

CURICULUM VITAE

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SUMMARY OF EXPERTISE AND ACCOMPLISHMENTS

- Extensive ability in medical and allied medical college's establishments inside Jordan.
- Extensive research in bacterial antibiotic resistance and molecular diagnosis of infectious diseases
- Research expertise in molecular biology and Nosocomial infection control
- Proven record in teaching college material including medical microbiology, diagnostic microbiology, infectious diseases, microbial genetics, and molecular biology
- Excellent administrative and management skills
- Excellent presentation style (national and international meetings)
- Critique of research manuscripts submitted to peer-reviewed journals,(Jordan Journal of Biological Sciences, BMC Microbiology, Journal of Diagnostic Microbiology and infectious diseases and Journal of Medical Microbiology
- Participation in increasing the public health awareness in the local society, through lectures and seminars for students and public.
- Establishment of independent collaborations with national and international investigators.
- Exceptional skills in team work, problem solving, and interpersonal communication.

PERSONAL INFORMATION

Country of citizenship: Jordan
Country of birth: Saudi Arabia
Date of birth: March 1, 1975
Marital status: Married; two boys and one girl

EDUCATION

12/1998-2/2004 **Ph.D., Medical and Molecular Microbiology (Bacteriology and Virology)**
Graduate Program in Microbiology
Medical School, National University of Athens, Athens, Greece
Dissertation: The prevalence of *Staphylococcus* species -clinical strains- with decreased sensitivity to mupirocin and investigating the responsible resistance mechanisms.

9/1992-6/1997 **(BVM&S), Veterinary Medicine & Surgery**
Mousel University, Mousel, Iraq

EDUCATIONAL COURSES

21 Feb 2019 2019 ARS - C6 Introduction to Strategic Leadership Principles for Biorisk Management, by ABSA courses, Baltimore, MD, USA

21 Feb 2019 2019 ARS - C2 Animal Disease Response Training: Kansas State University National Agricultural Biosecurity Center, by ABSA courses, Baltimore, MD, USA

- 15 Oct 2018 2018 PC03 - Shipping Infectious Substances Certification Course, ABSA courses, Charleston, SC, USA
- 15 Oct 2018 2018 PC10 - Introduction to Biosafety in the Clinical Setting ABSA courses, Charleston, SC, USA
- 5/2015 **Daniel Turnberg Travel Fellowship/welcome trust**, short training course in hospital infection prevention in PHE, 61 Colindale, London, UK. Summer 2015
- 3/2015 **ESCMID Postgraduate Education Course** “New Perspectives in Infection Control” held in Kayseri, Turkey, from 12 – 14 March 2015.
- 6/2013 **ESCMID Observership** at the Department of Microbiology, National School of Public Health, research laboratories, Vari Attiki, Greece, 22/5/13 to 14/6/13
- 7/2012 **Daniel Turnberg Travel Fellowship**, short scientific visit to the Health protection Agency, 61 Colindale, London, UK, 25/6/2012-27/7/2012

SCHOLARSHIPS AND FELLOWSHIPS

- 9/1992-8/1997 **Bachelor study in veterinary medicine and surgery**, Ministry of Higher Education, Jordan
- 1/2000-1/2004 **Doctoral fellowship**, The National University of Athens, The State Scholarship Foundation, Athens, Greece

PROFESSIONAL POSITIONS

- 9/2010-9/2015 **Infection Control Unit Supervisor**
Al-karak Governmental Hospital, Mutah, Jordan
- 7/2005-1/2008 **Molecular Biologist**
CML Laboratories, Amman
- 12/2002-9/2004 **Molecular Biologist**
BIOFORMA Laboratories, Athens, Greece
- *Supervising the molecular biology lab at BIOFORMA and CML laboratories*
 - *Conducting molecular diagnosis of various human infectious diseases, using multiple methods of Polymerase chain reaction (PCR)*

ACADEMIC AND TEACHING EXPERIENCE

- Expertise in areas of medical microbiology, medical parasitology, medical virology, microbial genetics, diagnostic microbiology and general biology
- A commanding knowledge in other fields such as clinical immunology and molecular biology

