

CURRICULUM VITAE

30th March 2021

Suzan Matar
(PhD in Medical Microbiology and Immunology)
Associate Professor.
The University of Jordan
School of Science
Department of Clinical Laboratory Sciences

To Whom It May Concern:

I am Suzan Matar, associate professor of medical microbiology and immunology working for The University of Jordan since 2005 until now. I am experienced, dedicated and enthusiastic individual. In order to maintain the outstanding academic and research skills, I am continuously aiming to obtain ample research fund, conduct active and high quality research outputs, effective supervision of research students. I am motivated individual when working in a stable and dynamic workplace.

My research has provided me with the opportunity to draw connections between the University of Jordan and universities abroad, such as University of Nottingham/UK, Nottingham Trent University/UK, University of Al-Azhar/ Gaza, Near East University Faculty of Medicine, Turkey. I am very responsible to uphold standards and to encourage and challenge MSc students to work up to their potential in hope to create critical thinkers who will advance in science and research.

My research interests range from microbial phenotypic and genotypic characterization in biofilm related infections, to exploring non-antibiotic therapies such as immunotherapy and phage therapy. Excessive research is ongoing to isolate and characterize bacteriophages from soil and sewage for treating MDR bacterial infections in Biofilm and Extended Spectrum β -Lactamases (ESBL) Gram negative related infections.

In the era of antibiotic resistance, my research team is very active in applying antimicrobial susceptibility tests to screen for the antimicrobial activity of synthetic substances and plant extracts. We believe that they could play a vital role as potential and novel antimicrobial agents solely or in combination with antibiotics.

In the field of immunology, the serum bactericidal activity against different MDR microbes in conjunction with antibiotics has been investigated. Vaccination and immunomodulation are two areas have been recently introduced into our research interests. Many molecular techniques have been applied such as PCR, PFGE, DNA and plasmid extraction, designing primers for cloning and DNA sequencing, SDS-PAGE, protein extraction and western blotting in our diverse projects.

In the field of medical technologies and advanced materials, detection of innate immunity responses in macrophages and fibroblasts to bacterial biofilm conditioned biomaterials using the measurement of free radical generation by chemiluminescence has been proposed by Prof. John Hunt to be investigated based on very promising results which were achieved from a joint project (2019/2020) titled “effects of cold atmospheric plasma (cap) on neutrophils and monocytes/macrophages responsiveness.”

EDUCATION

June 1994	<u>University of Jordan</u> Bsc. From biological department as medical technician	Amman
Feb 1997	<u>University of Jordan</u> Graduated with MSc. In biology/animal physiology	Amman
December 2004	<u>University of Nottingham</u> Graduate with PhD in medical and diagnostic microbiology and immunology	Nottingham
June 2010	<u>Ministry of Health Jordan</u> Certified as professional biomedical scientist in medical microbiology and immunology	Amman

COURSES AND WORKSHOPS

Jan-Dec 1994	<u>Private Laboratory</u> Trained in private laboratory in medical analysis and documentation of patients' data in the computer system	Amman
Jan 1998-Nov 1998	<u>Ministry of Water and Irrigation Laboratory</u> Trained in microbiology laboratory in water and sewage water analysis.	Amman
Jan 1999 – Dec 2000	<u>The University of Nottingham</u> 1. Developing the skills of negotiation and team work. 2. Finishing my thesis and preparing for viva. 3. An introduction to creating and publishing web pages. 4. An introduction to image and photo editing. 5. Skills of spoken and written communication. Introduction to SPSS.	Nottingham
Autumn 2000/2001	<u>The University of Nottingham</u> Course in using Microsoft packages for documenting professional scientific theses. Packages including Word, Excel, PowerPoint, and SPSS.	Nottingham
Jan 15 th –Feb 6 th 2012	<u>The University of Jordan</u> Workshop for Development Faculty member 50 credit hours	Amman
Nov 6 th 2013	<u>Grand Hyatt Hotel</u> Memmert CO₂ Incubators Applications in Stem Cells and IVF	Amman
28Dec 2013- 22 Feb 2014	<u>The University of Jordan/ Centre of Consultation</u> SPSS: Software package for Statistical Analysis	Amman
12 -16 Jan 2014	<u>Royal Scientific Society</u> INTERPOL Middle East Regional Biosecurity Workshop	Amman

