

Jordan University of Science and Technology

Associate Professor of Microbiology and Biotechnology
Department of Biotechnology and Genetic Engineering

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Google scholar citation page;

<http://scholar.google.com/citations?user=ktSQLdwAAAAJ&hl=en>



ZIAD W. JARADAT, PHD

CV HIGHLIGHTS

- Vice Dean Graduate Studies, JUST, March 2016 till Aug 31, 2016
- Joined JUST Sept. 2004 as Assistant Professor and promoted to Associate Professor in Sept. 2009.
- 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.
- **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 Universal Journal of Microbiology Research, Horizon Publications.
- Member of the **Editorial board** of Advance in Microbiology Research, USA
- Member of the **Editorial board** of the JSM Nanotechnology and Nanomedicine, USA.
- Supervised **8** MSc students as main advisor and **10** MSc students as co-advisor
- Examiner on **8** MSc thesis in JUST and Jordan University.
- Published **53** articles, Editorials, reviews, proceedings, books and chapters.

- Present research work in **32** 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).
- Deposited 9 new *Cronobacter* isolates from Jordan in the Egyptian Microbial Culture Collection (EMCC).
- Obtained **12** grants as principal investigator and **10** grants as co-investigator.
- Member Elect in the **University Council**, 2009/2010. (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 2012
Citations	1035	572
H index	18	15
i10 index	24	18

Research Gate

RG Score 28.94
 H-index 16
 Impact points; 91.49
 Total citations 824

Scopus

H-Index 15
 Citations 663

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 Foods 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

- 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
- 09/09 Associate Professor:** Department of Biotechnology and Genetic Engineering & and the Department of Applied Biological Science, 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 & and the Department of Applied Biological Science,

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*.
- Developed fiber optic biosensor for the detection of *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 thionine.
- 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;
 - 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.
 - Understanding mechanisms of pathogenesis using molecular and immunological principles.
2. Genetics of Obesity
 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 Laboratory Techniques (Instrumental analysis) FN 703
 - Food Biotechnology FN 776
 - Environmental pollution NR 764
 - Special Topics Bio 791
 - Graduate Seminar Bio 791
 - Advanced Microbiology, Bio 731
- **BSc.**
 - General Biology 102, 102, 103
 - General Microbiology , Bio 231
 - Basic Biotechnology, BT 232
 - Bio-computing BT 301
 - Field Training BT 399
 - Animal Biotechnology , BT 411
 - Microbial Biotechnology (Applied Microbiology) BT 432
 - Protein Biotechnology, BT 454
 - Seminar BT 492
- E-Learning using the **Moodle program** for effective communication with students.

TEACHING ACTIVITIES AT FCHS

- Medical Microbiology and Immunology (pharmacy Dept.)
- Medical laboratory analysis
- General Biology

Accreditation Experience

- 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).

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.
- Development of BSc study plans in Biology and Biotechnology for Madaba University
- 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 Neutraceutical 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)**

- Waseem Al Musa; Virulence characterization of food and clinical isolates of *Cronobacter sakazakii*. (Graduated, in conjunction with Dr Ahmed Beteiha as I was spending sabbatical in UAE).
- 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)

- 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 streptomycetes and their potential to degrade different fruit pomaces. (Graduated)
- Ruqaiyah 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).

- Majduleen 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

- 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)

