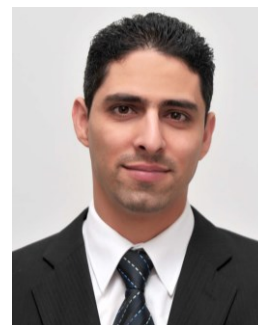


Samer Swedan, Ph.D

Associate Professor of Medical Microbiology
Department of Medical Laboratory Sciences
Jordan University of Science and Technology (JUST)
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Jordan

[Google Scholar Link](#); [Research Gate Link](#)



SHORT BIO

Being a faculty member at JUST, I always strive to do my best to fulfill my duties and responsibilities which are divided into teaching at 80% and research at 20%. We at JUST face enormous challenges in undergoing research. We are in a developing country with very limited resources and no public funding for research and for public universities. Yet, JUST supports researchers with modest research budgets to enable us to carry out research. To date, I have successfully supervised or co-supervised the research projects of more than 25 master's students. The budgets for these projects totaled USD 223,232\$. Many of my graduates and master's students are currently employed at respectable institutions as laboratory technicians, instructors, researchers, or in other leading positions, or are currently pursuing their PhD degree. I enjoy teaching which is given the biggest role here at JUST. I have taught more than 4000 students since 2010 from different faculties such as Medicine, Dentistry, Veterinary Medicine, and mostly Applied Medical Sciences. Most instructed courses were in Microbiology, Virology, Bacteriology, Parasitology, Mycology, Serology, and Scientific Research. The courses were at the bachelor and master's levels. I love to engage in class discussions and administer courses in a dynamic way involving problem solving activities and critical thinking. Based on feedback from my students and official student evaluations, I feel that I have made an impact on my students and inspired them to always give their best and aim high.

RESEARCH INTERESTS

My MSc and PhD training provided me with a broad range of microbiology skills in the fields of Bacteriology and Virology. Hence, my laboratory deals with two main lines of research; **BACTERIA and VIRUSES of clinical relevance**. Research areas include: Molecular Pathogenesis of Viral and Bacterial Pathogens; Epidemiology of Viral and Bacterial Pathogens; Antimicrobial Resistance; Antimicrobial Peptides.

Other interests: **Research Ethics and the Responsible Conduct of Research**

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PERSONAL INFO

Date of Birth April 13, 1979
Citizenship Jordan
Status Married with two children

EDUCATION & QUALIFICATIONS

- Aug 2019 Successful completion of **"Biorisk Management"** online course administered by Frontline Healthcare Workers Safety Foundation, Fort Worth, TX, USA (5/8/2019)
- 2017-2018 One-year (Online) **Fellowship in "Responsible Conduct of Research"**, University of California San Diego, USA. Administered in cooperation with Jordan University of Science and Technology (29/07/2017 – 11/10/2018)
- July 2010 **Doctor of Philosophy** in Basic Medical Sciences
University of South Alabama, Mobile, AL, USA
Dissertation Title: "Mechanism of suppression of host interferon response by the nonstructural proteins of human respiratory syncytial virus"
GPA 4.0
- Jan 2005 **Master of Science** in Medical Laboratory Sciences / Microbiology and Immunology
Jordan University of Science & Technology, Jordan
Thesis Title: "Extended Spectrum β -Lactamases among Gram negative bacterial isolates from clinical specimens in three major hospitals in northern Jordan"
GPA 90.4% (Excellent); Ranked 1st on graduating class
- June 2002 **Bachelor of Science** in Medical Laboratory Sciences
Jordan University of Science & Technology, Jordan
GPA 88.3% (Excellent); Ranked 1st on class of 1997

RESEARCH EXPERIENCE

- 2017-2018 One-year (Online) Fellowship in "Responsible Conduct of Research", University of California San Diego, USA. Administered in cooperation with Jordan University of Science and Technology (29/07/2017 – 11/10/2018)
- 2010-Pres. Researcher at the Department of Medical Laboratory sciences. Jordan University of Science and Technology. Jordan (Sep 2010-Present)
- 2006-2010 Graduate Student; PhD program in Basic Medical Sciences

- Department of Biochemistry and Molecular Biology, University of South Alabama, Mobile, AL (August 2006 – July 2010)
- 2004-2005 Graduate Student; MSc program in Medical Laboratory Sciences/ Microbiology and Immunology
- Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Jordan

