020-2021.
- Vice Dean Faculty of Science and Arts, JUST, Sep, 2020 – Sep 2021
- Chair, Department of Nutrition and Food Technology, JUST, Aug, 2018 – Sep 2020.
- Vice Dean Faculty of Graduate Studies, JUST, March 2016 till Aug 31, 2016
- Joined JUST Sept. 2004 as Assistant Professor and promoted to Associate Professor in Sept. 2009 and to professor in Sep. 2017.
- Chairman of the Department Biotechnology and Genetic Engineering and the Department of Applied Biological Sciences since Sep. 2007 till July. 2011
- Head of Academic Affairs, Fatima College of Health Sciences (**FCHS**), Al Ain, and Abu Dhabi campuses, UAE 2011-2013.
- Head of Al Ain Campus, **FCHS**, Al Ain, UAE 2011-2014
- Head of the General Requirement Unit, **FCHS**, All campuses, 2014-2015
- Member of a committee at Ministry of Higher Education to develop standards for accreditation of Biotechnology Departments in Jordan, 2011.
- **Member of the Editorial Board**; BMC Research Notes, UK
- **Chose as a member of the Editorial board of Jordan Journal of Biological Sciences and awaiting Ministry of Higher Education final approval.**
- **Associate Editor in Chief** of International Journal of Life Science and Medical Research, Hong Kong.
- Member of the **Editorial board** of Medical Advancements in Genetic Engineering Journal, OMICS Publishing group, USA
- Member of the **Editorial board** of the International Journal of Biotechnology and Food Science

- Member of the **Editorial board** of the JSM Nanotechnology and Nanomedicine, USA.
- Supervised **10** MSc students as main advisor and **18** MSc students as co-advisor
- Examiner on **9** MSc thesis in JUST and other universities.
- Published **74** articles, Editorials, reviews, proceedings, books and chapters.
- Present research work in **36** conference posters and **4** oral presentations.
- Isolated and identified **29** strains of *Cronobacter sakazakii* from Jordan, and sequenced their 16S rRNA and deposited the **29** sequences in the **GenBank** (BMC Microbiology, 2009. 9:225) and deposited many other strains of bacteria and mold for different projects in the GenBank.
- Deposited 9 new *Cronobacter* isolates from Jordan in the Egyptian Microbial Culture Collection (EMCC).
- Obtained **18** grants as principal investigator and **15** grants as co-investigator.
- Member Elect in the **University Council**, 2009/2010 and 2018/2019. (Representing Faculty of Science).
- Prepared and taped science modules in conjunction with **MIT center for distance learning (Biotechnology Module)**. <http://blossoms.mit.edu/>; <http://blossoms.mit.edu/video/jaradat.html>
- Participated in the development of an MSc program in Integrated Water Resources Management and subsequently developed a course in Environmental Pollution in conjunction with University of Michigan, Ann Arbor and Cornell University and sponsored by **USAID**.
- Several of my published articles on pathogenicity of *Listeria monocytogenes* appeared in several news reports.
- **Publication and Citation Data**

#### Google Scholar

	All	Since 2020
Citations	3172	1443
H index	30	22
i10 index	56	44

#### EDUCATION

**09/99-08/02 Post doctoral Research Associate, (Microbiology/ Biotechnology)**  
Department of Food Science, Purdue University, West Lafayette, Indiana, USA.

**09/95-09/99 Food and Nutritional Sciences, PhD, (Microbiology/ Biotechnology),**

Department of Food Science, University of Manitoba, Winnipeg, Canada.

**01/93-05/95 Food Science, MSc, (Microbiology/Biotechnology),** Department of Food Science, University of Manitoba, Winnipeg, Canada.

**02/83-01/87 Public Health/Human Nutrition, BPHS,** Department of Public Health, Yarmouk University, Irbid, Jordan.(Ranked third among 56 graduates).

**PROFESSIONAL EXPERIENCE AND MANAGERIAL SKILLS**

**9/20- 9/21 Vice Dean;** Faculty of Science and Arts

**9/18 – 9/20 Head;** Department of Nutrition and Food Technology, JUST

**3/16 - 8/16 Vice Dean;** Faculty of Graduate Studies, JUST

**12/12-8/15 Adjunct Associate Professor;** Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, Australia

**7/11- 9/13 Head of academic Affairs;** Fatima College of Health Sciences, Abu Dhabi & Al Ain, UAE.

**7/11-7/14 Head of Al Ain Campus;** Fatima College of Health Sciences, Al Ain, UAE.

**8/14-8/15 Head of General Requirements Unit;** FCHS, Al Ain, UAE

**09/17- Professor;** Department of Biotechnology and Genetic Engineering, Faculty of Science and the Department of Food and Nutrition, Faculty of Agriculture, Jordan University of Science and Technology, Irbid- **Jordan**

**09/09 -09/17 Associate Professor;** Department of Biotechnology and Genetic Engineering, Faculty of Science and the Department of Food and Nutrition, Faculty of Agriculture, Jordan University of Science and Technology, Irbid- **Jordan**

**09/07- 7/11 Chairman;** Department of Biotechnology and Genetic Engineering and the Department of Applied Biology, Faculty of Science and Arts, Jordan University of Science and Technology, Irbid- **Jordan**

**09/2004 Assistant Professor;** Department of Biotechnology and Genetic Engineering, Faculty of Science and the Department of Food and Nutrition, Faculty of Agriculture, Jordan University of Science and Technology, Irbid- **Jordan**.

**08/02-08/04 Senior Research Scientist; Department of Research and Development, SA Scientific, Texas, USA.**

- Headed a team of scientists working on developing Lateral flow test kits for the detection of bacterial and viral antigens or antibodies in human and animal samples.
- Developed a point of care test for the detection of Feline Leukemia virus.
- Was responsible for the production, purification and testing of several antibodies against hCG and canine heartworm surface antigens in chicken, rabbits, sheep and goats.
- Prepared *Helicobacter pylori* surface antigens for the development of a test that detects anti-*H.pylori* antibodies in human serum.

**99-02 Postdoctoral Research Associate; Department of Food Science, Purdue University, Indiana, USA.**

- Studied the molecular mechanisms of *Listeria monocytogenes* pathogenesis through identifying receptors, virulent factors and mechanisms of colonization.
- Studied the effect of growth media on the expression of virulence factors in *L. monocytogenes*.
- Studied the relationship between *L. monocytogenes* isolates from food and clinical samples by PCR and Ribotyping.
- Supervised a visiting researcher from Ukran and a student from PortoReco.

**95- 97 Seminar Evaluator and lecturer, teaching assistant and research assistant; Department of Animal Science and Department of Food Science, University of Manitoba, Canada.**

- Evaluated Seminars prepared and presented lectures on microbial toxins in Nutritional Toxicology.
- Prepare and gave lectures in food microbiology I and II and advanced food microbiology

**93- 95 Teaching Assistant; Department of Food Science, University of Manitoba, Canada**

- Prepared, reagents and chemicals and set the laboratory ready for experiments
- Lectured students on experimental procedures and safety issues.
- Demonstrated new techniques and instruments
- Marked lab reports.  
(In Food Microbiology II, Advanced Food Microbiology, Food

Chemistry I and Food Analysis I& II).

- 93- 94      Research Assistant;** Department of Food Science, University of Manitoba, **Canada.**
- Production of monoclonal antibodies to barley thionin.
  - Microbial analysis of sugar samples for Manitoba Sugar.
- 89- 92      Catering Manager;** Saudi Catering and Contracting, **K.S.A.**
- Directed and managed staff of 36 full-time employees to provide catering services for two hospitals in a capacity of 300 beds.
  - Coordinated work between the Saudi Catering and Contracting head office and the hospital administration.
  - Purchased food stuff from the local market for daily needs.
  - Maintained inventory of assets and goods in the location.
- 1988- 1989      Dietitian;** Service Master Co., **Jordan.**
- Prescribed therapeutic foods according to the needs of individual patients.
  - supervised technicians for the preparation and proper distribution of patient recipes.
- 1986-1988      Dietitian;** Royal Medical Services, **Jordan.**
- As a member of a team, I was responsible for insuring the adherence of the catering company of the terms and conditions of the signed contract with Royal Medical Services.
  - Prescribed therapeutic foods for patients.
  - Maintained inventory of the food store for the hospital.

**SPECIALTY AND AREAS OF INTEREST:**

1. Microbiology and Biotechnology;
  - Understanding mechanisms of pathogenesis and antibiotic resistance using molecular and immunological principles.
  - Production and characterization of monoclonal antibodies, polyclonal antibodies and anti-idiotypic antibodies.
  - Immunological and proteomic analysis of food and environmental pathogens and allergens.
  - Rapid detection of food and environmental pathogens using immunoassays, lateral flow and molecular techniques
  - Genetic fingerprinting of food and environmental pathogens using PCR, RFLP, VNTR.

2. Microbiome research, for both Animal and Human; through DNA sequencing
3. Identification of cancer markers in urine, serum or tissue at both molecular and proteomic levels
4. Searching for enzymes and other bioactive agents from soil microbes.
5. Studying pollen allergy using proteomics and immunochemical techniques

#### **TEACHING ACTIVITIES AT JUST**

- MSc.
  - Advanced Microbiology, Bio 731
  - Advanced Laboratory Techniques (Instrumental analysis) NF 703
  - Food Biotechnology NF 776
  - Environmental pollution NR 764
  - Special Topics Bio 791
  - Graduate Seminar Bio 791, NF 791
- BSc.
  - General Microbiology , Bio 231
  - Microbial Biotechnology BT 431
  - General Biology 98, 101, 102, 103
  - Basic Biotechnology, BT 232
  - Animal Biotechnology , BT 411
  - Protein Biotechnology, BT 454
  - Food Safety, NF 477
  - Seminar BT 492
  - Field Training BT 399, NF 400

#### **TEACHING ACTIVITIES AT FCHS, UAE**

- Medical Microbiology and Immunology (pharmacy Dept.), 4<sup>th</sup> year
- Medical laboratory analysis
- General Biology, all students

#### **Accreditation Experience**

- **Chairman** for the Accreditation committee for Department of Biotechnology and Genetic Engineering. We obtained **ASIIN accreditation** for the Bachelor of Biotechnology and Genetic Engineering effective till 30/9/2024. (obtained)
- Member of the accreditation committee for accrediting medical technology programs at FCHS by UAE ministry of higher education and scientific research (obtained).
- **Chairman** of the **Advance ED** accreditation for FCHS. (Obtained).