Supervision of Undergraduate Projects

- Qutaibah Ababneh
- Abrar Rashdan
- Deema Sultan
- Nabeel Rashdan

GRANTS FUNDED AS PRINCIPAL INVESTIGATOR

1. 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).
2. Molecular characterization of *Salmonella enteritidis* outbreak strains and their genotypic and phenotypic relationship to poultry isolates. (Funded by Deanship of Research at JUST).
3. 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).
4. Antigenic and allergenic differences between different olive tree varieties found in Jordan, (Funded by Deanship of Research at JUST).
5. Production of monoclonal antibodies to *Enterobacter sakazakii* surface antigens. (Funded by Research Deanship at JUST)
6. Characterization of monoclonal antibodies produced against *E. sakazakii*. (Funded by Deanship of Research at JUST).
7. 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)
8. Virulence characterization of *Enterobacter sakazakii*, an infant formula pathogen. (Funded by Research Deanship at JUST)
 9. Studying the prevalence of the obesity genes among school children (6-18) in Jordan using PCR-RFLP and DNA sequencing. (Funded by the University of Jordan).
 10. Occurrence, distribution, and pattern analysis of methicillin –resistant *Staphylococcus aureus* (MRSA) on fomite in public facilities. (Funded by Research Deanship at JUST)
 11. Frequency of Human papilloma virus types and gene expression using DNA microarray in Transitional cell carcinoma patients. (Funded by Research Deanship at JUST).
 12. 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. Identification of diagnostic and prognostic markers for bladder cancer (Funded by ASTF, UAE)
2. Investigating the microbiological safety of shawarma sold in Jordan. (Funded by Research Deanship at JUST).
3. Screening of chitinolytic Streptomyces isolated from Jordanian soils; characterization, purification and optimal production conditions (Funded by Deanship of Research at JUST).
4. Enzymatic, antibiotic and degradation activities of hydrocarbon-polluted soil Streptomyces. (Funded by Deanship of Research at JUST).
5. The role of bacillus species and bacterial proteinases in sweet curdling of UHT flavored milk. (Funded by Deanship of Research at JUST).
6. Cellulolytic and pectinolytic soil *Streptomyces* and their potential to degrade different fruit pomaces. (Funded by Deanship of Research at JUST).
7. Studies on the diversity of *Streptomyces* in hydrocarbon polluted soil. (Funded by Deanship of Research at JUST).
8. Isolation and molecular characterization of Salmonella species from poultry products. (Funded by Deanship of Research at JUST).
9. Molecular surveillance of norovirus in Al-Zarqa basin, Jordan. (Funded by Deanship of Research at JUST).
10. 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. Steve Forsythe (Ireland)
5. Dr. Richard A Holley (Canada)
6. Dr. Hayder Al Domi, Jordan University
7. Dr. Wael Hayagneh, (JUST)
8. Dr. Akram Al Aboudi, (JUST)
9. Dr. Ismail Saadoun, (UAE)
10. Dr. Mustafa Ababneh (JUST)
11. Dr. Anas Al- Nabulsi, (JUST)
12. Dr. Tareq Osaili, (JUST)
13. Dr. Reyad Shaker (JUST)
14. Dr. Yaser Tarazi (JUST)
15. Dr. Qutaibah Ababneh (JUST)
16. Dr. Ahemd El Beteiha (JUST)

REFEREED PUBLICATIONS

1. Amin N. Olaimat, Anas A. Al-Nabulsi, Tareq M. Osaili, Murad Al-Holy, Mutamed M. Ayyash, Ghadeer F. Mehayar, **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.

2. **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*. (Accepted)
3. 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. (Accepted).
4. **Ziad W Jaradat**, Qutaiba O Ababneh, Shahd Sarairoh, Thamer Abdullhalim, Waseem Al Mousa¹, 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.
5. Sadeq A Qodcieh , Suzane N Al-Khateeb, **Ziad W Jaradat**, Elham S Abu Alhaija. Force degradation of orthodontic latex elastics: an in vivo study. *American Journal of Orthodontic and Dentofacial Orthopics*. (Accepted).
6. Anas A. Al-Nabulsi, Amin N. Olaimat, Tareq M. Osaili, Heba M. Obaidat, **Ziad W. Jaradat**, Reyad R. Shaker, Richard A Holley. 2015. Recovery and Behaviour of Stressed *Escherichia coli* O157:H7 Cells on Rocket Leaf Surfaces Inoculated by Different Methods. *Italian Journal of Food science*. Accepted (April, 13th, 2015).
7. Al-Nabulsi AA, Olaimat AN, Osaili TM, Ayyash MM, Abushelaibi A, Jaradat ZW, Shaker R, Al-Taani M, Holley RA. 2015. 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
8. 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.
9. 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.

10. **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.
11. 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.
12. 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
13. **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(5):601-10.
14. **Jaradat ZW**. 2013. Genetics beyond diabetes and baldness. *Advancements in Genetic Engineering*. 3:e105. doi: 10.4172/2169-0111.1000e105. **Editorial**.
15. **Jaradat ZW**. 2013. Nanotechnology and its role in advancing Medicine. *JSM Nanotechnol Nanomed* 1(2): 1012. **Editorial**
16. 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
17. 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.
18. 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.
19. 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.

20. 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.
21. 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.
22. **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.
23. **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.
24. Akram Al Aboudi, **Ziad W Jaradat**, Mahmoud Shatnawi (2012). Biotypes and Entertoxigenicity of *Staphylococci* Isolated from Camel's Meat in Jordan. *British Microbiology Research Journal*. 2(1): 23-35.
25. **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
26. **Ziad W Jaradat**, Alaa Al Bzour, Qotaibah Ababneh, Saleh Shdiefat, Saied Jaradat and Hayder Al Domi (2011). Identification of allergenic pollen grains in thirty six olive (*Olea europaea*) cultivars grows in Jordan. *Food and Agricultural Immunology*. 23: 255-264.
27. **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.
28. 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.

29. 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.
30. 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.
31. **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.
32. **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
33. 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.
34. 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.
35. 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*. 24:2191-2198.
36. **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.
37. 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.

38. **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**)
39. 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.
40. **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.
41. Kwang-pyo K., Jagadeesan, B., Burkholder, 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.
42. **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**).
43. **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.
44. 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.
45. **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.
46. **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.
47. 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.

48. **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.
49. **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.
50. 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.
51. **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
52. **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.
53. **Jaradat, Z. W.** and Zawistowski, J. (1998). Antigenically stable 35 kDa outer membrane protein of *Salmonella*. *Food and Agricultural Immunology*. 10: 257-270.
54. **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.
55. **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. 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).
2. 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.
3. 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.
4. **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.