TEACHING AND ADMINISTRATIVE EXPERIENCE

- 2018-Pres. **Associate Professor of Microbiology** (Virology, Bacteriology, Parasitology, Mycology, and Serology), Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Jordan (5/2/2018 – Present)
- 2014-2018 **Chairman of Medical Laboratory Sciences Department**, Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Jordan (1/9/2014 – 4/9/2018)
- 2013-2014 **Dean's Assistant**, Faculty of Applied Medical Sciences. Jordan University of Science and Technology. Jordan (1/9/2013 - 31/8/2014)
- 2010-2018 **Assistant Professor of Microbiology** (Virology, Bacteriology, Parasitology, Mycology, and Serology), Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences, Jordan University of Science and Technology, Jordan (13/9/2010 – 4/2/2018)
- 2005-2006 **Laboratory Instructor** of Basic Microbiology, Advanced Microbiology, Diagnostic Microbiology, and Medical Parasitology, Jordan University of Science & Technology, Jordan (Feb, 2005 – June, 2006)

OTHER ACTIVITIES AND DUTIES

- Jan 2023 **Head of the Higher Education Accreditation Committee** for accreditation of the Medical Analyses BSc and Medical Imaging BSc programs at the Al-Hussein Bin Talal University (ABU), Jordan (9/1/2023-18/1/2023)
- 2022 Collaborated with **University of Connecticut, USA** and successfully **incorporated up-to-date Biorisk Management topics** in the curriculum of the **Medical Laboratory Sciences BSc program** (Biorisk Management Program, University of Connecticut USA) (12/9/2022 – 18/10/2022)
- 2022 Served as a member in the ASIC accreditation committee at the Faculty of Applied Medical Sciences. Was appointed as **Committee head** at the department to assure compliance of the

- department of Medical Laboratory Sciences with accreditation requirements. Helped to acquire **ASIC international accreditation** for the faculty for Years 2022-2026
- 2018 As the chairman of the Medical Laboratory Sciences department I served as a member in the ASIC accreditation committee at the Faculty of Applied Medical Sciences. Helped to acquire **ASIC international accreditation** for the faculty for Years 2018-2022
- 2017 As the chairman of the Medical Laboratory Sciences department, and to bridge the gap between higher education institutions with the private sector, I successfully negotiated and formulated a memorandum of understanding (MOU) with the Medlabs Consultancy Group in Jordan, to enable JUST students to undertake their field training in their laboratories throughout the country. (MOU signed on 17/4/2017)
- 27/3/2014 Member of the Higher Education Accreditation Committee for accreditation of the Medical Laboratories Sciences program at the Hashemite University, Jordan
- 20/3/2014 Supervisor and Head of committee for JUST Student Union elections at the Department of Medical Laboratory Sciences. Jordan University of Science and Technology, Jordan

JUST TAUGHT COURSES

Course title	Course number	Course credits
Micro Techniques	LM220	2
Medical Parasitology	LM320	3
Medical Parasitology (Lab)	LM328	1
Viruses and Medical Fungi	LM437	2
Viruses and Medical Fungi (Lab)	LM459	1
General Microbiology	LM221	2
General Microbiology (Lab)	LM223	1
Independent Study	LM707	3
Advanced Microbiology	LM731	3
Advanced Clinical Microbiology and Immunology I - Bacteriology	LM733	3
Advanced Clinical Microbiology and Immunology III – Virology and Parasitology	LM735	3

JUST SUPERVISED COURSES

Course title	Course number	Course credits
Field Training	LM460	17

Course title	Course number	Course credits
Clinical Microbiology Hospital Laboratory Practice	LM476	4
Immunology and Serology Hospital Laboratory Practice	LM484	3
Research Project	LM493	2
Advanced Clinical Laboratory Training	LM796	1
Advanced Diagnostic Microbiology Practical Training I	LM738	3
Advanced Diagnostic Microbiology Practical Training II	LM739	3
Research Seminar	LM795	1