- Member of accreditation for the department of Biotechnology and Genetic Engineering, JUST (Obtained).
- Member of the committee to set the standards for the accreditation of the Biotechnology and Genetic Engineering in Jordan (appointed by the commission for accreditation of higher education institutions, Ministry of Higher Education, Jordan).
- Chair of accreditation committee for Department of Biotechnology and Genetic Engineering, and Department of Nursing, Philadelphia University,
- Chair of the accreditation committee for the department of Biology at Hashemite University.
- Member of accreditation committee for department of Biology and Department of Medical Technology at Jordan University

#### DEVELOPMENT OF BSc AND MSc PROGRAMS

- Member of a group to develop MSc program in Integrated Water Resources Management, **Sponsored by USAID in conjunction with University of Michigan, Ann Arbor and Cornell University, USA.**
- Developed BSc programs for Biology and Biotechnology tracks (University of Madaba).
- Participated in the Development of BSc program for Forensic Science (Jordan University of Science and technology).
- Chairman of the committee for the updating the MSc program for Applied Biological Sciences, Jordan University of Science and Technology.2011
- Chairman of the committee for updating the BSc program of Biotechnology and Genetic Engineering (Jordan University of Science and Technology).2009

#### CONSULTATIONS

- Project Consultant; Building and E-Health system for chronic diseases monitoring, tracking and prevention in UAE. Project PI, Dr Mohamed Serhani, from IT College, UAEU.
- Testing drugs for Jordan Food and Drug Administration (JFDA) for presence of active ingredients (drugs were marketed as anticancer drugs)
- Testing drugs for JFDA for the identification of the different types of Lactobacillus in the Nutraceutical capsules.
- Consultant for a Tomato Paste factory for microbiological safety of production line as part of a national program called Faculty for Factory.

## STUDENTS SUPERVISED

### **MSc. Students Supervised (Main Advisor)**

- Batool Khataibeh; Effect of microwave treatment on microbial quality and the antimicrobial activity of honey. (Graduated)
- Malak Naif Al Utoom: Isolation and pathogenicity characterization of *Campylobacter* spp. isolated from ready to eat Shawarma sandwiches collected from different areas in Jordan (graduated)
- Waseem Al Musa; Virulence characterization of food and clinical isolates of *Cronobacter sakazakii*. (Graduated)
- Nawal Samara: Isolation and identification of major antigenic determinants of *Enterobacter sakazakii*. (Graduated)
- Abrar Rashdan; Production and characterization of monoclonal antibodies against *Enterobacter sakazakii*. (Graduated)
- Thamer Mohammad Abd el Halim: Usefulness of PCR-RFLP of the coagulase gene to discriminate and classify isolates of *Staphylococcus aureus* that are MRSA, Arabicacin resistant-methicillin resistant or MSSA in epidemiological studies. (Graduated)
- Leena Abdel Hafeez: comparison of virulence characters between clinical and food isolates of *Salmonella enteritidis*. (Graduated)
- Dalal Bsharat: studies on the effect of citric acid on microbial quality in ready to serve humus. (Graduated)
- Batool Amarneh; Genetics of Obesity; A study on the predisposing genes for familial obesity among Jordanian population. (Graduated)
- Maysoon Khuwaileh: Occurrence, distribution and pattern analysis of MRSA on Fomites in public facilities. (Graduated)

### **MSc. Students Supervised (Co Advisor)**

- Malak Khanfar; characterizing environmental MRSA by whole genome sequence and Multi-locus sequence typing (MLST).
- Tuqa al Khashman: insulin levels and its relation with diabetes and food habits and life style
- Ghadeer al Sukhni: effect of different feeding regimens on the milk producing cattle microbiome.
- Farah Al Qudsi: Characterization and Health Promoting Benefits of Novel Exopolysaccharides (EPS) Produced by Probiotics Isolated from Camel Milk.
- Nidaa Al Dukin: Molecular diversity of carbapenem-resistant *Acinetobacter baumannii* collected from patients in Jordanian Hospitals



- Sally Abu Laila: Environmental sampling and isolation of *Acinetobacter baumannii*
- Ekhlas Russan: Genetic Diversity and antibiotic resistance of *Acinetobacter baumannii* isolated from food products.
- Duaa Allawneh: Persistence phenotype and biofilm formation in clinical isolates of *Acinetobacter baumannii*
- Aseel Liftawy: Expression of digestive enzyme and intestinal transporter genes during chronic heat stress in the thermally manipulated broiler chicken.
- Qotaibah Ababneh; Identification and characterization of norovirus from Jordanian in Zarqa River (Graduated).
- Mohammad Awawdeh: Enzymatic, antibiotic and degradation activities of hydrocarbon polluted soil *Streptomyces*. (Graduated)
- Ahlam Dawaghreh: Cellulolytic and pectinolytic soil *Streptomyces* and their potential to degrade different fruit pomaces. (Graduated)
- Ruqaiah Al Omari: Chitinolytic activity of soil *Streptomyces*. (Graduated)
- Khalid Qadora; The role of *Bacillus* species and bacterial proteinases in sweet curdling of UHT flavored milk. (Graduated)
- Dania Qasrawi; Isolation and molecular characterization of *Salmonella* species from poultry products. (Graduated)
- Mahmoud Shatnawi: Identification, typing and enterotoxin type of *Staphylococcus aureus* isolated from camels by PCR-based techniques. (Graduated).
- Majdulen Al Khateeb; studies on the diversity of *Streptomyces* in hydrocarbon polluted soil. (Graduated)
- Sadique Mulhem; studies on the proteins in saliva that might exert an effect on dentures (Graduated)

#### **MSc. Thesis Examiner**

- Sara Al Damen, Department of Medical Technology, Amman national University
- Heba Tawfiq Abu Al Rub (Department of Medical Technology)
- Wael Al Omari (Foods and Nutrition, JUST)
- Ibrahim Tayar (Applied Biology, JUST)
- Mohammad al Khateeb (Food and Nutrition, JUST)
- Tamara Al Mousa (Human Nutrition, Jordan University)
- Aseel Al-Sha'er (Medical Technology, JUST)
- Sawsan Metlaq (Nutrition and food, JUST)
- Weaam al Masri (Nutrition and Food, JUST)

#### **Supervision of Undergraduate Projects**

- Qutaibah Ababneh

- Abrar Rashdan
- Deema Sultan
- Nabeel Rashdan
- Raghad Musa
- Lamice Shurafa
- Abeer Idris

GRANTS FUNDED AS PRINCIPAL INVESTIGATOR

1. Studying the gut microbiome composition in colorectal cancer patients in the Jordanian populations
2. Serotyping, virulence genes screening, antibiotic susceptibility testing and whole genome sequencing of *E. coli* isolates obtained from shawarma meals sold in Jordan.
3. Investigating the immune response during bacterial challenge in the embryonic thermally manipulated broiler chicken
4. Studying the effect of microwave treatment on the microbial quality and the antimicrobial quality of honey.
5. Isolation and pathogenicity characterization of *Campylobacter* spp. And other enteric bacteria isolated from ready to eat Shawarma sandwiches collected from different areas in Jordan
6. Molecular typing and virulence characterization of *Listeria monocytogenes* isolated from different raw and ready to eat foods and the changes in their antibiotic resistance patterns over the last 10 years in Jordan
7. Molecular typing of *S. aureus* isolated from lamb, beef, goat, chicken, and fish and comparing and comparing it to clinical isolates by PCR-RFLP and multiple-locus variable number tandem repeat analysis (VNTR) to further understand their polymorphism and genetic relationship. (Funded by Research Deanship at JUST).
8. Molecular characterization of *Salmonella enteritidis* outbreak strains and their genotypic and phenotypic relationship to poultry isolates. (Funded by Deanship of Research at JUST).
9. Usefulness of PCR-RFLP of the coagulase gene to discriminate and classify isolates of *Staphylococcus aureus* that are MRSA, Arabicacin resistant-methicillin resistant or MSSA in epidemiological studies. (Funded by Deanship of Research at JUST).
10. Antigenic and allergenic differences between different olive tree varieties found in Jordan, (Funded by Deanship of Research at JUST).
11. Production of monoclonal antibodies to *Enterobacter sakazakii* surface antigens. (Funded by Research Deanship at JUST)
12. Characterization of monoclonal antibodies produced against *E. sakazakii*. (Funded by Deanship of Research at JUST).

13. Immunologic and proteomic analysis of *Enterobacter sakazakii* isolated from a wide range of foods including infant foods and formulas. (Funded by Research Deanship at JUST)
14. Virulence characterization of *Enterobacter sakazakii*, an infant formula pathogen. (Funded by Research Deanship at JUST)
15. Studying the prevalence of the obesity genes among school children (6-18) in Jordan using PCR-RFLP and DNA sequencing. (Co-Funded by the University of Jordan).
16. Occurrence, distribution, and pattern analysis of methicillin –resistant *Staphylococcus aureus* (MRSA) on fomite in public facilities. (Funded by Research Deanship at JUST)
17. Frequency of Human papilloma virus types and gene expression using DNA microarray in Transitional cell carcinoma patients. (Funded by Research Deanship at JUST).
18. Molecular typing of clinical and environmental *E. coli* strains using Rep-PCR and testing the isolates for the production of major toxins. (Funded by Research Deanship at JUST).

#### GRANTS FUNDED AS CO- INVESTIGATOR

1. Molecular diversity of carbapenem-resistant *Acinetobacter baumannii* collected from patients in Jordanian Hospitals
2. Environmental sampling and isolation of *Acinetobacter baumannii*
3. Genetic Diversity and antibiotic resistance of *Acinetobacter baumannii* isolated from food products
4. Persistence phenotype and biofilm formation in clinical isolates of *Acinetobacter baumannii*
5. Expression of digestive enzyme and intestinal transporter genes during chronic heat stress in the thermally manipulated broiler chicken
6. Identification of diagnostic and prognostic markers for bladder cancer (Funded by ASTF, UAE)
7. Investigating the microbiological safety of shawarma sold in Jordan. (Funded by Research Deanship at JUST).
8. Screening of chitinolytic *Streptomyces* isolated from Jordanian soils; characterization, purification and optimal production conditions (Funded by Deanship of Research at JUST).
9. Enzymatic, antibiotic and degradation activities of hydrocarbon-polluted soil *Streptomyces*. (Funded by Deanship of Research at JUST).
10. The role of bacillus species and bacterial proteinases in sweet curdling of UHT flavored milk. (Funded by Deanship of Research at JUST).
11. Cellulolytic and pectinolytic soil *Streptomyces* and their potential to degrade

- different fruit pomaces. (Funded by Deanship of Research at JUST).
12. Studies on the diversity of *Streptomyces* in hydrocarbon polluted soil. (Funded by Deanship of Research at JUST).
  13. Isolation and molecular characterization of *Salmonella* species from poultry products. (Funded by Deanship of Research at JUST).
  14. Molecular surveillance of norovirus in Al-Zarqa basin, Jordan. (Funded by Deanship of Research at JUST).
  15. Development and characterization of a novel bovine milk protein composed of bovine serum albumin and bovine insulin; a possible potent diabetogen. (Deanship of Research at Jordan University).