29 Jan-6 Feb 2014	<u>The University of Jordan / Centre of Accreditation and Quality Assurance</u> SPSS Advanced: Regression, Factorial Analysis, Multivariate Analysis of Variance, Discriminant Analysis <u>The University of Jordan</u>	Amman
28 th -30 Dec 2014	E-learning workshop	Amman
16 th -29 th Feb 2014	<u>The University of Jordan / Centre of Accreditation and Quality Assurance</u> Quality Control Managements <u>The Hashemite University</u>	Amman
19 th -23 rd Oct 2014	UNESCO Bioethics Teachers' Training Course	Amman
3 rd Nov 2015	<u>The University of Jordan</u> Author Academy: How to write for and get published in journals	Amman

The University of Jordan / Centre of Accreditation and Quality Assurance Amman

22,23 Feb 2017	Open educational resources	
24 th April 2017	Recent Trends in University Teaching - Project and flipping learning	
9 th Mar 2017	Evaluation of students' learning without tests	
17 th Sep 2017	Creating and Editing video resources for blended learning	
7 th May 2018	<u>Ethics Of Teaching From A Practical Perspective</u>	
31 st March-1 st April 2017	<u>Medical technology and laboratory society</u> Polymerase chain reaction, Art & Science	Amman
4 th -5 th April 2018	<u>Jordanian trainers society</u> Quality control practices in medical labs	Amman
4 th -5 th May 2018	<u>Medical technology and laboratory society</u> Cancer Biomarkers: Molecular approach, detection and monitoring	Amman
25 th – 28 th 2018	<u>MonoJO</u> Hybridoma technology workshop	Amman
31 May 2019	<u>Biorisk Management</u> By frontline healthcare workers safety foundation	Online Frontline
16 th Feb 2021	<u>NIDA Clinical Trial Network</u> For Good Clinical Practice (12 modules) This training has been funded in whole or in part with Federal funds from the National Institute on Drug Abuse, National Institutes of Health, Department of Health and Human Services, under Contract No. HHSN27201201000024C.	Online
1 st March 2021 - Ongoing	<u>Diagnostic Medical Mycology Course</u> By ISHAM ‘ international Society For Human and Animal Mycology (12 modules) Accredited by the European accreditation Council for Continuing Medical Education	Online

EXPERIENCE

Sep 2020 –Ongoing	<u>Civil Service Bureau</u> Committee member for Developing competitive examinations and evaluations for medical and health personnel	Amman
3 rd Sep 2020- Feb 2021	<u>Abdul Hameed Showman Education/Arab Bank</u> Committee member for Showman Award for Creative Productions for Children and Young People ‘IBDAA’	Amman
Sep 2019-Sep 2020	<u>Nottingham Trent University</u> Visiting researcher (sabbatical leave) working with Prof. John Hunt on a project titled ‘ Effects of Cold Atmospheric Plasma (CAP) on Neutrophils and Monocytes/Macrophages Responsiveness ’.	Nottingham
Sep 2017- Sep 2018	<u>The University of Jordan</u> Head of Clinical Laboratory Sciences Department Faculty of Science	Amman
Jan-May 2018	<u>Accreditation and Quality Assurance Commission for Higher Education</u> Competency based test for Jordanian university students in clinical laboratory sciences	Amman
10 th May 2017	<u>Jordan Science Fair</u> Jordan future scientist fair 2017 referee	Amman
Sep 2013- Sep 2014	<u>The University of Jordan</u> Head of Biology and Medical Analysis Department Faculty of Science	Amman
Nov 2011- On going	<u>The Ministry of Health</u> Licensure of clinical laboratory science personnel dealing with certification and licensing issues at the Ministry of Health.	Amman
Jun 2012-Aug 2012	<u>The University of Nottingham</u> Collaborating with Dr. Alan Cockayne (associate professor) working at school of molecular and medical sciences on two projects: <ol style="list-style-type: none">1. Generation of mutants in <i>Clostridium difficile</i> in genes involved in metal ion uptake.2. Studies on proteins involved in haemin binding to the surface of staphylococci	Nottingham
Jun 2011-Aug 2011	<u>The University of Nottingham</u> Collaborating work with molecular microbiology and immunology group (Dr. Neil Oldfield) in studying the carrier status of <i>Neisseria meningitides</i> among students at The University of Nottingham	Nottingham