ATTENDED WORKSHOPS & WEBINARS

- Jan 2023 “Creating a Culture: Guidelines and Advice through a Lab Manual” Webinar; 1 hour, 17 Jan, 2023. Responsible Conduct of Research (RCR) Webinar Series. Dena Plemmons, Director, Research Ethics & Education Program, University of California Riverside (UCR), CA, USA.
- Jan 2022 “Omicron and Quarantine Ethics” Webinar; 1 hour, 25 Jan, 2022. Mark Aulisio, Case Western Reserve University; Renuga Vivekanandan, Creighton University. The Office of Research Excellence and Bioethics Interest Group; Ethics and COVID-19 Webinar Series. Milken Institute School of Public Health. The George Washington University. USA
- Jan 2022 “How to design your online course” self-paced workshop; 8 Jan, 2022, Center of E-Learning and Open Educational Resources. Jordan University of Science and Technology. Jordan
- Sep 2021 “Blended learning” workshop; 2 hours; 28 Sep, 2021, Center of E-Learning and Open Educational Resources. Jordan University of Science and Technology. Jordan
- Feb 2021 “Peer review and editorial ethics” Responsible Conduct of Research (RCR) virtual workshop; 4 hours, 2 Feb, 2021. Dena K. Plemmons, University of California, Riverside, USA; Behnam Taebi, TU Delft, Delft, The Netherlands; Fiona Sim Royal Society for Public Health and Visiting Professor Bedfordshire University, UK.
- Jan 2021 “Raising Students’ Engagement in Remote Learning Environment”, “Making Learning Visible – Class Notebook”, and “Adaptive Learning”, virtual workshop; 6 Hours; 7 Jan & 14 Jan, 2021. Queen Rania Teacher Academy (QRTA) - Microsoft Global Training Partner program, USA.

- Jan 2021 "Ethics of Research in Humanitarian Settings" Responsible Conduct of Research (RCR) virtual workshop; 2 hours, 5 Jan, 2021. Prof. Kaveh Khoshnood. Yale School of Public Health, Yale University, Connecticut, USA.
- Dec 2020 "Qualitative Research" Responsible Conduct of Research (RCR) virtual workshop; 4 hours, 22 Dec, 2020. Prof. Bonnie Kaiser; University of California at San Diego, CA, USA
- Dec 2020 "Bioinformatics" Responsible Conduct of Research (RCR) virtual workshop; 4 hours, 15 Dec, 2020. Prof. Suhaib Muflih; Jordan University of Science and Technology, and Prof. Reema Karasneh; Yarmouk University, Jordan
- Dec 2020 "Research Ethics Pedagogy" and "Critical Thinking" Responsible Conduct of Research (RCR) virtual workshop; 4 hours, 8 Dec, 2020. Prof. Kenneth Goodman; University of Miami, FL, USA, and Prof. Michael Kalichman; University of California at San Diego, CA, USA
- Nov 2020 "Step-by-step Guide on How to Prepare a Successful Paper - Jordan" Webinar; 1.5 hours. 18 Nov 2020. Springer Nature. MENA Program
- Aug 2020 "Exams and Evaluation" workshop; 12 hours. 18-19 Aug, 2020. Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- Jul-Nov 2020 "Responsible Conduct of Research (RCR) Webinar Series"; 20 hours. Twenty virtual interactive webinar sessions. University of California San Diego, USA. Administered in cooperation with Jordan University of Science and Technology (07/07/2020 – 10/11/2020)
- Sep 2019 "E-learning Basics" workshop; 12 hours; 17 and 19 Sep, 2019, Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- July 2018 "Modern Educational Methodologies and Educational Portal (MethodsX) toward Improving Teaching and Learning in Jordan" workshop; 3.5 hours; 17 July, 2018, Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- May 2018 "Teaching Research Ethics" online workshop. University of California San Diego, USA; 2 hours; 6 May, 2018
- Jan 2016 "Assessment & Innovative Teaching in Applied Medical Science" workshop, 19-20 Jan, 2016, Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- Dec 2014 "Scientific Manuscript Writing" workshop, 10-11 Dec, 2014, RESCAP-MED, Dead Sea, Jordan
- Sep 2013 "Statistical Package for Social Sciences" workshop; 12 hours. 19 and 22 Sep, 2013. Academic Development and Quality

- Assurance Center. Jordan University of Science and Technology. Jordan
- Sep 2013 “Modern University Instructional Methods” workshop; 12 hours. 17-18 Sep, 2013. Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- July 2012 “Testing and Evaluation” workshop; 12 hours. 18-19 July, 2012. Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- May 2011 “Managing Research Grants” workshop; 5 hours. 17 May, 2011. Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan
- Jan 2011 “Statistical Package for Social Sciences” workshop; 12 hours. 23-24 Jan, 2011. Academic Development and Quality Assurance Center. Jordan University of Science and Technology. Jordan