DNA SEQUENCES OF *CRONOBACTER* DEPOSITED UNDER MY NAME IN THE GENBANK, NCBI, USA

FJ906897, FJ906898, FJ906899, FJ906900, FJ906901, FJ906902, FJ906903, FJ906904, FJ906905, FJ906906, FJ906907, FJ906908, FJ906909, FJ906910, FJ906911, FJ906912, FJ906913, FJ906914, FJ906915, FJ906916, FJ906917, FJ906918, FJ906919, FJ906920, FJ906921, FJ906922, FJ906923, FJ906924, FJ906925

Use the following URL to retrieve any sequence by typing the number in the search area. <http://www.ncbi.nlm.nih.gov/sites/entrez?db=nucleotide>

RESEARCH COLLABORATORS

1. Dr. Ben D Tall (US FDA)
2. Dr. Arun K Bhunia (USA)
3. Dr. Ronald Marquardt (Canada)
4. Dr. Jerzy Zawistowski (Canada)
5. Dr. Steve Forsythe (Ireland)
6. Dr. Richard A Holley (Canada)
7. Dr. Hayder Al Domi, (Jordan University)
8. Dr. Wael Hayagneh, (JUST)
9. Dr. Akram Al Aboudi, (JUST)
10. Dr. Ismail Saadoun, (UAE)
11. Dr. Mustafa Ababneh (JUST)
12. Dr. Anas Al- Nabulsi, (JUST)
13. Dr. Tareq Osaili, (JUST)
14. Dr. Reyad Shaker (JUST)
15. Dr. Yaser Tarazi (JUST)
16. Dr. Qutaibah Ababneh (JUST)

17. Dr. Ahemd El Beteiha (JUST)
18. Dr. Suzane Al Khateeb (JUST)
19. Dr. Burhan Zghoul (JUST)
20. Dr. Maher Tadros (JUST)
21. Dr. Khaldon Bdour (JUST)

#### REFEREED PUBLICATIONS

1. QUTAIBA O ABABNEH, Neda'a Aldakin; **Ziad Jaradat**; Ekhlas Alrosan; Zeina Enaya; Dua'a Alsaleh; Dua'a Alawneh; Sara Al Sbei; Ismail Saadoun. 2025. Predominance of Extensively-drug resistant *Acinetobacter baumannii* carrying blaOXA-23 in Jordanian patients admitted to the intensive care units" PLOS 1 : 20 (2), e 0317798.
2. AN Olaimat, S Hamaideh, M Al-Holy, A Al-Nabulsi, AM Alqudah, The antimicrobial activity of chitosan and gelatin coatings containing pomegranate peel extract against *Listeria monocytogenes* on Medjool dates. Arab Journal of Basic and Applied Sciences 32 (1), 198-214
3. AM Ababneh, AN Olaimat, M Al-Holy, A Al-Nabulsi, N Al-Awwad, Combined enzymes and Aleppo pine essential oil to control *Cronobacter sakazakii* biofilms on stainless steel and plastic surfaces. Biofouling, 1-12.
4. Q Ababneh, R Alqazaq, Z Jaradat, H Khanjar. Interspecies Competitive Interactions of Clinical Isolates of *Acinetobacter baumannii* With *Klebsiella pneumoniae*, *Staphylococcus aureus*, and *Pseudomonas aeruginosa*. International journal of clinical practice 2025(1), 5516061
5. Amin N. Olaimat, Ahmad Ababneh, Murad Al Holy, Anas al Nabulsi, Ala Qatatsheh, **Ziad Jaradat**, Borhanldeen al bis, Tareq Osaili, Richard Holley. **2024**. Antimicrobial and antibiofilm activities of Aleppo pine essential oil and enzymes against *Salmonella enterica* biofilms formed on stainless steel and plastic surfaces. Food Control. Volume 164, . <https://doi.org/10.1016/j.foodcont.2024.110587>.
6. **Jaradat Z W.**, Abu Lailla, S., Al-Rousan E and Ababneh, Q. **2024**. Prevalence of *Escherichia coli* O157: H7 in foods in the MENA region between years 2000 and 2022: **a review**. Arab Journal of Basic and Applied Sciences 31 (1), 104-120
7. Ababneh Q, Al Sbei S, **Jaradat Z**, Syaj S, Aldaken N, Ababneh H, Inaya Z. **2023**. Extensively drug-resistant *Acinetobacter baumannii*: role of conjugative plasmids in transferring resistance. *PeerJ* 11:e14709 <https://doi.org/10.7717/peerj.14709>.

8. I Saadoun, M Alawawdeh, **Z Jaradat**, Q Ababneh, BM Al-Joubori **2023**. Characterization of diesel-degrading, hydrolytic enzymes- producing *Streptomyces* spp. isolated from fuel-oil polluted soils. Arab Journal of Basic and Applied Sciences 30 (1), 248-255
9. B Khataybeh, **Z Jaradat**, Q Ababneh **2023** ..Anti-bacterial, anti-biofilm and anti-quorum sensing activities of honey: **A review**. Journal of Ethnopharmacology, 116830
10. MB Al-Zghoul, **ZW Jaradat**, MM Ababneh, MZ Okour, KMM Saleh **2023**. Effects of embryonic thermal manipulation on the immune response to post-hatch *Escherichia coli* challenge in broiler chicken. Veterinary World 16 (5).
11. **Ziad Jaradat**, Hussen Aldakil, Maher Tadros, Mohammad Alboom, Batool Khataybeh. **2023**. *Rhizoctonia solani* AG-3PT is the major pathogen associated with potato stem canker and black scurf in Jordan[J]. *AIMS Agriculture and Food* , 8(1): 119-136. doi: 10.3934/agrfood.
12. Anas A. Al-Nabulsi, **Ziad W. Jaradat**, Farah R. Al Qudsi, Lina Elsalem, Tareq M. Osaili, Amin N. Olaimat, Gennaro Esposito, Shao-Quan Liu, Mutamed M. Ayyash, **2022**. Characterization and bioactive properties of exopolysaccharides produced by *Streptococcus thermophilus* and *Lactobacillus bulgaricus* isolated from labaneh, LWT, Volume 167, , 113817,ISSN 0023-6438, <https://doi.org/10.1016/j.lwt.2022.113817>.
13. Characterization of Cronobacter sakazakii Strains Originating from Plant-Origin Foods Using Comparative Genomic Analyses and Zebrafish Infectivity Studies. Hyein Jang, Athmanya Eshwar, Angelika Lehner, Jayanthi Gangiredla, Isha R. Patel, Junia Jean-Gilles Beaubrun, Hannah R. Chase, Flavia Negrete, Samantha Finkelstein, Leah M. Weinstein, Katie Ko, Nicole Addy, Laura Ewing, Jungha Woo, Youyoung Lee, Kunho Seo, **Ziad Jaradat**, Shabarinath Srikumar, Séamus Fanning, Roger Stephan, Ben D. Tall, and Gopal R. Gopinath. *Microorganisms* **2022**, 10(7), 1396; <https://doi.org/10.3390/microorganisms10071396>
14. Ababneh, Q., Al-Rousan, E. & **Jaradat, Z.** **2022**. Fresh produce as a potential vehicle for transmission of *Acinetobacter baumannii*. *Food Contamination* **9**, 5. <https://doi.org/10.1186/s40550-022-00092-7>.
15. Qutaiba Ababneh, Sally Abulaila, **Ziad Jaradat**, 2022. Isolation of extensively drug resistant *Acinetobacter baumannii* from environmental surfaces inside intensive care

- units, American Journal of Infection Control, Volume 50, Issue 2, ,Pages 159-165,ISSN 0196-6553,<https://doi.org/10.1016/j.ajic.2021.09.001>. (<https://www.sciencedirect.com/science/article/pii/S0196655321005897>).
16. **Ziad Jaradat**, Batool Khataybeh, Abdull Majid Al Ghzawi, Qutaiba Ababneh, Anas Al Nabusli. **2022**. Molecular identification of major bacteria in honey and the effect of microwave treatment on its microbial quality and antibacterial activity[J]. *AIMS Agriculture and Food*, 7(3): 594-613. doi: 10.3934/agrfood.2022037.
  17. Qutaiba Ababneh, **Ziad Jaradat**, Malak Khanfar, Rahaf Alnohoud, Mallak Alzu'bi, Sara Makahleh, Sally Abulaila. **2022**. Methicillin-resistant *Staphylococcus aureus* contamination of high-touched surfaces in a university campus. *Journal of Applied Microbiology*. 132(6): 4486-4500.
  18. Qutaiba Ababneh, Neda'a Aldaken, **Ziad Jaradat**, Sara Al Sbei, Dua'a Alawneh, Esra'a Al-zoubi, Tasnim Alhomsy, Ismail Saadoun. **2022**. Molecular epidemiology of carbapenem-resistant *Acinetobacter baumannii* isolated from three major hospitals in Jordan. *International journal of clinical practice*. 75(12)e 14998
  19. Amin N. Olaimat, Anas A. Al-Nabulsi, Tareq M. Osaili, Murad Al-Holy, Mahmoud Abu Ghoush, Hana Alkhalidy, **Ziad W. Jaradat**, Mutamed Ayyash, Richard A. Holley. 2022. Inactivation of stressed *Salmonella enterica*, *Escherichia coli* O157:H7, and *Listeria monocytogenes* in hummus using low dose gamma irradiation. *Journal of Food Science* 87 (2), 845-855
  20. **Ziad W. Jaradat**, Waseem A. Al-Mousa, Ahmed M. Elbetieha, Qutaiba O. Ababneh, Anas A. Al-Nabulsi, Hyein Jang, Jayanthi Gangiredla, Isha R. Patel, Gopal R. Gopinath, Ben D. Tall. 2022. Virulence, antimicrobial susceptibility and phylogenetic analysis of *Cronobacter sakazakii* isolates of food origins from Jordan. *Journal of Applied Microbiology*. 133 (4), 2528-2546  
m<https://doi.org/10.1111/jam.15723>
  21. **ZW Jaradat**, M Khwaileh, W Al Mousa, QO Ababneh, A. Al Nabulsi. 2021. Occurrence, distribution and pattern analysis of methicillin resistant (MRSA) and methicillin sensitive (MSSA) *Staphylococcus aureus* on fomites in public facilities *Pathogens and Global Health*, 1-15.
  22. Q Ababneh, S Abulaila, **Z Jaradat**. 2021. Isolation of extensively drug resistant *Acinetobacter baumannii* from environmental surfaces inside intensive care units *American Journal of Infection Control*. <https://doi.org/10.1016/j.ajic.2021.09.001>