Feb2005/until now

The University of Jordan

Amman

- Working as full time at University **teaching**

General Biology 101

General Biology 102

General Biology Laboratory 111

Applied Microbiology

Applied microbiology Laboratory

Medical Microbiology for CLS students

Medical Microbiology Laboratory for CLS students

Microbiology and Immunology for Nursing

Immunology for biology and CLS students

Immunology Laboratory for biology and CLS students

Serology and Immunology for CLS students

Serology and Immunology laboratory classes for CLS students

Diagnostic Microbiology for CLS students

Diagnostic Microbiology Laboratory

Diagnostic Mycology for CLS students

Biotechnology

Introduction to Microbiology for Medicine students

Microbiology and Immunology for dentistry students

Microbiology (2) for dentistry students

Pathology for CLS students

Medical Terminology for CLS students

- **Mentor** in clinical laboratory sciences training course for CLS students

- **A curriculum committee member** for developing the studying plan of the undergraduate and postgraduate courses in biology, biotechnology and clinical laboratory sciences.

Feb- 2007

Committee Member

Authenticating the Medical Analysis Bachelor Program at Jordanian Universities

Ministry of Higher Education – Amman

Jul- Sep2005

Al-Sukhtian Households and Toiletries (FFF project)

Worked as consultant for the development and improvement of microbiology department with special reference in introducing quality control procedures and new methodology of diagnosis and staff awareness. The national program "**Faculty For Factory**" is considered one of the new channels aiming to create a genuine partnership between industrial sectors and faculty members.

Sahab / The Industrial City / Jordan

Jan-Dec 2004	<u>Queen's Medical Centre</u> Trained and worked in diagnostic laboratories	Nottingham
Sept 1998-Mar 1999	<u>University of Jordan</u> Working as full-time university teaching assistant	Amman
1994-1997	<u>University of Jordan</u> Working as teaching and researching assistant in animal physiology, general biology, invertebrate and parasite, laboratory animals' lab.	Amman
1993-1994	<u>City Hospital</u> Trained and worked in clinical laboratories.	Amman

SCIENTIFIC PUBLICATIONS

➤ Journal Paper

Sallam, Malik; Dababseh, Deema; Eid, Huda; Hasan, Hanan; Taim, Duaa; Al-Mahzoum, Kholoud; Al-Haidar, Ayat; Yaseen, Alaa; Ababneh, Nidaa A.; Assaf, Areej; Bakri, Faris G.; **Matar, Suzan**; Mahafzah, Azmi. **2021. "Low COVID-19 Vaccine Acceptance Is Correlated with Conspiracy Beliefs among University Students in Jordan"** Int. J. Environ. Res. Public Health 18, no. 5: 2407. <https://doi.org/10.3390/ijerph18052407>

➤ Journal Paper

Muhamad Al-Limoun, Haitham N Qaralleh, Khaled M Khleifat, Mohammed Al-Anber, Amjad Al-Tarawneh, Khalid Al-sharafa, Mohammed H Kailani, Mohammed A Zaitoun, **Suzan A Matar**, Toqa Al-soub. **Culture Media Composition and Reduction Potential Optimization of Mycelia-free Filtrate for the Biosynthesis of Silver Nanoparticles Using the Fungus Tritirachium oryzae W5H.** *Current Nanoscience* (2020) 16 (5): 757-269

➤ Journal Paper

Malath A Al - Qtaitat, Mustafa M El - Abadelah, Salim S Sabri, **Suzan A Matar**, Hana M Hammad, Mohammad S Mubarak. **Synthesis, Characterization, and Bioactivity of Novel Bicinnolines Having 1-Piperazinyl Moieties.** *Journal of Heterocyclic Chemistry* (2019) 56(1): 158-164.

➤ Journal Paper

Khaled M Khleifat, Suzan A Matar, Mohammad Jaafreh, Haitham Qaralleh, Muhamad O Al-limoun, Khalid Y Alsharafa. **Essential Oil of Centaurea damascena Aerial Parts, Antibacterial and Synergistic Effect.** *Journal of Essential Oil Bearing Plants* (2019) 22(2): 356-367.

➤ Journal Paper

Ahmad H Abdullah, Jalal A Zahra, Mustafa M El-Abadelah, Salim S Sabri, Monther A Khanfar, **Suzan A Matar**, Wolfgang Voelter. **Synthesis and antibacterial activity of N1-(carbazol-3-yl)amidrazones incorporating piperazines and related congeners.** *Zeitschrift für Naturforschung B* (2016) 71 (8): 857-867.