- 9/2013-current **Associate Professor**
Faculty of Medicine, Microbiology and Immunology department
- Mutah University, Mu'tah, Jordan
Teaching general microbiology, medical microbiology, infectious diseases and zoonoses as individual courses or integrative modules through problem based learning sessions and classical lecturing and student's seminars supervision
 - *Participating in the examination committees and panels for many postgraduate thesis discussions.*

- 9/2015-7/2017 **Associate Professor, in a Sabbatical leave**

- Al-Ghad International Medical Science Colleges, Al-Madinah Al-Munawarah, Saudi Arabia
- 9/2014-9/2015 *Teaching general microbiology, medical microbiology, diagnostic microbiology*
Assistant Dean, for medical education and examinations, Faculty of medicine
 Mutah University, Mu'tah, Jordan
- 9/2008-9/2013 **Assistant Professor**
 Faculty of Medicine
 Mutah University, Mu'tah, Jordan
- *Teaching general microbiology, medical microbiology, infectious diseases and zoonoses as individual courses or integrative modules*
 - *Student's seminars supervision, examination preparation and participation in invigilation.*
 - *Participation in the modules coordination.*
- 9/2004-8/2008 **Assistant Professor**
 Department of Medical Technology
 Zarqa Private University, Zarqa, Jordan
- *Teaching general and medical microbiology courses to medical laboratory-oriented students*
- 9/2004-6/2006 **Visiting-Assistant Professor**
 Department of Biotechnology, Faculty of Science
 Hashemite University, Zarqa, Jordan
- *Teaching a microbial genetics course to biotechnology-oriented students*

ADMINSTARATIVE AND MANGEMENT SKILLS

- 9/2017-7/2019 Chairman, committee of electronic learning and library, Mutah University, Mutah, Jordan
- 9/2017-7/2019 Member other committees like, quality control and accreditation and international cooperation, Mutah University, Mutah, Jordan
- 9/2015-7/2017 Chairman, committee of the students counseling and students rights, Al-Ghad International Medical Science Colleges, Al-Madinah Al-Munawarah, Saudi Arabia
- 2014-2015 Assistant Dean, for medical education and examinations, Faculty of medicine Mutah University, Mutah, Jordan
- 9/2013-9/2015 Member, faculty of science council, Mutah University, Mutah, Jordan
- 9/2012-9/2015 Member, medical laboratory sciences council, Mutah University, Mutah, Jordan
- 9/2009-9/2015 Member, committee of faculty examination (basic sciences), Mutah University, Mutah, Jordan
- 9/2009-9/2015 Member, committee of research laboratory development, Mutah University, Mutah, Jordan
- 9/2010-9/2012 Chairman, Microbiology and immunology department, Faculty of Medicine, Mutah University, Mutah, Jordan
- 9/2010-9/2012 member, higher committee for faculty accreditation, Faculty of Medicine, Mutah University, Mutah, Jordan
- 9/2010-9/2012 Member, committee of establishing new faculties in the university, (medical laboratories sciences, Pharmacy and veterinary medicine), Mutah University, Mutah, Jordan
- 9/2009-9/2012 Member, committee of faculty conferences and workshops organization, Mutah University, Mutah, Jordan
- 9/2011-9/2012 member, committee of staff health and public safety in the laboratories of Mutah University, Mutah, Jordan

2008-2014	Many other faculty and university committees like e learning committee, conferences scientific committees, scientific research committee and medical program evaluation, Mutah University, Mutah, Jordan
9/2010-9/2015	Member, committee of higher quality council, Alkarak hospital, Jordan
9/2010-9/2015	Member, committee of yearly national goals for quality and health care achievement, Alkarak hospital, Jordan
9/2012-9/2015	Member, committee of antibiotic stewardship, Alkarak hospital, Jordan
9/2012-9/2015	Member, committee of medical waste, Alkarak hospital, Jordan

RESEARCH INTERESTS:

- Project title (Analyzing spread of anthrax in farms in Pakistan and Jordan) Ecological and biological study of Anthrax spores in various animal and environmental samples and spores survival in suspected insect as new transport vehicle to human and animals. A project funded by DTRA, USA in cooperation with Professor Adam Driks, Department of Microbiology and Immunology, Loyola University Medical Center, Maywood IL, USA. 1/2018-1/2021
- Molecular characterization of viral respiratory infections in children including, Influenza, RSV, Adeno and corona viruses. (co researcher, 2015-2016 funded by Mutah university)
- Ecology and Molecular Epidemiology of MRSA and CRE isolates and its impact on human health. Joint project with Professor Neil Woodford, Dr Angela Kearns, from Public health England. funded by Daniel Turnberg Travel Fellowship/welcome trust
- Infections caused by Gram negative bacteria in the unfortunate Syrian refugees in Jordan, epidemiological and molecular study. Joint project with Professor David Paterson, Professor Timothy Walsh and Dr Hosam Zowawi, University of Queensland, Australia. Project Duration 1 year 2014-2015
- Molecular epidemiology of Brucella isolates from human and animal samples. In cooperation with Dr. Giuliano Garofolo DVM, Bacteriology Unit, OIE Reference laboratory for Brucellosis, IZS Abruzzo e Molise "G. Caporale", Teramo, Italy
- Bio-Molecular epidemiology of *Bacillus anthracis*, *Burkholderia mallei*, *Burkholderia pseudo mallei*, *Yersinia pestis*, animal and human sources. international cooperation research between Italy and Jordan, headed by Dr Antonio Fasanella, zooprofilatico institute, Foggia, Italy
- Epidemiological and biological study on the prevalence of Enterobacteriaceae-ESBL and Carbapenemase producers among Jordanian hospitals.
- Epidemiological and biological study on the prevalence of MRSA (Methicilline resistant *S. aureus*) and extended spectrum B-lactamases gram negative bacteria, Multi drug resistant among Jordanian hospitals.
- Detection of Nanobacteria and Nanobacteria specific Antibodies in Patients Afflicted by Kidney Stone, Gallbladder stones, Atherosclerosis, Periodontal Diseases and Other diseases in Jordan.
- Evaluating and setting up molecular methods for detecting infectious diseases especially those causing human cancers.

RESEARCH FUNDING

1/2018	Project title (Analyzing spread of anthrax in farms in Pakistan and Jordan). A project funded by DTRA, USA in cooperation with Professor Adam Driks, Department of Microbiology and Immunology, Loyola University Medical Center, Maywood IL, USA. 1/2018-1/2021 fund amount (2,000,000 \$)
8/2014	Infections caused by Gram negative bacteria in the unfortunate Syrian refugees in Jordan, epidemiological and molecular study.

International society of infectious control, small grants, USA (6000 \$)

- 10/2013 **Molecular characterization of viral respiratory infections in children including, Influenza, RSV, Adeno and corona viruses.**
Deanship of Research and Graduate Studies, Mu'tah University (5000 JOD)
- 8/2012 **Bio-Molecular epidemiology of *Bacillus anthracis*, *Burkholdria mallei*, *Burkholdria pseudo mallei*, *Yersinia pestis*, animal and human sources.**
(Funded by Italy government with (117000 Euro) international cooperation research between Italy and Jordan)
- 3/2012 **Nasal carriage and molecular characterization of methicillin-resistant *Staphylococcus aureus* isolates from healthcare workers and other healthy individuals from Al-Karak community**
Deanship of Research and Graduate Studies, Mu'tah University (2500 JOD)
- 10/2008 **Epidemiological and biological study on the prevalence of MRSA (methicillin resistant *S. aureus*) among Jordanian hospitals. Genetic study**
Deanship of Research and Graduate Studies, Zarqa Private University (\$7,200)
- 11/2005 **Attempts for detection of nanoparticles-nanobacteria and distribution of their antibodies in Jordanian patients with urolithiasis**
Deanship of Research and Graduate Studies, Zarqa Private University (\$5,720)