23. I Saadoun, Q Ababneh, **Z Jaradat**. 2021. Genomic detection of waterborne enteric viruses as water quality indicators in Al-Zarqa River, Jordan. *Journal of Water and Health*. 19 (4), 604-6015.
24. S Mutlaq, B Albiss, AA Al-Nabulsi, **ZW Jaradat**, AN Olaimat, MS Khalifeh.. et al. 2021. Conductometric Immunosensor for *Escherichia coli* O157: H7 Detection Based on Polyaniline/Zinc Oxide (PANI/ZnO) Nanocomposite. *Polymers* 13 (19), 3288.
25. Q Ababneh, N Aldeken, **Z Jaradat**, S Al Sbei, D Alawneh, E Al-Zoubi, ...et al. 2021. Molecular epidemiology of carbapenem-resistant *Acinetobacter baumannii* isolated from three major hospitals in Jordan. *International Journal of Clinical Practice*, <https://doi.org/10.1111/ijcp.14998>
26. Audai A. Hayajneh, **Ziad W. Jaradat**, Eman S. Alsatari, Mohamad H. Abloom. 2021. Predictors of growth of *Escherichia coli* on lab coats as part of hospital-acquired infection transmission through health care personnel attire. *International Journal of Clinical Practice*. 0:e14815. <https://doi.org/10.1111/ijcp.14815>.
27. **Ziad W Jaradat**, Qutaiba O Ababneh, Sherin T Sha'aban, Ayesha A Alkofahi, Duaa Assaleh & Anan Al Shara (2020) Methicillin Resistant *Staphylococcus aureus* and public fomites: **a review**, *Pathogens and Global Health*, DOI: [10.1080/20477724.2020.1824112](https://doi.org/10.1080/20477724.2020.1824112)
28. Ismail Saadoun, Mohammad Alawawdeh, **Ziad Jaradat**, and Qotaiba Ababneh. 2020. *Streptomyces* flora in chronically fuel oil-polluted soils and analysis of their alkane hydroxylase (*alkB*) gene by PCR. *Jordan Journal of biological sciences*. 13: 3, 731-734.
29. Anas Al Nabulsi, Tareq Osalili, Amin Olaimat, We'am Al Masri, Murad Al-Holy, **Ziad Jaradat**, Mutamed Ayyash, Saddam Awaishah, Richard Holley. 2020. Inhibitory effect of thyme and cinnamon essential oils against *E. coli* O157: H7 in Tahini. *Food Science and Technology*. 40, 885-893
30. Anas A. Al-Nabulsi, Tareq M. Osaili, Amin N. Olaimat, Weam E. Almasri, Mutamed Ayyash, Murad A. Al-Holy , **Ziad W. Jaradat**, Reyad S. Obaid, Richard A. Holley. (2020). Inactivation of *Salmonella* spp. in Tahini Using Plant Essential Oil Extracts. *Food Microbiology*. 86:103338.
31. Ismail Saadoun, Qotaiba Ababneh, **Ziad Jaradat** and Mamdoh Meqdam. (2019) Molecular Surveillance of Enteroviruses in Al-Zarqa River, Jordan. *Jordan Journal of Biological Sciences*. 13(3): 327-335.



32. HA Al-Domi, A Faqih, **Z Jaradat**, ALD Anfal, S Jaradat, B Amarneh (2019) Physical activity, sedentary behaviors and dietary patterns as risk factors of obesity among Jordanian schoolchildren. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 13 (1), 189-194.
33. MB Al-Zghoul, ARS Alliftawi, KMM Saleh, **ZW Jaradat**. 2019. Expression of digestive enzyme and intestinal transporter genes during chronic heat stress in the thermally manipulated broiler chicken. *Poultry Science*, pez249, <https://doi.org/10.3382/ps/pez249>
34. Hussain al Dakhil, **Ziad Jaradat**, Maher Tadros, and Mohamad al Boom.(2019) First Report of *Fusarium equiseti* causing crown rot on Cucumber in Jordan Valley. *Plant Disease Notes* (**published first look Online:5 Aug 2019** <https://doi.org/10.1094/PDIS-11-18-2073-PDN> ).
35. Hyein Jang; Jung-ha Woo; Youyoung Lee; Flavia Negrete; Samantha Finkelstein; Hannah Chase; Nicole Addy; Laura Ewing-Peebles; Junia Jean Gilles Beaubrun; Isha Patel; Jayanthi Gangiredla; Athmanya Eshwar; **Ziad W. Jaradat**; Kunho Seo; Sri Kumar Shabarinath; Séamus Fanning; Roger Stephan; Angelika Lehner; Gopal R. Gopinath; Ben D Tall (2018) Draft genomes of *Cronobacter sakazakii* strains isolated from dried spices bring unique insights into the diversity of plant-associated strains. *Standards in Genomic Sciences*. 13; 35. PP1-16. <https://doi.org/10.1186/s40793-018-0339-6>.
36. Amin N. Olaimat, Anas A. Al-Nabulsi, Tareq M. Osaili, Murad Al-Holy, Mutamed Ayyash, Ghadeer F. Mehyar, **Ziad W. Jaradat**, Mahmoud Abu Ghoush. (2017) Survival and inhibition of *Staphylococcus aureus* in commercial and hydrated tahini using acetic and citric acids. *Food Control*, 77:179-186.
37. **Ziad W Jaradat**, Thamer Hamdan, Wail Hayagneh, Asem Shihabi. (2017). "Antimicrobial susceptibility, toxin profiling and molecular typing of *Staphylococcus aureus* isolates from two tertiary hospitals in Jordan". *Journal of Infection in Developing Countries*. 11:876-886.
38. khaldon bodoor, Abdulhameed Al-Ghabkari, Ismail Matalka, Yazan Haddad , Asem AlKhateeb, Saied Jaradat, **Ziad W Jaradat**, Mohammed Al-Ghazo, Aya Abu-sheikha, Sara Abu Jalboush, and Yousef Jarun. (2017). Assessment of p53 mutations, expression and prognosis in bladder cancer patients from Jordan: Identification of novel deletion mutations in the DNA-binding domain. *Meta Gene*. DOI: 10.1016/j.mgene.2017.01.002. 12:33-42.

39. Ismail Saadoun, Hanadi Ananbeh, Qotaiba Ababneh, **Ziad Jaradat**. (2017) Comparative distribution of soil Streptomyces flora in different Jordanian habitats and their enzymatic and antibiotic activities. Research Journal of Pharmaceutical Biological and Chemical Sciences. 8 (2): 1285-1297.
40. Sadeq A Qodcieh , Suzane N Al-Khateeb, **Ziad W Jaradat**, Elham S Abu Alhaija. (2017). Force degradation of orthodontic latex elastics: an in vivo study. American Journal of Orthodontic and Dentofacial Orthopedics. 151: 507-5012.
41. **Ziad W Jaradat**, Qutaiba O Ababneh, Shahd Saraireh, Thamer Abdullhalim, Waseem Al Mousa<sup>1</sup>, Yaser Tarazi, Tareq M Osaili, Anas Al- Nabulsi , and Ismail Saadoun. 2016. Analysis of genetic heterogeneity of *Staphylococcus aureus* strains isolated from food and clinical samples from northern Jordan Using VNTR, toxin profiles and antibiograms. Malaysian Journal of Microbiology. 12:254-264.
42. Anas A. Al-Nabulsi, Amin N. Olaimat, Tareq M. Osaili, Heba M. Obaidat, **Ziad W. Jaradat**, Reyad R. Shaker, Richard A Holley. (2016). Recovery and Behavior of Stressed *Escherichia coli* O157:H7 Cells on Rocket Leaf Surfaces Inoculated by Different Methods. Italian Journal of Food science. 28:57-63.
43. Al-Nabulsi AA, Olaimat AN, Osaili TM, Ayyash MM, Abushelaibi A, **Jaradat ZW**, Shaker R, Al-Taani M, Holley RA. (2016). Behavior of *Escherichia coli* O157:H7 and *Listeria monocytogenes* during fermentation and storage of camel yogurt. J Dairy Sci. 2016 Mar;99 (3):1802-11. doi: 10.3168/jds.2015-9872.
44. Tareq M Osaili, Anas A Al-Nabulsi, **Ziad Jaradat**, Reyad R Shaker, Dalia Z Alomari, Maher M Al-Dabbas, Akram R Alaboudi, Mohammad Q Al-Natour, Richard A Holley. (2015). Survival and growth of *Salmonella Typhimurium*, *Escherichia coli* O157: H7 and *Staphylococcus aureus* in eggplant dip during storage. International journal of Food Microbiology. 198: 37-42.
45. Al-Nabulsi AA, Olaimat AN, Osaili TM, Shaker RR, Zein Elabedeen N, **Jaradat ZW**, Abushelaibi A, Holley RA. (2014). Use of acetic and citric acids to control *Salmonella Typhimurium* in tahini (sesame paste). Food Microbiology.42:102-8.
46. **Jaradat ZW**, Al Mousa W, Elbetieha A, Al Nabulsi A, Tall BD. (2014). Cronobacter spp.--opportunistic food-borne pathogens. **A review** of their virulence and environmental-adaptive traits. Journal of Medical Microbiology. 63 (Pt 8):1023-37.
47. Saadoun, I, **Jaradat, ZW**, Al Tayyar, I A, El Nasser, Z and Ababneh Q (2014). Airborne methicillin-resistant *Staphylococcus aureus* in the indoor environment of

King Abdullah University Hospital, Jordan. Indoor and Built Environment. 10.1177/1420326X14526604.

48. Anas A Al-Nabulsi, Tareq M Osaili, Reyad R Shaker, Amin N Olaimat, **Ziad W Jaradat**, Noor A Zain Elabedeen, Richard A Holley. (2014). Effects of osmotic pressure, acid, or cold stresses on antibiotic susceptibility of *Listeria monocytogenes*. Food Microbiology 46, 154-160
49. **Jaradat ZW**, Abedel Hafiz L, Ababneh MM, Ababneh QO, Al Mousa W, Al-Nabulsi A, Osaili TM, Holley R. (2014). Comparative analysis of virulence and resistance profiles of Salmonella Enteritidis isolates from poultry meat and foodborne outbreaks in northern Jordan. Virulence. 1;(5):601-10.
50. **Jaradat ZW**. 2013. Genetics beyond diabetes and baldness. Advancements in Genetic Engineering. 3:e105. doi: 10.4172/2169-0111.1000e105. **Editorial**.
51. **Jaradat ZW**. 2013. Nanotechnology and its role in advancing Medicine. JSM Nanotechnol Nanomed 1(2): 1012. **Editorial**
52. Al Domi, H., Al zweiri, M., Hamdan, I., **Jaradat, Z**. 2013. In vitro evaluation of potential complexation between bovine insulin and bovine serum albumin. Biomedical Chromatography. DOI: 10.1002/bmc.3050
53. Saadoun, I, Bin Humoudi, K, Kalander, M, AL Joubori, B and **Ziad W Jaradat** (2013). Inhibitory Bioactive Metabolites Produced by Actinomycetes Isolated from Mangrove Ecosystem of Khor Kalba' Shores, UAE . International Journal of Biotechnology and Food Sciences. Vol 1 (2); 39-45.
54. Anas A. Al-Nabulsi , Tareq M. Osaili , Reyad R. Shaker, Amin N. Olaimat, Amita Attlee, Murad A. Al- Holy, Noor Zein Elabedeen, **Ziad W. Jaradat**, Richard A. Holley (2013) Survival of *E. coli* O157:H7 and *Listeria innocua* in Tahini (sesame paste). Journal of Food, Agriculture and Environment. 11(3&4): 303-306.
55. Saadoun I., Dwagreh, A., **Jaradat, Z**. and Ababneh Q. (2013) Influence of culture conditions on pectinase production by Streptomyces sp. (Strain J9). International Journal of Life Science and Medical Research. 3: 148-154.
56. Osaili, T., Al Nabulsi, A., Shaker R., **Jaradat, Z. W**, Taha, M., Al-Kherasha, M, Meherat, M. and Holley, R. (2014). Prevalence of *Salmonella* serovars, *Listeria monocytogenes* and *Escherichia coli* O15H:H7 in traditional ready to eat meat products in Jordan: a national study. Journal of Food Protection. 77(1):106-11.