JOURNAL REVIEWER ACTIVITIES

- 2023-Pres. Reviewer for Jordan Medical Journal
- 2023-Pres. Reviewer for the Virology Journal
- 2023-Pres. Reviewer for Journal of Pure and Applied Microbiology
- 2022-Pres. Reviewer for Journal of Clinical Virology Plus, Elsevier
- 2022-Pres. Reviewer for Letters in Applied Microbiology, Wiley-Blackwell
- 2019-Pres. Reviewer for **PLOS ONE** Journal
- 2018-Pres. Reviewer for Microbial Pathogenesis Journal, Elsevier
- 2016-Pres. Reviewer for the Nutrition Research Journal, Elsevier.
- 2015-Pres. Reviewer for the Journal of Food Science, Wiley-Blackwell.
- 2012 Reviewer for Arab Gulf Journal of Scientific Research, Published by Arabian Gulf University
- 2012-Pres. Reviewer for the Jordan Journal of Biological Sciences (JJBS), Published by the Deanship of Scientific Research and Graduate Studies, The Hashemite University, Jordan

PUBLICATIONS

1. **Samer Swedan**, “Emad Addin” R. Alabdallah, Qutaiba O. Ababneh. Resistance to aminoglycoside and quinolone drugs among *Klebsiella pneumoniae* clinical isolates from northern Jordan. Submitted Feb 13, 2023. Accepted Dec 1, 2023. Published Online Dec 6, 2023. **URL:** <https://www.sciencedirect.com/science/article/pii/S2405844023105767>. Heliyon Journal (Journal Indexed in Scopus; **Q1**).

2. **Samer Swedan**, Doaa Al-saleh. Transfusion transmitted virus and dengue virus among healthy blood donors; a prevalence report from Jordan. *Biomolecules and Biomedicine*. Vol 23. Issue 3. pp 450-456. 6 Dec 2022. DOI: 10.17305/bjbms.2022.7832 (Journal Indexed in Scopus; **Q1**)
3. Hassan M. Kofahi, Omar F. Khabour, **Samer F. Swedan**, Refat M. Nimer. Sources of SARS-CoV-2 transmission in Jordan: Self-reported approach. *Informatics in Medicine Unlocked*. Vol 32, pp 101075 (1-6). 6 Sept 2022. DOI: 10.1016/j.imu.2022.101075 (Journal Indexed in Scopus; **Q2**)
4. Refat M. Nimer, Omar F. Khabour, **Samer F. Swedan**, Hassan M. Kofahi. Effect of natural products use prior to infection with COVID-19 on disease severity and hospitalization: A self-reported cross-sectional survey study. *F1000Research Journal*. Vol 11. pp 639(1-19). Accepted 11 July 2022. DOI: 10.12688/f1000research.121933.2 (Journal Indexed in Scopus; **Q1**)
5. Hassan M. Kofahi, **Samer F. Swedan**, Omar F Khabour and Refat M. Nimer. Predictors of COVID-19 severity and hospitalization: A survey-based study from Jordan. *Informatics in Medicine Unlocked*. Vol 31, No. 2022, pp 1-5. 18 June 2022. DOI: 10.1016/j.imu.2022.100994 (Journal Indexed in Scopus; **Q2**)
6. Mamdoh M. Meqdam, Malak I. Abusamha, Khadija F. Maho, Ayat M. Gogazeh, Mustafa Ababneh, Asem Alkhateeb, **Samer FM Swedan**, Muhamad Ali K Shakhathreh, and Ziad Bataineh, Prevalence of Enteric Viruses in Children Hospitalized with Acute Gastroenteritis in Northern Jordan. *Annals of Pediatrics & Child Health*. Vol 10. No. 1. pp 1-6. 15 March 2022. (Journal indexed in Google Scholar)
7. Refat Nimer, Omar Khabour, **Samer Swedan**, Hassan Kofahi, The impact of vitamin and mineral supplements usage prior to COVID-19 infection on disease severity and hospitalization. *Biomolecules and Biomedicine*. Vol 22, No. 5. pp. 826-832. 28 February 2022. DOI: 10.17305/bjbms.2021.7009. (Journal Indexed in Scopus; **Q1**)
8. **Samer Swedan**, Alia' Darabseh, Seroprevalence of herpes simplex virus types 1 and 2 and correlates of infection in Jordan. *International Journal of STD & AIDS*. Vol 33, No. 3. pp. 304-310. 3 January 2022. DOI: 10.1177/09564624211060183. (Journal Indexed in Scopus; **Q2**)
9. Wajdy Al-Awaida, Baker Al Hourani, **Samer Swedan**, Refat Nimer, Foad Al-zoughool, Hamzeh Al-Ameer, Sara Al Tamam, Raghad Alashqar, Omar Al bawareed, Yulia Gushchina, Mohamed Abousenna, Amani Ayyash, Ahmad Sharab, Sulaiman Alnaimat, Amer Imraish,