HONORS AND AWARDS

- 2/2019 **Travel support/ CRDF** to attend USDA ARS 5th International Symposium in Baltimore, Maryland, USA, February 11-14, 2019
- 5/2015 **Daniel Turnberg Travel Fellowship/Welcome trust**, scientific visit up to 3 months to the Public health England, 61 Colindale, London, UK. Summer 2015
- 3/2015 **ESCMID Postgraduate Education Course fellowship** "New Perspectives in Infection Control" held in Kayseri, Turkey, from 12 – 14 March 2015.
- 6/2013 **ESCMID observership** at the Department of Microbiology, National School of Public Health, research laboratories, Vari Attiki, Greece, 22/5/13 to 14/6/13
- 7/2012 **Daniel Turnberg Travel Fellowship**, scientific visit to the Health protection Agency, 61 Colindale, London, UK, 25/6/2012-27/7/2012
- 5/2012 **Full course fellowship**, ESPID, 30th Annual Meeting of the European Society for Paediatric Infectious Diseases, Thessaloniki, Greece from May 8-12, 2012
- 3/2011 **BioVision.Nxt 2011 fellowship**, programme for young scientists of BioVision, 7th world life sciences forum, March 27-29, 2011-Lyon, France
- 10/2010 **Roche/IFCC travel scholarship**, XII Asian Pacific Congress of Clinical Biochemistry (APCCB), October 3 to 7, 2010, Seoul, S. Korea.
- 9/2010 **Full travel scholarship**, Higher Council for Science and Technology, SRTD project, 14th International Biotechnology Symposium and Exhibition, Palacongressi, Rimini, Italy, 14-18 September 2010

- 6/2009 **Full course fellowship**, European society for pediatric infectious diseases, Brussels, Belgium
- 8/2008 **Academic Excellence Certificate**, Allied Medical Sciences Department, Zarqa Private University
- 2/2008 **Young scientist Travel Award**, ICGEB, Cape Town, South Africa
- 5/2005 **Full course fellowship**, European School of Genetic Medicine, Bertinoro, Italy

WORKSHOPS AND TRAINING

- Oct. 8-9, 2018 **Training at Argonne National Laboratory**, draft SOPs and reviewed including: Mapping & surveying, Sample collection & handling, Packaging & transport, Record keeping, CDC approved protocol for the inactivation of B. anthracis, BSL-2 laboratory safety. Training covering ELISA, PCR and the CDC kill protocol. Tours of the HTRL BSL-3 Laboratory and the NGS Core Facility. Biosafety training courses: BIO200 – Biosafety training for BSL-2 Laboratories, ESH536RES - Biosafety training for Bloodborne pathogens, ESH115 – Laboratory Safety Training, ESH195 – Personal Protective Equipment, ESH455 - Infectious Substances Transportation Training
Argonne National Laboratory, Chicago, IL, USA
- 26-29/11/2017 **One health consultative workshop** for development of the national action plan on antimicrobial resistance for Jordan. WHO. Amman, Jordan.
- 6/2015-8/2015 **Daniel Turnberg Travel Fellowship/welcome trust**, short training course in hospital infection prevention in PHE, 61 Colindale, London, UK. Summer 2015
- 22/5/13 to 14/6/13 **Central Public Health Laboratory establishment**, National School of Public Health, Vari Attiki, Greece. Training in molecular characterization of Carbapenemase-producing Enterobacteriaceae (CPE) from human samples
- 4-8/9/2012 **Istituto Zooprofilattico sperimentale of Puglia and Basilicata, FOGGIA, ITALY**. Training on field. Isolation of Bacillus anthracis from environmental samples
- 25-6-2012-27/7/2012 **Health protection Agency**, Colindale 61, London
Bacterial molecular characterization of MRSA and ESBL strains Isolated from Jordanian Patients and the community
- 29-30/1/2011 **Laboratory tourniquets for microbial diagnosis**, Medical school, university of Jordan, Amman, Jordan
- 12-14/6/2009 **Laboratory quality control workshop**, Amman, Jordan
- 1-9/3/2008 **Theoretical Course in "The Molecular and Cellular Basis of Infection"**
Cape Town, South Africa
- 12/2007 **E- learning portal**, Zaraqa Private University

- 15-21/5/2005 **18th Course in Medical Genetics**, Bertinoro di Romagna, Italy
- 1/3-1/5/2001 **Training in the molecular detection techniques for Antibiotic resistant genes in bacteria**, Hellenic Pasteur institute. Athens, Greece
- 1/5-1/6/1999 **Genotype of bacterial DNA by means of Pulsed Field Gel Electrophoresis**, microbiology department, medical school of Laresa, Greece

AFFILIATIONS

- 2012-current British Society for Antimicrobial Chemotherapy (BSAC)
- 2008-2010 European Society for pediatric infectious diseases (ESPID)
- 2008-current The European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
- 2008-current Zahr Al-Basatein charity for children and mothers care, Jordan
- 2007-current Jordan Society for Medical Laboratory Sciences