57. Osaili, T, Al Nabulsi, A., Shaker, R., Olimat, A., and **Jaradat, Z.** (2013) Thermal inactivation of *Salmonella typhimurium* in chicken shawarma (Gyro). *International Journal of Food Microbiology*. 166: 15-20.
58. **Ziad W Jaradat**, Akram Al Aboudi, and Mahmoud Shatnawi (2013). *Staphylococcus aureus* isolated from Camels differ in coagulase production, genotype and methicillin resistance gene profiles. *Journal of Microbiology, Biotechnology and Food Sciences*. 2 (6): 2455-2461.
59. **Ziad W Jaradat**, Yaser H Tarazi and Qotaibah O Ababneh (2013). Molecular characterization of *Staphylococcus aureus* isolated from meat and their antibiotic resistance profiles. *Pakistan Veterinary Journal*. 34 (1): 58-62.
60. Akram Al Aboudi, **Ziad W Jaradat**, Mahmoud Shatnawi (2012). Biotypes and Enterotoxigenicity of *Staphylococci* Isolated from Camel's Meat in Jordan. *Microbiology Research Journal*. 2(1): 23-35.
61. **Ziad W Jaradat** (2012). Bacterial meningitis, molecular diagnosis and epidemiological typing; a review. In *Bacterial Meningitis pathogenesis and diagnosis*. Nova Science, NY. Pp 183-240. **(Invited Book Chapter)**  
[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=24591](https://www.novapublishers.com/catalog/product_info.php?products_id=24591)
62. **Ziad W Jaradat**, Alaa Al Bzour, Qotaibah Ababneh, Saleh Shdiefat, Saied Jaradat and Hayder Al Domi (2012). Identification of allergenic pollen grains in thirty six olive (*Olea europaea*) cultivars grows in Jordan. *Food and Agricultural Immunology*. 23 (3): 255-264.
63. **Ziad W Jaradat**, Abrar M Rashdan, Qotaiba O Ababneh, Saied A Jaradat, and Arun K. Bhunia (2011). Characterization of *Cronobacter muytjensii* using monoclonal antibodies and MALDI-TOF spectrometry. *BMC Microbiology*. Jun 25;11:148.
64. Anas Nabulsi, Tarek Osaili, Nour Zain Alabdeen, **Ziad W Jaradat**, Reyad Shaker and Richard Holley (2011). Impact of Environmental Stress, desiccation, acidity, alkalinity, heat or cold on Antibiotic Susceptibility of *Cronobacter sakazakii*. *International Journal of Food Microbiology*. 146:137-143.
65. Khaldon Bodoor, Abdulhameed Ghabkari, **Ziad Jaradat**, Asem Alkhateeb, Saied Jaradat, Mohammed Al-Ghazo, Ismail Matalqa, Hisham Musleh and Yazan Haddad. (2010). FGFR3 mutational status and protein expression in patients with bladder cancer in a Jordanian population. *Cancer Epidemiology*. 34: 724-732.
66. Al Domi, H. A., **Jaradat, Z W.**, Jones, R M. and Ababneh, Q O. 2010. Investigating

Immune Responses to Putative Diabetogenic Modified Bovine Proteins Subjected to Microwave Heating among Young Jordanian Children with Type 1 Diabetes Mellitus Research Journal of Biological Sciences 5: 521-528.

67. **Jaradat, Z.** , Ronald R. Marquardt, Andrew A. Frohlich and Qotaibah Ababneh. (2010). Chicken anti-idiotypic antibodies as an alternative to the antibiotic treatment for the control of *Escherichia coli* K 88 in meat industry. Jordan Journal of Agricultural Sciences. 6:41-57.
68. **Ziad W. Jaradat**, Qotaiba O. Ababneh, Ismail M. Saadoun, Nawal A. Samara, Abrar M. Rashdan. (2009). Isolation of *Cronobacter* spp. (formerly *Enterobacter sakazakii*) from infant food, herbs and environmental samples and the subsequent identification and confirmation of the isolates using biochemical, chromogenic assays, PCR and 16S rRNA sequencing. BMC Microbiology. 9 (1):225
69. Chap, J., P. Jackson, R. Siqueira, N. Gaspar, C. Quintas, J. Park, T. Osaili, R. Shaker, **Z. Jaradat** , S.H.P. Hartantyo, N. Sani, S. Estuningsih, and S.J. Forsythe. (2009). International survey of *Cronobacter sakazakii* and other *Cronobacter* spp. In follow up formulas and other infant foods. International Journal of Food Microbiology 136: 185-188.
70. Saudoun, I., Al Omari, R., **Jaradat, Z.**, and Ababneh, Q. (2009). Influence of culture conditions of *Streptomyces* sp. (strain S 242) on chitinase production. Polish Journal of Microbiology. 58:343-349.
71. Saadoun, I, Awawdeh, M., **Jaradat, Z.**, and Ababneh, Q., (2008) Growth of *Streptomyces* spp. from hydrocarbon-polluted soil on diesel and their analysis for the presence of alkane hydroxylase gene (alkB) by PCR". World Journal of Microbiology and Biotechnology. World Journal of Microbiology and Biotechnology. 24:2191-2198.
72. **Jaradat, Z.**, Dawagreh A., Ababneh, Q. and Saadoun, I. (2008). Influence of culture conditions on cellulase production by *Streptomyces* sp. (strain J2). Jordan Journal of Biological Sciences 4: 141-146.
73. Saadoun, I, Wahibi, L., Ababneh, Q., **Jaradat, Z.**, Massadeh, M., and Al-Momani, F. (2008). Recovery of soil streptomycetes from arid habitats in Jordan and their potential to inhibit multi-drug resistant *Pseudomonas aeruginosa* pathogens. World Journal of Microbiology and Biotechnology. 24: 157-162.
74. **Jaradat, Z. W.** (2007). T-2 mycotoxin and protection with vitamin E. In Encyclopedia of Vitamin E. Ed. Vector Preedy (Chapter 79, pp 846-854).CABI Publisher, UK. (**Invited Chapter**)

75. Shaker, R., Osaili, T. Al-Omary, W., **Jaradat, Z.** and Al-Zuby, M. (2007). Isolation of *Enterobacter sakazakii* and other *Enterobacter* species from food and food production environments. *Food Control*. 18:1241-1245.
76. **Jaradat, Z. W.**, Vila, B. and Marquardt, R. R. (2006). Adverse effects of T-toxin on chicken lymphocytes blastogenesis and its protection with Vitamin E. *Toxicology*. 225:90-96.
77. Kwang-pyo K., Jagadeesan, B., Burkhoder, K. M., **Jaradat, Z. W.**, Wampler, J. L., Lathrop, A. A., Morgan, M. T. and Bhunia, A. K. (2006) Adhesion characteristics of *Listeria* adhesion protein (LAP)-expressing *Escherichia coli* to Caco-2 cells and of recombinant LAP to eukaryotic receptor Hsp60 as examined in a surface plasmon resonance sensor. *FEMS Microbiology Letters*. 256; 324-332.
78. **Jaradat, Z. W.** (2005) T-2 mycotoxin in the diet and its effects on tissues; *Reviews in Food and Nutrition Toxicity*, Taylor and Francis/ CRC. 4: 174-214.(**Invited Review**).
79. **Jaradat, Z. W.**, Bzikot, J. H., Zawistowski, J. and Bhunia, A. K. (2004). Optimization of a rapid dot-blot immunoassay for detection of *Salmonella enterica* serovar *enteritidis* in food and environmental samples. *Food Microbiology*. 21; 761-769.
80. Jennifer, L. Wampler, Kwang-Pyo Kim, **Ziad, W. Jaradat**, and Arun K. Bhunia (2004). Heat shock protein 60 acts as a receptor for the *Listeria* adhesion protein in Caco-2 cells. *Infection and Immunity*. 72:931-936.
81. **Jaradat, Z. W.** and Bhunia, A. K. (2003). Adhesion, invasion and translocation of different serotypes of *Listeria monocytogenes* in a Caco-2 cell line and a mouse models. *Applied and Environmental Microbiology*. 69:3640-3645.
82. **Jaradat, Z. W.** Wampler, J. and Bhunia, A. K. (2003). An *Listeria* adhesion protein (LAP)-deficient *Listeria monocytogenes* strain shows reduced adhesion to intestinal cell lines. *Medical Microbiology and Immunology*. 192: 85-91.
83. Lathrop, A., **Jaradat, Z. W.**, Haley, T., and Bhunia, A. K. (2003). Characterization and application of a *Listeria monocytogenes* reactive monoclonal antibody C11E9 in a resonant mirror biosensor. *Journal of Immunological Methods*, 281:119-128.
84. **Jaradat, Z. W.**, and Bhunia, A. K. (2002). Glucose and nutrient concentrations affect the expression of a 104-Kilodalton *Listeria* adhesion protein in *Listeria monocytogenes*. *Applied and Environmental Microbiology*. 68: 4876-4883.

85. **Jaradat, Z. W.**, Shultz, G., and Bhunia, A. K. (2002). Genetic homogeneity among *Listeria monocytogenes* strains from infected patients and meat products from two geographic locations determined by phenotyping, ribotyping and PCR analysis of virulence genes. *International Journal of Food Microbiology*. 76:1-10.
86. Vila, B., **Jaradat, Z. W.**, Marquardt, R. R., and Frohlich, A. A. (2002). Effect of T-2 toxin on in vivo lipid peroxidation and vitamin E status in mice. *Food and Chemical Toxicology*. 40: 479-486.
87. **Jaradat, Z. W.** and Marquardt, R. R. (2001). Identification of *E. coli* K88 receptors in porcine intestinal mucus using anti-idiotypic antibodies. *Food and Agricultural Immunology*. 13: 241-253
88. **Jaradat, Z. W.** and Marquardt, R. R. (2000). Studies on the stability of chicken IgY in different sugars, complex carbohydrates and food materials. *Food and Agricultural Immunology*. 12: 263-272.
89. **Jaradat, Z. W.** and Zawistowski, J. (1998). Antigenically stable 35 kDa outer membrane protein of *Salmonella*. *Food and Agricultural Immunology*. 10: 257-270.
90. **Jaradat, Z. W.** and Marquardt, R. R. (1997). L-arginine as a therapeutic approach for the verotoxigenic *Escherichia coli*-induced hemolytic uremic syndrome and thrombotic thrombocytopenic purpura. *Medical Hypotheses*. 49:277-280.
91. **Jaradat, Z. W.** and Zawistowski, J. (1996). Production and characterization of monoclonal antibodies against the O-5 antigen of *Salmonella typhimurium* lipopolysaccharide. *Applied and Environmental Microbiology*. 62: 1-5.