➤ **Journal Paper**

S.A. Matar, W.H. Talib, M.S. Mustafa, M.S. Mubarak, M.A. AlDamen. **Synthesis, Characterization, and Antimicrobial Activity of Schiff Bases Derived from Benzaldehydes and 3,3'-Diaminodipropylamine**, *Arabian Journal of Chemistry* 2015, 8(6) , 850–857

➤ **Journal Paper**

Hana M. Hammad, **Suzan A. Matar**, Simona-Carmen Litescu, Sawsan Abuhamdah Hala I. Al Jaber, and Fatma U. Afifi. **Biological Activities of the Hydro-alcoholic and Aqueous Extracts of *Achillea fragrantissima* (Forssk.) Grown in Jordan**. *Journal of Natural Science*. 2014., Vol 6: No. (1): 23-30.

➤ **Journal Paper**

Suzan Matar, Nahed Al-laham, Ibrahim Masalhaand Luay F Abu-Qatouseh. **Characterization of capsule expression of both MSSA/MRSA isolates from various body sites from colonization and infections cases**. *The International Arabic Journal of Antimicrobial Agents*. 2014., Vol 4, Issue 2:4. Pages 1-9.

➤ **Journal Paper**

Suzan A. Matar, Eman M. Mahmoud and Hamdallah A. Hodali. **The antibacterial biofilm activity of metal-doped mullite ceramics against pathogenic bacteria**. *African Journal of Microbiology Research* 2013; 7(23), 2939-2947.

➤ **Journal Paper**

Hana M. Hammad , Camelia Albu , **Suzan A. Matar** , Simona-Carmen Litescu , Hala I. Al Jaber , Amal S. Abualraghib and Fatma U. Afifi. **Biological activities of the hydro-alcoholic and aqueous extracts of *Achillea biebersteinii* Afan. (Asteraceae) grown in Jordan**. *African Journal of Pharmacy and Pharmacology* 2013, 7(25): 1686-1694.

➤ **Journal Paper**

Eman Awad, Mustafa EL-Abadelah, **Suzan Matar**, Malek Zihlif, Randa Naffa, Ehab Al-momani, and Mohammad Mubarak. **Synthesis and Biological Activity of Some 3-(4-(Substituted)-piperazin-1-yl) cinnolines**. *Molecules*. 2011 Dec 28;17(1):227-39.
Doi: 10.3390/molecules17010227.

➤ **Journal Paper**

Oldfield NJ, **Matar S**, Bidmos FA, Alamro M, Neal KR, *et al*. **Prevalence and Phase Variable Expression Status of Two Autotransporters, NalP and MspA, in Carriage and Disease Isolates of *Neisseria meningitidis***. *PLoS ONE* 2013; 8(7): e69746.
Doi:10.1371/journal.pone.0069746.

➤ **Journal Paper**

Rana Zeidan, Sawsan Oran, Khaled Khleifat , **Suzan Matar**. **Antimicrobial Activity of Leaf and Fruit Extracts of Jordanian *Rubus sanguineus* Friv. (Rosaceae)**. *African journal of Microbiology Research* 2013; 7(44): 5114-5118. Doi: 10.5897/AJMR2013.5770

➤ **Journal Paper**

Hana M. Hammad, Simona-Carmen Litescu, **Suzan A. Matar**, Hala I. Al Jaber, Fatma U. Afifi.

Biological Activities of the Hydro-alcoholic and Aqueous Extracts of *Achillea falcata* L. (Asteraceae) Grown in Jordan. *European journal of Medicinal Plants.* 2013.,Vol.: 4, Issue.: 3 (March)
ISSN: 2231-0894

➤ **Abstract and Poster**

Suzan Matar, Roger Bayston (2001). The Pathogenic Role of *Staphylococcus epidermidis* small colony variants in biomaterial related infection. **101 ASM Meeting Florida, USA**

➤ **Abstract and Poster**

Suzan Matar, Shtaywy Abdalla (1997). Effects of Selected Chemical Ingredients Extracted from *Inula (Dittrichia) viscosa* on Smooth Muscle and Perfused Heart, and on Inflammation in the Rat. **8th Arab Conference of Biological Sciences & the 4th Jordanian Conference of Biological Sciences.** University of Jordan. Amman.