MEETING ORGANIZATION

- 4/ 2011 **The 7th scientific conference of the** Faculty of Medicine, University of Mutah
- 5/ 2010 **The 6th scientific conference of the** Faculty of Medicine, University of Mutah
- 4/ 2009 **The 5th science day of the** Faculty of Medicine, University of Mutah
- 4/ 2008 **Genomics and proteomics technologies conference.** Faculty of Allied Medical Sciences, Zarqa Private University
- 11/2007 **Nursing medical day.** Nursing college, Zarqa Private University

PANEL DISCUSSIONS

- 4/2007 **Pathology Molecular group 1.** Yarmouk University, Irbid, Jordan
- 10/2007 **Pathology Molecular group 2.** National center for endocrine and diabetes, Amman

INVITED TALKES

1. Characterisation of carbapenemase-producing Enterobacteriaceae (CPE) from patients in Amman, Jordan. Faculty of medicine 11th scientific conference, Movenpick Resort & Spa Dead Sea, Jordan 15-16/3/2018.
2. Anthrax in Jordan, the second conference of the infectious diseases and vaccine center, updates in infectious diseases and antibiotic resistance in Jordan, Landmark hotel, Amman, Jordan 12/12/2018.
3. Molecular epidemiology of Anthrax in Jordan. Kick off meeting day of the DTRA group, Intercontinental hotel, Amman, Jordan 23/10/2017.
4. Carbapenemase-producing *Klebsiella pneumonia* prevalence in a hospital in Amman. Pharmacy scientific day, Mutah University, 22/4/2015.
5. Extended-Spectrum Beta-Lactamases (ESBL) Enterobacteriaceae isolated in Jordan, epidemiological and molecular study. Jordan Society for Medical Laboratory Sciences (JSMLS) Annual Meeting (Amman, March 23-25, 2013)
6. Nanobacteria, infection and diagnosis. The 2nd Jordanian Conference for Medical Laboratory Sciences 'The Importance of Medical Labs' 24-26 June, 2010, Princess Sumaya University for Technology – Amman.
7. Antibiotic gene detection by molecular techniques in MRSA. Jordanian International Pharmaceutical Conference 2006 (JIPC 15-17 November 2006) At Al-Zaytoonah Private University. Amman, Jordan.
8. Avian influenza, special educational lecture, At Al-Zaytoonah Private University. Amman, 21/12/ 2005

9. The prevalence of Staphylococcus species -clinical strains- with decreased sensitivity to Mupirocin and investigating the responsible resistance mechanisms. Scientific program, 4/2008, Mu'tah University. Al-Karak
10. Genetic study of the MRSA clinical strains. 9/2004, Zarqa Private University. Zarqa

MEETING PRESENTATIONS

1. **Aqel A.** Rare occurrence of Mupirocin resistance among Staphylococcus isolates in Jordan. International Conference on Antimicrobial Stewardship, December 1 - 2, 2013, King Fahad Medical city, KSA. (Poster)
2. **Aqel A.** Molecular epidemiology of Anthrax in Jordan. International Conference on *Bacillus anthracis*, *Bacillus cereus*, and *Bacillus thuringiensis* known as the "Bacillus ACT" meeting, September 1-5, 2013, in Victoria, Canada (Oral)
3. **Aqel A.** The Incidence of Mupirocin resistance among Staphylococcus spp. From Jordanian children, ESPID, 30th Annual Meeting of the European Society for Paediatric Infectious Diseases, Thessaloniki, Greece from May 8-12, 2012 (Poster)
4. **Aqel A.** Staphylococcus sp. MDR. XII Asian Pacific Congress of Clinical Biochemistry (APCCB), October 3 to 7, 2010, Seoul, S. Korea (Poster)
5. **Aqel A.** Rare Incidence of Clinical Staphylococcus sp. isolates from Jordanian Hospitals with decreased susceptibility to mupirocin. The 7th Arab Conference for Antimicrobial Agents, November 6 to 8, 2009, in collaboration with the World Health Organization under the auspices of the Lebanese Ministry of Health, Commodore Hotel, Beirut, Lebanon (Oral)
6. **Aqel A.** Nanobacterial infections. The 27th Annual Meeting of the European Society for Paediatric Infectious Diseases, *ESPID* 2009, Brussels, Belgium, June 9-13, 2009. (Poster)
7. **Aqel A.** MRSA endonosomal infections and molecular diagnosis. Theoretical Course in "The Molecular and Cellular Basis of Infection" 29 February - 9 March 2008 Cape Town, South Africa. (Poster)
8. **Aqel A.** Mupirocin resistant staphylococci spp. Genetic study. The 5th Arab Conference for Antimicrobial Agents, October 18-20.2007 Faculty of Medicine University of Jordan, Amman. (Oral)
9. **Aqel A.** The prevalence of multi drug resistant Staphylococcus species from the clinical strains. The first Hellenic conference for microbiology and clinical microbiology. 3/2000, Athens. (Poster)