#### BOOKS

1. Khalid Qadoura, Reyad Shaker, and **Ziad Jaradat**. *The Role of Bacterial Proteinases in Gelation Defect of UHT Milk*. 2011, Lambert, Academic Publishing, Germany. ISBN: **978-3-8443-9723-9**

#### CONFERENCE PROCEEDINGS, PUBLISHED

1. Bhunia, A. K., **Jaradat, Z. W.**, Nachansky, K., Shroyer, M., Morgan, M. Gomez, R., Bashir, R. and Ladisch, M. (2001). Impedance spectroscopy and biochip sensor for detection of *Listeria monocytogenes*. *Proceedings of the Society for Photo optical instrumentation Engineers (SPIE)*. 4206:32-39.

2. **Jaradat, Z. W.** and Zawistowski, J. (1996). Anti-LPS monoclonal antibodies for the type differentiation of *Salmonella typhimurium*. Winnipeg, Manitoba, Canada Agri-Forum'96. pp. 91-99.

#### MSC AND PHD THESES

1. **Jaradat, Z. W.** (1999). Production and characterization of anti-idiotypic antibodies for the control of *Escherichia coli* infections in mammals. PhD theses. The University of Manitoba, Winnipeg, Canada.
2. **Jaradat, Z. W.** (1995). Studies on the antigenicity of the outer membrane of B-serogroup *Salmonella*. MSc. theses. The University of Manitoba, Winnipeg, Canada.

#### CONFERENCE PRESENTATIONS

1. **Ziad W Jaradat**, Hussain Al Dakhil, Maher Tadros and Mohamad Alboom. *Rhizoctonia solani* AG-3PT is the major pathogen associated with potato stem canker and black scurf in Jordan. International Conferences on Biotechnology & Microbiology" (Impact Biotech 2019). 12<sup>th</sup> - 14<sup>th</sup> November 2019, in Dubai, United Arab Emirates.
2. **Ziad W Jaradat**, Qutaibah Ababneh. Molecular analysis of *Escherichia coli* clinical isolates harboring major virulence genes using RAPD-PCR. ASTMH, Oct. 28- Nov 1, New Orleans, 2018. USA.
3. **Ziad W Jaradat\***, Waseem Al Mousa, Ahmed El Beteiha, Qutaibah Ababneh and Anas Al- Nabulsi; Virulence and Genetic Characterization of *Cronobacter* Isolates from Environmental and Food Samples, ASM, June 1-5, 2017, New Orleans, USA.
4. Qutaiba O Ababneh, **Ziad W Jaradat**<sup>1</sup>, Waseem A Al-Mousa<sup>1</sup>, Ahmed M Elbetieha<sup>1</sup>, and Anas A Al-Nabulsi<sup>2</sup> Characterization of toxin production by *Cronobacter* species isolated from environmental and food samples. ASM, June 1-5, 2017, New Orleans, USA
5. Al-Domi, H., Faqih, A., **Jaradat, Z.**, Jaradat, S. Sedentary lifestyle and physical activity levels among young Jordanians: In 4th International Congress on Prediabetes and the Metabolic Syndrome. Madrid, Spain. 69 April, 2011. Journal of Diabetes (April 2011). Vol 3(Supplement 3): 218. (Poster).



6. Mahmud, I., Al-Domi, H., and **Jaradat, Z.** Peripheral Exendin-4 and Exercise Invoke Sustained Anti-obesity Action in Diet-Induced Obese Animal Model (C57BL/6) Mice. In The 4th Graduate Studies Research Conference, Deanship of Academic Research, The University of Jordan, Amman, Jordan; 9-10 October 2012.
7. Al-Domi, H., Alzweiri, M., Hamdan, I. and **Jaradat, Z.** In Vitro Evaluation of Potential Complexation between Bovine Insulin and Bovine Serum Albumin. In 5th International Health Conference. Kuala Lumpur, Malaysia, 26-27 August, 2015.
8. **Ziad W Jaradat** and Mustafa Ababneh. Molecular Characterization of Infectious Bronchitis Virus and Newcastle Disease Virus in Layer and Broiler Flocks in different parts of Jordan. Fourth virology congress, October 6-8, 2014, San Antonio, USA.
9. Anas A. Al-Nabulsi, Tareq M. Osaili, Reyad R. Shaker, **Ziad W. Jaradat** and Richard A. Holley. Effects of osmotic pressure, acid, or cold stresses on antibiotic susceptibility of *Listeria monocytogenes*. The Seventh Dubai International Food Safety Conference and IAFP's First Middle East Symposium on Food Safety. Feb. 21-23. Dubai. UAE, 2012.
10. **Jaradat, Z. W.**, Khwaileh, M, Anas Al Nabulsi and Tareq Osaili. Occurrence of methicillin resistant *Staphylococcus aureus* MRSA in fomites in public facilities and their analysis by VNTR fingerprinting. 4<sup>th</sup> congress of European Microbiologists. Geneva, Switzerland, 2011.
11. Al-Nabulsi, A. A., Osaili, T. M., Awad, A. A., Shaker, R. R., **Jaradat, Z. W.** and Holley, R. A. Prevalence and antibiotic susceptibility of *Listeria monocytogenes* isolated from raw and processed meat products in Jordan. 4<sup>th</sup> congress of European Microbiologists. Geneva, Switzerland, 2011.
12. Al-Nabulsi, A. A., Shaker, R. R. **Jaradat, Z. W.**, and Holley R. A. Survival of *Salmonella enteritidis* in tahini (sesame paste). 4<sup>th</sup> congress of European Microbiologists. Geneva, Switzerland, 2011.
13. Ababneh, Q., Saadoun, I., **Jaradat, Z. W.** and Meqdam, M. Molecular surveillance of **enteric viruses** in Al-zarqa River. ASM 110<sup>th</sup> General Meeting. San Diego, CA, USA, 2010. Page 80.

14. **Jaradat, Z.W.** Human Papilloma Virus and Cervix Cancer. The second Jordanian Conference for Medical Technology. June 24-26. Amman Jordan. (Invited Oral Presentation).
15. **Jaradat, Z. W.**, Abdel Hafiz, L., Ababneh, Q. and Ababneh, M. Relatedness of the virulence of *Salmonella enterica* serovar *Enteritidis* (*S. enteritidis*) outbreak strains to isolates from poultry products. ASM 110<sup>th</sup> General Meeting. San Diego, CA, USA, 2010. Page 67.
16. Shaker, R. R., Osaili, T., Taani, M., Alnabulsi, A., and **Jaradat, Z. W.** Survival of *E. coli* O157:H7 during manufacturing and storage of fruit yogurt. ASM 110<sup>th</sup> General Meeting. San Diego, CA, USA, 2010. Page 58.
17. Al Nabulsi, A., Osaili, T., Shaker, R., Zain-Elbedeen, **Jaradat, Z. W.** and Holley R. Effect of chill, thermal and desiccation stresses on antibiotic susceptibility of *Cronobacter sakazakii*. ASM 110<sup>th</sup> General Meeting. San Diego, CA, USA, 2010. Page 58.
18. **Jaradat, Z W.**, Aababneh, Q., Saraireh, S., and Ananbeh, H. Molecular typing of *Staphylococcus aureus* isolated from milk, red meat, chicken or fish and comparing it to clinical isolates obtained from same district using PCR-RFLP and Multiple Locus Variable Tandem Repeat analysis (VNTR) to understand their genetic relatedness. ASM 109<sup>th</sup> General Meeting, Philadelphia, PA, USA, **2009**. Page 77.
19. Jessica Chap, Philip Jackson, Rosana Siqueira, Nelma Gaspac, Célia Quintas, Jon Park, Tareq Osmaili, Reyad Shaker, **Ziad Jaradat**, Sri Harminda P. Hartantyo, Norrakia Abdullah Sani, Sri Estuningsih, and Steve Forsythe. International survey for *Cronobacter* and related organisms in infant foods and formulas. 1st International Conference on Cronobacter (*Enterobacter sakazakii*) January 22nd & 23rd, **2009** University College Dublin, IRELAND
20. Al-Nabulsi, A., Osaili, T., Shaker, R., **Jaradat, Z.**, and Holley, R. Survival of *Cronobacter* species in reconstituted herbal infant formula and their sensitivity to bovine lactoferrin. ASM 109<sup>th</sup> General Meeting, Philadelphia, PA, USA, **2009**. Page 76.
21. Chap, J., P. Jackson, R. Siqueira, N. Gaspar, C. Quintas, J. Park, T. Osaili, R. Shaker, **Z. Jaradat**, S.H.P. Hartantyo, N. Sani, S. Estuningsih, and S.J. Forsythe. International survey for Cronobacter spp. (*Enterobacter sakazakii*) and related organisms in infant foods and formulas. ASM 109<sup>th</sup> General Meeting, Philadelphia, PA, USA, **2009**. Page 56.