- Muhanad Akash, Najah Hadi. Correlates of SARS-CoV-2 variants on deaths, case incidence, and case fatality ratio among the continents for the period of December 1, 2020 to March 15, 2021. *Genes*. Vol 12, No. 7, pp. 1-16. 12 July 2021. DOI: 10.3390/genes12071061 (Journal Indexed in Scopus; **Q2**)
10. Refat Nimer, **Samer Swedan**, Hassan Kofahi, Omar Khabour, Increased adherence to infection control practices among medical laboratory technicians during the COVID-19 pandemic: a self-reported survey study. Vol 87, No. 1, pp. 1-10. *Annals of Global Health*. 25 June 2021. DOI:10.5334/aogh.3378 (Journal Indexed in Scopus; **Q1**)
 11. Nour Hamad, Karem Alzoubi, **Samer Swedan**, Omar Khabour, Khalid El-Salem. Association between Tumor Necrosis Factor Alpha and Lymphotoxin Alpha Gene Polymorphisms and Migraine Occurrence among Jordanians. *Neurological Sciences*. Vol 42, No. 9, pp. 3625-30 12 Jan 2021. DOI: 10.1007/s10072-020-04967-5 (Journal Indexed in Scopus; **Q2**)
 12. Muhamad Ali Shakhathreh, Omar Al-Rawi, **Samer Swedan**, Karem Alzoubi, Omar Khabour, Mohamed Al-Fandi. Biosynthesis of silver nanoparticles from *Citrobacter freundii* as antibiofilm agents with their cytotoxic effects on human cells. *Current Pharmaceutical Biotechnology*. Vol 22, No. 9, pp.1254-63 October 2020. DOI: 10.2174/1389201021666201020162158 (Journal Indexed in Scopus; **Q2**)
 13. **Samer Swedan**, Omar F. Khabour, Karem H Alzoubi, Alaa A A Aljabali. Graduate students reported practices regarding the issue of informed consent and maintaining of data confidentiality in a developing country. *Heliyon J*. September 2020, e04940. Vol 6, No 9. DOI: 10.1016/j.heliyon.2020.e04940 (Journal Indexed in Scopus; **Q1**)
 14. Ahmed Al Sharie, Tamam El-Elimat, Ruba S. Darweesh, **Samer Swedan**, Zaina Shubair, Reema Al-Qiam, Hadil Albarqi. Green synthesis of zinc oxide nanoflowers using *Hypericum triquetrifolium* extract: characterization, antibacterial activity and cytotoxicity against lung cancer A549 cells. *Applied Organometallic Chemistry*. May 2020. Vol 34, No. 8, pp 1-13. DOI: 10.1002/aoc.5667 (Journal Indexed in Scopus; **Q1**)
 15. Zain Dardas, **Samer Swedan**, Ahmad Al-Sheikh Qassem, and Belal Azab, The impact of exome sequencing on the diagnostic yield of muscular dystrophies in consanguineous families. *European Journal of Medical Genetics*. Vol 63, No 4, pp. 1-11 January 2020. DOI: 10.1016/j.ejmg.2020.103845 (Journal Indexed in Scopus; **Q3**)
 16. **Samer Swedan**, Zaina Shubair, and Ammar Almaaytah, Synergism of cationic antimicrobial peptide WLBU2 with antibacterial agents against