➤ **Abstract and Poster**

Neil J. Oldfield, **Suzan Matar**, Fadil A. Bidmos, Mohamed Alamro, David P.J. Turner, Christopher D. Bayliss & Dlawer A.A. Ala'Aldeen. Phase variation of *nalP* and *mshA* occurs during meningococcal carriage, **abstr P-059, p 200. Abstr. XVIIIth International Pathogenic Neisseria Conference (IPNC)**

➤ **Abstract and Poster**

Hammad HM, **Matar SA**, Al-Jaber HI, Afifi FU. Comparative Screening of Chemical Composition and Biological Activities of *Achillea* species in Jordan. The 15th International Congress of the International Society for Ethnopharmacology 2015, Petra, Jordan

CONFERENCE ATTENDANCE AND PARTICIPATIONS

5 th -8 th May 2015	<u>Abstract and Presentation</u>	Petra, Jordan
	Hammad HM, Matar SA , Al-Jaber HI, Afifi FU. Comparative Screening of Chemical Composition and Biological Activities of <i>Achillea</i> species in Jordan. The 15 th International Congress of the International Society for Ethnopharmacology 2015	
17 th Dec 2014	<u>Presentation</u>	Intercontinental Amman, Jordan
	Surgical Site Infection Symposium Biofilms and Surgical Site Infections	
28 th -30 th May 2014	<u>Abstract and Presentation</u>	Holiday Inn Hotel, Amman, Jordan
	The 5th International Jordanian Congress of Allergy & Immunology 'Phase Variations of Staphylococcal Biofilm Proteins Induced by Antibiotic Combination Therapy:	

A Possible Cause for Antibiotic Treatment Failure. ‘

2 nd -4 th April 2014	<p><u>Abstract and Presentation</u></p> <p>The third conference of the federation of Arabs societies of clinical microbiology and infectious diseases & the tenth conference of Arab alliance for prudent use of antimicrobial agents.</p> <p>“Diversity of Clinical Isolates of <i>Staphylococcus aureus</i> Capsule Expression in the Middle East.”</p>	Dead Sea Movenpick Hotel , Jordan
13 th -14 th Aug/ 2009	<p><u>Conference Attendance</u></p> <p>The 17th King Hussein Cancer Center Conference: "Infections in the Immuno compromised Cancer Patients"</p>	Le Meridien Hotel, Amman, Jordan
5 th -8 th Nov/2008	<p><u>Conference Attendance</u></p> <p>3rd JSP international conference, 2008 2nd Hellenic-Jordanian Pathology Congress Amman-Jordan</p>	Radisson SAS, Amman-Jordan
18-20 Oct/ 2007	<p><u>Abstract and Presentation</u></p> <p>The 5th Arab conference for antimicrobial Agents Characterisation of Staphylococcal Small Colony Variants in biomaterial-related infections with Special References to <i>Staphylococcus epidermidis</i></p>	Faculty of Medicine, University of Jordan
31 Aug-3 Sep/ 2006	<p><u>Conference Attendance</u></p> <p>2nd JSP international Conference 2006 Amman</p>	Le Royal Hotel, Amman-Jordan
April 25-27/2006	<p><u>Conference Attendance</u></p> <p>Bioinformatics Conference and Launch of Library of Life Project Bridging the Rift Foundation</p>	Dead Sea
Sep 2005	<p><u>Abstract</u></p> <p>The National Program Faculty-For-Factory, Third cycle Development and improvement of microbiology department with special reference in introducing quality control procedures and new methodology of diagnosis and staff awareness.</p>	University of Jordan

19-25 May 2001	<u>Poster</u> 101 ASM Meeting The Pathogenic Role of <i>Staphylococcus epidermidis</i> small colony variants in biomaterial related infection.	Florida, USA
26 Jan 2001	<u>Conference Attendance</u> Topics in Infection	Queen Elizabeth II Conference Centre/ London
30 th Nov 2000	<u>Abstract and Presentation</u> Postgraduate Conference Selection and Characterisation of Staphylococcal Small Colony Variants in biomaterial-related infections with Special References to <i>Staphylococcus epidermidis</i>.	School of Clinical Laboratory Sciences, University of Nottingham
8-11Aug/ 1997	<u>Abstract</u> Effects of Selected Chemical Ingredients Extracted from <i>Inula (Dittrichia) viscosa</i> on Smooth Muscle and Perfused Heart, and on Inflammation in the Rat.	8 th Arab Conference of Biological Sciences & the 4 th Jordanian Conference of Biological Sciences. University of Jordan. Amman

RESEARCH INTERESTS:

- 1) Interested in Biofilm related infections (chronicity and treatment failure).
 - Genotypic and phenotypic characterization of biomaterial related infections caused by Staphylococcal strains
 - Specific selection of virulence genes related to Biofilm formation and antibiotic resistance in *Escherichia coli* isolates from catheter related UTI.
 - Biological activity of synthetic chemical substance and plant extracts: Cytotoxicity, Mutagenicity (AMES test), antimicrobial activity.
 - Inhibiting growth of Methicillin resistant *Staphylococcus aureus* (MRSA) by egg yolk antibody production for an attempt in exploring immunotherapy possibility to control MRSA sepsis in neonates transmitted from mother during birth delivery.