22. **Jaradat, Z. W.**, Yaser Tarazi and Qotaiba Ababneh. Molecular Characterization of *Staphylococcus aureus* isolated from meat and milk of camels, cows, goats and sheep and their antibiotic resistance profiles. ASM conference on Antimicrobial Resistance in Zoonotic Bacteria and Food Borne Pathogens. Copenhagen, Denmark, **2008**.
23. Ismail Saadoun, Ruqayyah Al-Omari, **Ziad Jaradat**, Qotaiba Ababneh. Influence of culture conditions of *Streptomyces* sp. (strain S242) on chitinase. **2nd** International Conference on Environmental, Industrial and Applied Microbiology, Seville, Spain, **2008**.
24. Bodoor, K., Jaradat, S., **Jaradat, Z.**, Matalqa, I., Gazo, M. and Alkhateeb, A., FGFR3 and P53 proteins expressions in Jordanian patients with bladder cancer. AACR 100<sup>th</sup> Meeting, Dead Sea, Jordan, **2008**. pp 91.
25. **Jaradat, Z. W.**, Samarah, N, Ababneh, Q, Rashdan, A.,and Saadoun I. Isolation of *E. sakazakii* from a wide range of foods, infant formula, and environmental samples and the identification of the possible pathogen reservoir. ASM 107<sup>th</sup> General Meeting, Toronto, Canada, **2007**.
26. **Jaradat, Z. W.**, Dwaghreh, A. and Saadoun ,I. Cellulytic and pectinolytic soil *Streptomyces* and their potential to degrade different fruit pomaces. ASM 106<sup>th</sup> General Meeting, Orlando, Florida, USA, 2006.
27. Wampler, J. L., Kim, K. P., **Jaradat, Z. W.** and Bhunia, A. K. Heat shock protein 60 acts as a receptor for the Listeria adhesion (LAP) in Caco-2 cells. ASM 103<sup>ed</sup> General Meeting, Washington DC. USA, 2003. pp 490.
28. Kim, K. P., **Jaradat, Z. W.** and Bhunia, A. K. Alcohol acetaldehyde dehydrogenase homologue of *Listeria monocytogenes* is a *Listeria* adhesion protein (LAP) involved in pathogenesis. ASM 103<sup>ed</sup> General Meeting, Washington DC. USA, 2003. pp 490.
29. **Jaradat, Z. W.** and Bhunia A. K. Variation in adhesion and invasion behavior among different serotypes of *Listeria monocytogenes* to Caco-2 cells. ASM 102<sup>nd</sup> General Meeting, Salt Lake City. Utah. USA, 2002. pp 376.
30. Lathrop, A., **Jaradat, Z. W.**, Bhunia, A. K. Increased antibody specificity for *Listeria monocytogenes* by partial masking of antigen binding site in MAb C11E9 with *L. innocua* surface antigens. ASM 102<sup>nd</sup> General Meeting, Salt Lake City, Utah, USA, 2002. pp 370.

31. **Jaradat, Z. W.** and Bhunia, A. K. Effect of different growth media and sugars on the expression of the 104-kDa *Listeria* adhesion protein. ASM 101<sup>st</sup> General Meeting, Orlando, Florida, USA, 2001. pp 562-563.
32. **Jaradat, Z. W.** and Bhunia, A. K. Adhesion characteristics and structural analysis of 104 kDa *Listeria* adhesion protein from *Listeria monocytogenes* and other *Listeria* species. ASM 101<sup>st</sup> General Meeting, Orlando, Florida, USA, 2001. pp 49.
33. **Jaradat, Z. W.** and Marquardt, R. R. Production and characterization of anti-idiotypic antibodies for the control of diarrhea caused by *E. coli* K88. Agriculture's Role in Managing Anti-Microbial Resistance Conference. Toronto, Ontario, Canada. Oct. 24-26, 1999. pp 193.
34. **Jaradat, Z. W.** and Marquardt, R. R. Therapeutic anti-idiotypic antibodies to *E. coli* K88 as an alternative to antibiotic use in meat industry. 86<sup>th</sup> Annual Meeting of IAFP (former IAMFES), Dearborn, Michigan, **USA**, 1999. **(Won the first prize in the poster section in the Developing Scientists Competition).**
35. **Jaradat, Z. W.** and Zawistowski, J. Antigenically stable 35 and 24 kDa outer membrane proteins of *Salmonella*. 82<sup>nd</sup> Annual Meeting of IAFP (former IAMFES), Pittsburgh, PA, **USA**, 1995. **(Oral presentation).**
36. **Jaradat, Z. W.** and Zawistowski, J. Specificity of four monoclonal antibodies produced against *Salmonella typhimurium*. 82<sup>nd</sup> Annual Meeting of IAFP (former IAMFES), Pittsburgh, PA, **USA**. 1995. **(Oral presentation).**

#### INVITED TO ATTEND CONFERENCES AND INTERVIEWS

1. Featured in the newsletter for Biotechnology network with an interview about Biotechnology in the Islamic World. June, 2012
2. Biovision Alexandria 2010; New life sciences, Future Prospects. 11-15 April, 2010, Alexandria-Egypt.
3. Arab Encyclopedia of Life, First preparatory meeting held at Bibliotheca Alexandrina, April 14-15, 2010, Alexandria-Egypt.

#### REPORTS

1. Evaluation of the suitability of the deep water well in Ramtha for drinking and agriculture. **(Requested by the president of JUST)(2009).**

2. Evaluation of active ingredients of forged drugs sold in the Jordan market for cancer treatment. The testing was upon the request of Jordan Food and Drug Administration. (2008)
3. The role of the academic institutions particularly Jordan University of Science and Technology in research on smoking hazards and the measures it takes in their campus to fight smoking. (**Presented to Land and Human to advocate progress establishment**)(2009).
4. Evaluation of the Microbiological safety of tomato paste products and determination of the critical control points in a tomato paste factory (2008).

#### PUBLISHED ARTICLES APPEARED IN THE NEWS (PURDUE UNIVERSITY)

1. "Food safety microbiologist battles food-borne pathogen" *Purdue News*, April 21, 2003.
2. "Microbiologist battles food-borne pathogen" *Purdue Agriculture Connections*, vol 13 (2) Spring 2003.
3. "Researchers learning how foodborne bacteria make you sick" Breakthrough Digest. June 9, 2003.
4. WLFI (TV 18) News about the *Listeria monocytogenes* infection mechanism, June 2003.
5. "Researcher aims to eradicate deadly bacteria" *The Exponent*, July 25, 2003.
6. "Keeping our food safe" *The World & I*, Washington, DC, Sept 2003.
7. "Lock to food-borne pathogen pathway may be key to vaccine" *Purdue News*, Jan 30, 2004
8. Rapid immunoassay detects *Salmonella* Enteritidis in poultry" *Health & Medicine Week* (Nov 22, 2004).

#### AWARDS AND DISTINCTIONS

<b>99</b>	First place, developing scientists competition/poster section, at the IAFP (former IAMFES) 86 <sup>th</sup> annual meeting, Dearborn, Michigan, USA
<b>96-99</b>	University of Manitoba Graduate Fellowship (\$ 16,000/yr)
<b>97</b>	Harry Colnett Scholarship, for enhancement of world food production, Canada
<b>97</b>	Lord Silkrik Association of Rupertsland Agriculture Scholarship, Canada
<b>94</b>	Association of Official Analytical Chemists (AOAC) Mid-Canada Award (for work on developing a test to detect <i>Salmonella typhimurium</i> in food), Canada
<b>87</b>	Graduated third among 56 graduates/ Yarmouk University, Jordan

- 84/ 85**                      Academic Excellence Award /Yarmouk University /Jordan  
                                    (Ranked number one in the third year), Jordan
- 84 & 85**                      Placed on University Honors list /Yarmouk University/Jordan

COMMITTEES MEMBERSHIPS

***Fatima College/Institute of Applied Technology (UAE)***

- Chairman for Academic and Curriculum Committee
- Chairman of the assessment committee
- Member of the operational Committee for administration of the Monash Allied Health Programs offered at FCHS. Ongoing.
- Chair, Scientific Committee for Nursing Conference, FCHS, 2012
- Member of the committee for General requirements, IAT
- Chair of committee to evaluate the performance of Griffith University nursing curriculum used in Fatima College.
- Member of the personnel committee (hiring and promotion committee), IAT
- Member of the Laboratory Tender committee, FCHS/IAT

***Ministry of Higher Education, Jordan***

- Chair of the axis of the added value and food processing in the committee for food security
- Member of a committee to set standards for the accreditation of Departments of Biotechnology and Generic Engineering in Jordan Universities.

***Arab Encyclopedia of Life Project (Alexandria-Egypt), 2010***

- Member of the Science committee
- Chairman of the Microbiology subcommittee

***Department of Standards and Metrology (2009/2010)***

- Chairman of the permanent scientific committee for pesticide residuals in foods 2010

***Higher Council for Science and Technology (2008);***

- Member of the Biotechnology committee

***Jordan Food and Drug Administration (2008);***

- Member in the committee for testing biologicals and vaccines.

***Land and human to Advocate Progress (LHAP) (2008-2010);***

- Member of the committee to evaluate Jordan Adherence to fight tobacco (representing JUST).

***Jordan University of Science and Technology;***

- Chair of the committee for taking care and running the affairs of the university mosque. 2021-
- Chair and member of many *ad hoc* committees
- As a member of a team, I prepared and taped science modules in conjunction with **MIT center for distance learning (Biotechnology Module)**. Biotechnology: can it help in making the desert green? <http://blossoms.mit.edu/>; <http://blossoms.mit.edu/video/jaradat.html>
- Appointed representative on behalf of JUST to supervise the Jordan Food and Drug Administration (JFDA) laboratory housed at JUST campus, 2006.
- Appointed representative by the president on behalf of JUST to participate in the meeting for establishing the Jordan Monoclonal Company (MonoJo) by the Higher Council for Science and Technology, 2004.
- Appointed committee member by the president to establish the rules and ethics for research on animals at JUST, 2006.
- Appointed committee member by the president in permanent University Animal Care Committee. 2007- Present.
- Appointed committee member by the vice president to understand and solve the problems facing the animal house at JUST.

***Faculty of Science;***

- Representative Elect of the Faculty of Science and Arts in the **University Council**. 2009/2010 and 2018-2019.
- Member of the **Faculty council**, 2005, 2007/2008/2009/2010, 2011, 2020/2021
- Member of the Committee for Research and Graduate Study, 2007/2008/2009/2010.
- Member of the Study plan, 2007/2008/2009/2010.
- Member of the University Accreditation committee, 2007/2008/2009/2010.
- Member of the committee to develop a curriculum for Forensic Science Degree at JUST (2007).
- Member of the tender committee 2005/2006 and 2009.
- Member of committee for reviewing credentials for applicants for teaching assistants in Mathematics, physics and English departments 2006, 2009.
- Member of technical committee for evaluation of credentials of several faculty members for promotion, 2006-2009.
- Member of the judgment committee for the poster competition held on the 8<sup>th</sup> and 9<sup>th</sup> Faculty of Science Scientific days.
- Department representative for updating faculty of Science webpage, 2006/2007.

**Faculty of Agriculture**

- Member of the Faculty Scientific Research committee 2006/2007.

**Department of Biotechnology and Genetic Engineering, Faculty of Science;**

- Chair for the accreditation committee for accrediting the department and the biotechnology program
- Chairman of the committee of the study plan , 2007-2010
- Chairman of the committee for the graduate studies, 2007-2010, 2011, 2017-2021.
- Member of the committee of the study plan 2004-2010
- Member of the committee of the teaching load 2005/2006
- Member of the tender committee 2005/2006
- Member of the committee for reviewing and preparing the strategic plan for the department, 2005/2006
- Member of the research committee 2006
- Chairman of the committee for reviewing marks 2006
- Department representative in the Science Faculty Council 2005/2006
- Department representative for the 8<sup>th</sup> and 9<sup>th</sup> Faculty of Science scientific days.
- Member of the committee for reviewing marks 2006/2007
- Chairman of the committee for library and internet 2006/2007
- Member of the committee for the promotion of department member, 2006
- Department's webpage administrator 2005-2010

**Department of Nutrition and Food Technology/Faculty of Agriculture;**

- Chairman of the committee for promotion of members of the department 2007.
- Chairman of scientific research committee 2006/2007.
- Member of Higher Studies committee 2006/2007, 2018-2021.
- Member of the committee for crediting courses from other universities, 2006/2007.
- Member of the research committee 2005/2006.
- Member of the tender committee 2005/2006.
- Member of the amendment of the study plan/2004.