MEETING ATTENDANCE

1. USDA ARS 5th International Symposium in Baltimore, Maryland, USA, February 11-14, 2019
2. ABSA Conference, 2018, 61st Annual Biological Safety Conference, Charleston, South Carolina October 12-17, 2018
3. BSAC Spring Meeting & AGM 2013, Royal College of Physicians, London, Entitled *Gram negative, gram positive, fungal and beyond – the increasing complexities of “everyday” infections* Thursday 14 March, 2013
4. ESPID, 30th Annual Meeting of the European Society for Paediatric Infectious Diseases, Thessaloniki, Greece from May 8-12, 2012
5. 14th International Biotechnology Symposium and Exhibition, Palacongressi, Rimini, Italy, 14-18 September 2010
6. 3rdJSP International Conference- 2nd Jordanian-Hellenic Pathology Congress, *in collaboration with* European Molecular Pathology Group, European Society of Pathology, Amman, Jordan, November 5-8, 2008
7. Second Jordanian International Pharmaceutical Conference. Al-Zaytoonah Private University. Amman. 15-17 October 2008
8. 18th Course in Medical Genetics, Bertinoro di Romagna, Italy, May 15th -21st, 2005

9. New diagnostic methods for infectious diseases conference, Faculty of Medicine, University of Jordan, Amman 2/ 2000

IT SKILLS

- MUCDL certificate by examination, Mutah 5-2012
- E-learning and examination method by Moodle (certified)
- Advanced course in SPSS, Mu'tah University.
- Microsoft word, Excel, Power point
- Internet and communications methods

LANGUAGES

- Arabic (Mother tongue)
- English (Excellent reading, writing and speaking)
- Greek (Excellent reading, writing and speaking)

PUBLICATIONS

RESEARCH ARTICLES IN PEER-REVIEWED JOURNALS

In preparation (* corresponding author)

Published (* corresponding author)

REFERENCES:

1. Professor Neil Woodford BSc PhD FRCPath, Head, Antimicrobial Resistance and Healthcare Associated Infections Reference Unit, Public Health England, 61 Colindale Avenue, London NW9 5EQ, UK. E mail: neil.woodford@phe.gov.uk
Tel +44 (0)20 8327 7255
2. Dr. Antonio Fasanella, Responsible of Anthrax Reference Center of Italy and Department of Biotechnology and Vaccines, Istituto Zooprofilattico Sperimentale of Puglia and Basilicata Via Manfredonia 20, 71100 Foggia (Italy)
tel.: +390881786330, fax: +390881786362 E.mail : a.fasanella@izsfg.it
3. Professor Adel Abu-Hija, Mu'tah University, Faculty of Medicine, P. O. Box 7 Mu'tah 61710, Al-Karak, Jordan, Tel (962)-3-238-6287 Ext. 6180; Fax: 962-3-239-7180. E-mail: abuheija2008@hotmail.com
4. Professor Asem Ata Shehabi, Chairman of Pathology, Microbiology & Forensic Medicine Department, Medical School, The University of Jordan. Email: ashehabi@ju.edu.jo. Amman 11942 Jordan Tel: + 962 6 5355000 Fax: + 962 6 5355533
5. Professor Assistant L. Tzouvelakis (supervisor of my PhD thesis) Microbiology Department Medical School, National University of Athens, 75 M. Asias Street, Goudi - 115 27 Athens, Greece, E-mail: lstzouvelekis@gmail.com Tel +302107462011, Fax +302107462124