- biofilms of multi-drug resistant *Acinetobacter baumannii* and *Klebsiella pneumoniae*. *Infection and Drug Resistance Journal*. Vol 2019, No 12, pp. 2019-30, July 2019. DOI: 10.2147/IDR.S215084 (Journal Indexed in Scopus; **Q1**)
17. **Samer Swedan** and Heba Abu Alrub, Antimicrobial resistance, virulence factors, and pathotypes of *Escherichia coli* isolated from drinking water sources in Jordan. *Pathogens Journal*. Vol 8, No 86, pp. 1-19, June 2019. DOI: 10.3390/pathogens8020086 (Journal Indexed in Scopus; **Q1**)
18. Muhamad Ali K. Shakhathreh, **Samer F. Swedan**, Ma'en A. Al-Odat, Omar F. Khabour. Uropathogenic *Escherichia coli* (UPEC) in Jordan: Prevalence of urovirulence genes and antibiotic resistance, *Journal of King Saud University - Science*, Vol 31, No. 3, pp. 648-652. March 2018. DOI: 10.1016/j.jksus.2018.03.009 (Journal Indexed in Scopus; **Q1**)
19. **Samer F. Swedan**, Heba M. Obeidat, "Muhamad Ali" K. Shakhathreh. Molecular typing and detection of collagen binding genes among *Streptococcus mutans* isolated from diabetic and non-diabetic individuals from Northern Jordan. *Jordan Journal of Biological Sciences*. Vol 11, No 3, pp. 293-300, July 2018 (Journal Indexed in Scopus; **Q3**)
20. **Swedan, S.**, Increased incidence of BK virus viremia among patients undergoing chronic hemodialysis; a case-control study. *J Clinical Pathology*. Vol 71, No 4, pp. 360-363, Sep 2017. DOI: 10.1136/jclinpath-2017-204707 (Journal Indexed in Scopus; **Q1**)
21. **SF Swedan**, WA Hayajneh, GN Bshara, Genotyping and serotyping of macrolide and multidrug resistant *Streptococcus pneumoniae* isolated from carrier children, *Indian Journal of Medical Microbiology*, Vol 34, No 2, pp. 159-165, April 2016. DOI: 10.4103/0255-0857.176840 (Journal Indexed in Scopus; **Q2**)
22. Banihani, S., **Swedan S.**, and Alguraan Z., Pomegranate and type 2 diabetes. REVIEW ARTICLE. *Nutrition Research*. Vol 33, No 5: pp. 341-8. May 2013. DOI: 10.1016/j.nutres.2013.03.003 (Journal Indexed in Scopus; **Q2**)
23. Matalaka, I., **Swedan, S.**, Khabaz, M., and Barahmeh, M., JC virus in colorectal cancer: where do we stand?. *Future Virology*. Vol 8, No 6, pp. 607-15, May 2013. DOI: 10.2217/fvl.13.36 (Journal Indexed in Scopus; **Q3**)
24. **Swedan, S.**, Andrews, J., Majumdar, T., Musiyenko, A., and Barik, S., Multiple functional domains and complexes of the two nonstructural proteins of human respiratory syncytial virus contribute to interferon suppression and cellular location. *Journal of Virology*. 2011

Oct;85(19):10090-100. Epub 2011 Jul 27. DOI: 10.1128/JVI.00413-11 (Journal Indexed in Scopus; **Q1**)

25. **Swedan, S.**, Musiyenko, A., and Barik, S., Respiratory Syncytial Virus Nonstructural Proteins Decrease Levels of Multiple Members of the Cellular Interferon Pathways. *Journal of Virology*, 2009, Oct;83(19):9682-93. DOI: 10.1128/JVI.00715-09 (Journal Indexed in Scopus; **Q1**)
26. Batchoun, R., **Swedan, S.**, and Shurman, A., Extended Spectrum β -Lactamases among Gram-Negative Bacterial Isolates from Clinical Specimens in Three Major Hospitals in Northern Jordan. *International Journal of Microbiology*, Vol. 2009, 513874. DOI: 10.1155/2009/513874 (Journal Indexed in Scopus; **Q2**)

ARTICLES SUBMITTED TO JOURNALS AND UNDER REVIEW

1. **Samer Swedan**, Karem H. Alzoubi, Omar Khabour, and Alaa A. Aljabali. Student Satisfaction with Research Supervision in Graduate Programs in a Developing Country. Article submitted to *Higher Education Pedagogies* on **May 20th, 2022**. (Journal Indexed in Scopus; **Q2**)

Note: For status update on Publications, an up-to-date CV can be accessed from:

<http://www.just.edu.jo/eportfolio/Pages/Default.aspx?email=sfswedan4>

PUBLISHED ABSTRACTS

1. **Samer Fuad Swedan** and Sailen Barik, Non-Structural (NS) proteins of Respiratory Syncytial Virus (RSV) target multiple components of the interferon induction and response pathways of innate immunity, *The FASEB Journal*, 2010 24:489.9.
2. **Swedan SF** and Barik S., NS1 and NS2 of Respiratory Syncytial Virus Target Multiple Components of the Interferon Induction and Response Pathways of the Innate Immune System. (USA College of Medicine Research Forum, Nov 2009).
3. **Samer Fuad Swedan** and Sailen Barik, Effects of Nonstructural Proteins (NS) of Respiratory Syncytial Virus (RSV) on Host Interferon Response, *The FASEB Journal*, 2009, 23:524.6.
4. **Swedan, S.**, Barik, S., Effects of Nonstructural Proteins of Human Respiratory Syncytial Virus on Host Interferon Response. (USA College of Medicine Research Forum, Nov 2008).