**TECHNICAL SKILLS**

- Expert in production, purification and characterization of monoclonal, polyclonal, and anti-idiotypic antibodies in mice, rabbits and chicken.
- Developed rapid lateral flow assays (5-15 min tests), enzyme linked immunosorbent assays (ELISA); direct, sandwich, competitive, radioimmunoassays and cytotoxic assays.
- Protein and antibody conjugation to gold particles and using them in rapid lateral



flow assays for detection of bacteria, viruses or hormones in foods and biological fluids.

- Purification of bacterial antigens and antibodies, using isoelectric precipitation, ammonium sulfate precipitation, gel filtration, ion-exchange chromatography, affinity chromatography and fast protein liquid chromatography (FPLC).
- SDS-PAGE, native electrophoresis, isoelectric focusing, 2D-gel electrophoresis and thin layer chromatography.
- Protein conjugation to carrier molecules to increase immunogenicity for immunization purposes
- Immunoblotting, dot blotting, carbohydrate staining, gold staining and immunoelectron microscopy.
- DNA fingerprinting of bacteria using PCR, Rep-PCR, VNTR, RFLP, and Plasmid profiling
- Obtained limited knowledge in gene cloning and southern hybridization.
- Extensive knowledge in cell culture (Caco-2, CHO, Int 407, HT-29, Hu Tu-80, HCT-8, HeLa, Hep-G2, HEp-2, UM-UC-3, A-498, MCF-7, SK-MEL-5, SK-OV-3 and Vero cells).
- Managerial skills; Managed catering and contracting services for Saudi Catering & contracting, Service Master Co. and Royal Medical Services both in Saudi Arabia and Jordan (02/89-01/92).

#### COMPUTER SKILLS

- E-Learning using the **Moodle** program, Microsoft Teams, Zoom
- Microsoft Word
- Microsoft Power point
- Microsoft Excel
- Microsoft Publisher
- Adobe Acrobat

#### INVITED SPEAKER AND SEMINARS

**Corona Virus and Respiratory diseases (MER COV);** Fatima College of Health Sciences, Ain and Abu Dhabi, UAE, 2014.

***Cronobacter sakazakii*; Isolation and Characterization.** Departments of Chemistry and Biology, UAEU, UAE. Nov 28, 2012.

**Human Papiloma Virus and cervix cancer.** Medical Technology Conference, Amman, June 25-26, 2010.

**Molecular and immunologic characterization of *Enterobacter sakazakii*, an**

**emerging infant formula pathogen.** The 14<sup>th</sup> Scientific day of the Higher Council of Science and Technology. Amman, Jordan. May 3-6. 2009.

**Antibodies: Their use for detection, therapeutic, and pathogenesis studies of *Salmonella*, *E. coli* and *Listeria*.** SA Scientific Inc, San Antonio, Texas, June, 13, 2002.

**In vitro diagnostics; principals and applications.** The University of Manitoba, Winnipeg, Manitoba, Canada, March 11, 2004.

**Detection of Aflatoxin by ELISA:** Jordan Food and Drug Administration/ WHO program for training Lab technicians, Amman, Jordan, April, 2005.

**Atomic Absorption spectroscopy; detection of heavy metals,** Jordan Food and Drug Administration/WHO program for training Lab technicians, Amman, Jordan, April, 2005.

#### REVIEWER FOR SCIENTIFIC JOURNALS AND GRANTING AGENCIES

##### **JOURNALS**

- Jordan Journal of Biological Sciences (Jordan)
- Plant Disease notes, USA
- Journal of Infection and Chemotherapy, Elsevier journals, Japan
- Asian Journal of Biochemistry, Genetics and Molecular Biology, India.
- Indoor Built and Environment , UK
- Jordan Medical Journal, Jordan
- AIMS Microbiology. USA
- Microbial Pathogenesis, USA
- Infection and Immunity, ASM Press, USA
- Journal of Dairy Science, Elsevier, Netherland.
- Journal of Infection and Chemotherapy, Elsevier, Netherland.
- International Journal of Food Science and Technology, Willey, USA
- Asia Pacific Journal of Clinical Nutrition, China
- Nano Science and Technology Open Library Journal, USA
- Springer Plus Journal, Springer, USA
- Universal Journal of Microbiology, Horizon Research, USA

- BMC research Notes, (UK)
- Food and Agricultural Immunology, (UK)
- International Journal of Life Science and Medical Research (Hong Kong)
- Viral Immunology (USA)
- Comunicata Scientiae (Brazil)
- Molecular Biology Reports (Netherland)
- Journal of Microbial and Biochemical Technology (USA)
- Journal of Food and Agricultural Chemistry (USA)
- CyTa food Journal (Mexico)
- International Journal of Molecular Sciences (Switzerland)
- Indian Journal of Microbiology (India)
- Human and Experimental Toxicology (Finland).
- The Jordan Journal of Agricultural sciences (Jordan)
- International Journal of Medicine and Medical Sciences (Lagos)
- University of Sharja Journal of Pure and Applied Sciences (UAE)
- Research Muttah, (Jordan)

#### GRANTS, ABSTRACTS AND PROMOTIONS REVIEWING

- Reviewed proposal for the Scientific Research support funds administered by Jordan ministry of higher. Title; Isolation and characterization of bioactive peptides derived from local Jordanian Jameed.
- Reviewed research proposal for Showman Fund, ASHF. Title; The effects of long term exposure of sulfur on antioxidant potential and liver function in hot springs areas in Jordan
- Promotion to professor, Baghdad university, Faculty of Agriculture
- Promotion documents for Associate Professor in Microbiology, Al Azhar University at Gaza
- Research proposal on cyclodextrins effect on protection of antibiotics, for the UAEU, UAE
- Biblica Alexandria /Center for Special Studies and Programs (CCSP) Research Grants Reviewers Committee
- Reviewed two research proposals for Deanship of Research at Tabouk University in Saudi Arabia
- Reviewed research proposal for King Abdullaziz University Research Unit, KSA.
- Reviewed 11 abstracts for the First Iranian Conference on Biotechnology, 2007

#### PROFESSIONAL DEVELOPMENT & MEMBERSHIPS

**Associate Editor in Chief;** International Journal of Life Science and Medical Research, Hong Kong.

<http://www.jlsmr.org/EditorialBoard.aspx>

**Member of the Editorial board of the following Journals;**

- BMC Research Notes  
<https://bmcresnotes.biomedcentral.com/about/editorial-board>
- JSM Nanotechnology and Nanomedicine  
<http://www.jscimedcentral.com/Nanotechnology/editors.php>
- International Journal of Biotechnology and Food Sciences  
<http://sciencewebpublishing.net/ijbfs/board.htm>
- Universal Journal of Microbiology Research  
[http://www.hrpub.org/journals/jour\\_editorialboard.php?id=2](http://www.hrpub.org/journals/jour_editorialboard.php?id=2)
- Workshop on governance of high education institutes, February, 2012, Abu Dhabi.
- Elect member of JUST University Council, 2009/ 2010, & 2018/2019
- Professional Member of the American Society for Microbiology since 2000
- Attended the First conference on Ethics of Biology, Amman, Nov. 23-24, 2009
- Attended workshops in EndNote, and ABET Accreditation, JUST
- Food Safety Workshop/Ministry of Agriculture in conjunction with the European Union. Amman, Nov 29-30, 2010
- E-learning workshops, JUST, Sept. 2007, 2009
- SPSS work shop, JUST, 2011
- Administrator for the department of biotechnology webpage since 2006
- Building systems for comprehensive quality control workshop, 2009
- Member of the American Association for Cancer Research, 2008
- Measurement and evaluation workshop, JUST, July, 2005
- Solving disputes and negotiation management workshop 2005
- Fund and Investment Course, 2003
- University teaching workshop, Purdue University, Indian, USA, March, 2002.
- Food Safety Engineering Workshop, Purdue University-USDA, Indianapolis, Indiana, October, 3-4, 2001.
- Radiation Safety and Radio-isotope handling workshop, Purdue University, Indiana, USA, Dec. 1999
- Protein Purification Workshop (Held by Pharmacia Inc.), Winnipeg, Canada, January, 1997.
- Hazard Analysis and Critical Control Points (HACCP), University of

Manitoba, January-April 1994.

- Immunoassay Workshop for Environmental and Agri-Food Sciences, Winnipeg Canada, April 27-28, 1994.

#### CONFERENCE PREPARATION

I was the Scientific Chair for Nursing Conference which was organized by Fatima College of Health Sciences (FCHS), in Abu Dhabi, March 14-15, 2012.

I was an active member for the preparation of the Faculty of Science Scientific Day for years, 2005 and 2006.

#### REFERENCES

##### **Dr. Abdullatif Al-Shamsi**

Director General, Higher Colleges of Technology, UAE  
Dubai, UAE  
Email; [alshamsi@hct.ac.ae](mailto:alshamsi@hct.ac.ae)  
Tel; + 00971502422242

##### **Dr. Rida A Khawaldeh**

Former, Member of the Jordan Senate House  
Former Minister of Agriculture  
Former President of Mutaa University  
Email: [r.shibli@ju.edu.jo](mailto:r.shibli@ju.edu.jo)  
Tel: 00962796862222

##### **Dr. Ahmed Betieha**

Former Vice President, Jordan University of Science and Technology  
P. O Box 3030  
Irbid, 22110 JORDAN  
Email; [betieha@just.edu.jo](mailto:betieha@just.edu.jo)  
Tel: 96227201000 ext. 23462

##### **Dr. Akif Kasra,**

Vice President, operations  
SA Scientific Inc.  
4919 Golden Quail  
San Antonio, TX 78240 USA  
Email: [Akifkasra57@yahoo.com](mailto:Akifkasra57@yahoo.com)

**Dr. Arun K. Bhunia**

Professor "Molecular Food Microbiology"  
Department of Food Science  
Purdue University  
West Lafayette, IN 47907 USA  
Email: [Bhunia@purdue.edu](mailto:Bhunia@purdue.edu)

**Dr. Ronald Marquardt**

Professor Emeritus "Nutritional Biochemistry"  
Department of Animal Science  
University of Manitoba  
Winnipeg, MB, R3T 2N2 CANADA  
Email: [rr\\_marquardt@umanitoba.ca](mailto:rr_marquardt@umanitoba.ca)

**Dr. Jerzy Zawistowski**

Academic Director at Food, Nutrition and Health;  
University of British Columbia, Canada  
Tel; 604 822-9449  
Email: [jerzy.zawistowski@ubc.ca](mailto:jerzy.zawistowski@ubc.ca)  
Vancouver, BC. FNH 209, 2205 East Mall