5. 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.
6. **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. 4th congress of European Microbiologists. Geneva, Switzerland, 2011.
7. 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. 4th congress of European Microbiologists. Geneva, Switzerland, 2011.
8. Al-Nabulsi, A. A., Shaker, R. R. **Jaradat, Z. W.**, and Holley R. A. Survival of *Salmonella enteritidis* in tahini (sesame paste). 4th congress of European Microbiologists. Geneva, Switzerland, 2011.
9. Ababneh, Q., Saadoun, I., **Jaradat, Z. W.** and Meqdam, M. Molecular surveillance of **enteric viruses** in Al-zarqa River. ASM 110th General Meeting. San Diego, CA, USA, 2010. Page 80.
10. **Jaradat, Z.W.** Human Papilloma Virus and Cervix Cancer. The second Jordanian Conference for Medical Technology. June 24-26. Amman Jordan. (Invited Oral Presentation).
11. **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 110th General Meeting. San Diego, CA, USA, 2010. Page 67.
12. 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 110th General Meeting. San Diego, CA, USA, 2010. Page 58.
13. Alnabulsi, 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 110th General Meeting. San Diego, CA, USA, 2010. Page 58.

14. **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 109th General Meeting, Philadelphia, PA, USA, **2009**. Page 77.
15. 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
16. 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 109th General Meeting, Philadelphia, PA, USA, **2009**. Page 76.
17. 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 109th General Meeting, Philadelphia, PA, USA, **2009**. Page 56.
18. **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**.
19. 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**.
20. 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 100th Meeting, Dead Sea, Jordan, **2008**. pp 91.

21. **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 107th General Meeting, Toronto, Canada, **2007**.
22. **Jaradat, Z. W.**, Dwaghreh, A. and Saadoun ,I. Cellulytic and pectinolytic soil *Streptomyces* and their potential to degrade different fruit pomaces. ASM 106th General Meeting, Orlando, Florida, USA, 2006.
23. 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^{ed} General Meeting, Washington DC. USA, 2003. pp 490.
24. 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^{ed} General Meeting, Washington DC. USA, 2003. pp 490.
25. **Jaradat, Z. W.** and Bhunia A. K. Variation in adhesion and invasion behavior among different serotypes of *Listeria monocytogenes* to Caco-2 cells. ASM 102nd General Meeting, Salt Lake City. Utah. USA, 2002. pp 376.
26. 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 102nd General Meeting, Salt Lake City, Utah, USA, 2002. pp 370.
27. **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 101st General Meeting, Orlando, Florida, USA, 2001. pp 562-563.
28. **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 101st General Meeting, Orlando, Florida, USA, 2001. pp 49.
29. **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.
30. **Jaradat, Z. W.** and Marquardt, R. R. Therapeutic anti-idiotypic antibodies to *E. coli* K88 as an alternative to antibiotic use in meat industry. 86th Annual Meeting

of IAFP (former IAMFES), Dearborn, Michigan, **USA**, 1999. **(Won the first prize in the poster section in the Developing Scientists Competition).**

31. **Jaradat, Z. W.** and Zawistowski, J. Antigenically stable 35 and 24 kDa outer membrane proteins of *Salmonella*. 82nd Annual Meeting of IAFP (former IAMFES), Pittsburgh, PA, USA, 1995. **(Oral presentation).**
32. **Jaradat, Z. W.** and Zawistowski, J. Specificity of four monoclonal antibodies produced against *Salmonella typhymurium*. 82nd 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

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

- 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)

- 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

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;

- 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.
- Member of the **Faculty council**, 2005, 2007/2008/2009/2010.
- 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 8th and 9th 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;

- Chairman of the committee of the study plan , 2007-2010
- Chairman of the committee for the graduate studies, 2007-2010
- 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 8th and 9th 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-present

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.
- 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 Word
- Microsoft Power point
- Microsoft Excel

- Microsoft Publisher
- Adobe Acrobat
- SPSS (Making dendrograms or phylogenetic trees)
- NCBI DNA and protein software's

INVITED SPEAKER AND SEMINARS

Corona Virus and Respiratory diseases; Fatima College of Health Sciences, Ain and Abu Dhabi, 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 14th 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

- 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)
- Research Muttah, (Jordan)
- International Journal of Medicine and Medical Sciences (Lagos)
- University of Sharja Journal of Pure and Applied Sciences (UAE).
- Jordan Journal of Biological Sciences (Jordan)

GRANTS, ABSTRACTS AND PROMOTIONS REVIEWING

- 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;

- JSM Nanotechnology and Nanomedicine
<http://www.jscimedcentral.com/Nanotechnology/editors.php>
- International Journal of Biotechnology and Food Sciences
<http://sciencewebpublishing.net/ijbfs/board.htm>
- Advances in microbiology research
<http://www.edinwilson.org/journal/amr/editorialBoard.aspx>
- Advances in Genetic Engineering
<http://www.omicsgroup.org/journals/editorialboardAGE.php>
- Universal Journal of Microbiology Research
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
- 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, 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.

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