ARTICLES IN PREPARATION FOR PUBLICATION

- Integron genes and drug resistance among Escherichia coli and Klebsiella pneumoniae urinary tract clinical isolates
- Biofilm production and aminoglycoside resistance among Pseudomonas aeruginosa isolated from burn-wound infections from Jordan
- Evaluation of biofilm production and antibiotic susceptibility of bacteria isolated from diabetic foot ulcer patients
- Prevalence and molecular analysis of Human Parvovirus B19 among patients with sickle cell disease and beta-thalassemia major

PRESENTATIONS AND SEMINARS

- 2016 Antimicrobial Agents and Resistance, Lecture presented to Jordan University of Science and Technology Health Center, Irbid, Jordan, 13/10/2016
- 2016 HBsAg Detection Methods, Lecture presented to Jordan University of Science and Technology Health Center, Irbid, Jordan, 6/4/2016
- 2011 Mechanism of Suppression of Host Interferon Response by the Nonstructural Proteins of Human Respiratory Syncytial Virus, College of Applied Medical Sciences Journal Club, JUST, Jordan
- 2010 Mechanism of Suppression of Host Interferon Response by the Nonstructural Proteins of Human Respiratory Syncytial Virus, BMB Research In Progress seminar series, USA, Mobile, AL
- 2009 Mechanism of Suppression of Host Interferon Response by the Nonstructural Proteins of Human Respiratory Syncytial Virus. BMB Research In Progress seminar series, USA, Mobile, AL
- 2008 Effects of Nonstructural Proteins (NS) of Human Respiratory Syncytial Virus on Host Interferon Response, COM Research Forum, Mobile, AL
- 2008 Effects of Nonstructural Proteins (NS) of Human Respiratory Syncytial Virus on Host Interferon Response, BMB Research In Progress seminar series, USA, Mobile, AL

CONFERENCES

- 2022 **Oral Presentation: Swedan S.** and Darabseh ,A., First population estimates and risk factors for herpes simplex virus type 1 and 2 infection in Jordan. International Conference on Applied Chemistry and Biotechnology. Organized by Al-Balqa Applied University. (10-12/5/2022). 20 min oral presentation

- 2021 Attended “The 6th International Conference on Ethics in Jordan and the MENA and IBRO-MENA on Neuroethics”. Organized by Jordan University of Science and Technology & University of California San Diego. Held virtually (05-06/08/2021).
- 2021 **Oral Presentation: Swedan, S.**, Nimer, R., Kofahi, H., Practices of medical laboratory workers during the COVID-19 pandemic. The 1st Jadara University International Conference on “COVID-19 Pandemic: Pharmaceutical & Biomedical Research and Perspectives”. Organized by Jadara University, Jordan. Held virtually (10-11/3/2021). 20 min oral presentation
- 2020 Attended “The 5th International Conference on Ethics in Jordan and the MENA”. Organized by Jordan University of Science and Technology & University of California San Diego. Held virtually (06-07/11/2020).
- 2019 **Oral Presentation: Swedan, S.**, Knowledge of Research Ethics and Adequacy of Research Training Among Master’s and PhD Students in Jordan. The 4th International Conference of Research Ethics in Jordan. Organized by Jordan University of Science and Technology & University of California San Diego. Held at Jordan University of Science and Technology, Jordan (05/11/2019). 15 min oral presentation.
- 2016 **Oral Presentation: SF Swedan**, WA Hayajneh, GN Bshara, Prevalence and characterization of Streptococcus pneumoniae isolated from carrier children from Northern Jordan. The 4th International Jordanian Conference of the Jordan Society for Medical Laboratory Sciences, Amman, Jordan (7/9/2016); 30 min presentation
- 2010 **Poster: Swedan, S.**, Barik, S., Non-Structural (NS) proteins of Respiratory Syncytial Virus (RSV) target multiple components of the interferon induction and response pathways of innate immunity, Experimental Biology 2010, Anaheim, CA; Poster
- 2009 **Oral Presentation: Swedan SF** and Barik S., NS1 and NS2 of Respiratory Syncytial Virus Target Multiple Components of the Interferon Induction and Response Pathways of the Innate Immune System, College of Medicine Research Forum, USA, Mobile, AL
- 2009 **Poster: Swedan, S.**, Barik, S., Effects of Nonstructural Proteins (NS) of Human Respiratory Syncytial Virus on Host Interferon Response, Experimental Biology 2009, New Orleans, LA

JUST RESEARCH

The **29 research projects**, included supervision of **26 students** from 2010 to 2022, and were funded a total of **USD 223,232\$**