- 2) Mesenchymal stem cell therapy for diabetic patients.
(In collaboration with Cell therapy Centre at The University of Jordan)
 - Modulation of Dendritic Cells from Type 1 Diabetic Patients by Autologous and Allogeneic Bone Marrow Derived Mesenchymal Stem Cells

- 3) Developing breakthrough therapies to repair, replace, augment and in the future regenerate diseased, infected and damaged tissues in humans using material interventions.
(In collaboration with Professor John Hunt at Nottingham Trent University)
 - Effects of Cold Atmospheric Plasma (CAP) on Neutrophils and Monocytes/Macrophages Responsiveness”.
 - Detection of Innate Immunity Responses in Macrophages and Fibroblasts responses to bacterial biofilm conditioned biomaterials Using the Measurement of Free Radical

4) COVID -19 Related Project

(In collaboration with University Hospital and Department of Medicine , Amman, Jordan)

- Clinical and viral genetic correlation study on SARS-CoV-2 in Jordan: Phylogenetic study using the spike gene region.
- Low COVID-19 Vaccine Acceptance is Correlated with Conspiracy Beliefs among University Students in Jordan: A Never-ending Story of COVID-19 and Conspiracy (Article submitted)

SUPERVISION:

1. MSc project titled: **Understanding Bacterial Pathogenicity: Would Iron Overload in Hospitalized Patients Increase the Risk of Infection or Aggravate Ongoing Infection?**
Collaboration with King Hussein Cancer Center, Jordan-Amman. (*Jordan 2013/2014*”).
2. MSc project “Antimicrobial Activity of *Rubus sanguineus* Friv. (Rosaceae) leaves and fruit”.
The University of Jordan. Department of biology. Jordan 2012/2013”.
3. MSc project “In vitro effect of subinhibitory concentration of selected antibiotics on *Methicillin-resistant Staphylococcus aureus* for capsule and biofilm formation.
The Hashemite University. Department of biology and biotechnology. Jordan 2016-2017.
4. MSc project “Immunomodulatory Function of Dendritic Cells Induced by Human Mesenchymal Stem Cells in Type 1 Diabetic Patients.
The University of Jordan with collaboration with Cell Therapy Center. Jordan 2017-2018.
5. MSc project with collaboration with Near East University Faculty of Medicine, Turkey. Effect of Vancomycin sub-MICs on biofilm production of Methicillin-resistant *Staphylococcus aureus* (2018- on going)

GRANTS:

- **Suzan Matar.**

Phase Variations of Staphylococcal Biofilm Proteins Induced by Antibiotic Combination Therapy: A Possible Cause for Antibiotic Treatment Failure. Grant awarded by Deanship of Academic Research (December 2009). The University Of Jordan.

- **Suzan Matar.**

Understanding Bacterial Pathogenicity: Would Iron Overload in Hospitalized Patients Increase the Risk of Infection or Aggravate Ongoing Infection? Grant awarded by Deanship of Academic Research (December 2013). The University Of Jordan.

- **Suzan Matar** .

Detection of Polyomavirus BK and JC in Urine Specimens by Real Time PCR. Grant awarded by Deanship of Academic Research (December 2017). The University Of Jordan.

- **Suzan Matar** .

Specific selection of virulence genes related to Biofilm formation and antibiotic resistance in *Escherichia coli* isolates from catheter related UTI. Grant awarded by Deanship of Academic Research (January 2020). The University Of Jordan.

LANGUAGES

English, Arabic and Bosnian - Proficiency: Excellent, both written and verbal in all
French - Proficiency: Good, both written and verbal.

REFEREES

The University of Nottingham

Prof. Dlawer Ala'Aldeen PhD, MRCPATH

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Immunology Group
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Secretary: 0115 970 9162
Website: [HTUwww.nottingham.ac.uk/mbigUTH](http://www.nottingham.ac.uk/mbigUTH)

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The University of Jordan

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Vice-President for Administrative and Financial Affairs
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