- 2022-Pres. Seroprevalence of Human gamma herpesvirus 8 among Jordanians; Principal investigator; MSc thesis for Rania Jamal Mohammed Ayyad; **Funded USD 7,708\$; Ongoing**
- 2022-Pres. Characterization of genes encoding Aminoglycoside-Modifying Enzymes and Plasmid-Mediated Quinolone Resistance among aminoglycosides and quinolones resistant *Klebsiella pneumoniae* clinical isolates from northern Jordan; Principal investigator; MSc thesis for Emad Addin Rizik Mustafa Alabdallah; **Funded USD 7,240\$; Ongoing**
- 2022-Pres Seroprevalence of varicella-zoster virus in the Jordanian population; Co-Co-principal investigator; MSc thesis for Rania Marwan Saleem Abu Saleh; **Funded USD 7,736\$; Ongoing**
- 2021-Pres. Seroprevalence of Epstein-Barr virus and cytomegalovirus in the Jordanian population; Co-Co-principal investigator; non-thesis personal research; **Funded USD 14,055\$; Ongoing**
- 2021-2022 Integron genes and drug resistance among *Escherichia coli* and *Klebsiella pneumoniae* urinary tract clinical isolates; Principal investigator; MSc thesis for Sahar Basil Areef Bani Yaseen; **Funded USD 7,207\$; Completed**
- 2020-Pres. Vancomycin, linezolid, daptomycin, and tigecycline resistance among enterococci isolated from hospital in-patients from Northern Jordan; Principal investigator; MSc thesis for Sumaia Ahmad Mujali AlKufahy; **Funded USD 8,979\$; Ongoing**
- 2019-2020 Clinical and Molecular Epidemiology of Norovirus, Sapovirus, Klassevirus, and Salivirus in Children with Acute Gastroenteritis in Northern Jordan; Co-principal investigator; MSc thesis for Ayat Muhammad Qauqazeh; **Funded USD 7,746\$; Completed**
- 2019-2021 Seroprevalence of Herpes simplex virus type 1 and type 2 among Jordanians; Principal investigator; MSc thesis for Alia' Emran Ibrahim Darabseh; **Funded USD 8,751\$; Completed**
- 2018-2018 Knowledge About Research Ethics and Adequacy of Research Training Among Masters and PhD Students In Jordan. Research study conducted as part of the work for the Fellowship in "Responsible Conduct of Research"; Study required no funding; **Completed**
- 2017-2019 The expression of dermcidin in colorectal, bladder, and thyroid cancer; Principal investigator; MSc thesis for Raneem Waleed Ahmad Awadeen; **Funded USD 7,830\$; Completed**
- 2017-2018 Asymptomatic vaginal colonization, virulence, biofilm formation, and antimicrobial resistance of *Streptococcus agalactiae* among Jordanian pregnant women; Co-principal investigator; MSc thesis for Farah Husam Atawneh; **Funded USD 5,630\$; Completed**
- 2017-2018 Activity of antimicrobial peptide WLBU2 and synergism with antibacterial agents against multidrug resistant *Acinetobacter baumannii* and *Klebsiella pneumoniae*; Principal investigator;

- MSc thesis for Zaina Ahmed Saed Shbair; **Funded USD 8,030\$; Completed**
- 2016-2017 Prevalence of Torque Teno and Dengue Viruses Among Healthy Blood Donors in Northern Jordan and Northern Agwar; Principal investigator; MSc thesis for Doaa Akram Jameel Al-saleh; **Funded USD 9,150\$; Completed**
- 2016-2017 Biosynthesis of silver nanoparticles from *Enterobacter aerogenes* as effective Anti-Biofilm agent against wounds and skin pathogens with their cytotoxicity and genotoxicity effects on human cells; Co-principal investigator; MSc thesis for Omar Farhan Ammar Ammar; **Funded USD 7,040\$; Completed**
- 2016-2017 Biofilm production and aminoglycoside resistance among *Pseudomonas aeruginosa* isolated from burn-wound infections; Principal investigator; MSc thesis for Mai Zuhair Iqab Alabdullah; **Funded USD 5,380\$; Completed**
- 2016-2017 Evaluation of biofilm production and antibiotic susceptibility of bacteria isolated from diabetic foot ulcer patients; Co-principal investigator; MSc thesis for Nazik Ali Yousef Ajo; **Funded USD 5,630\$; Completed**
- 2015-2016 Resistance mediated by 16S rRNA methylases and beta-lactamases among aminoglycoside-resistant Gram-negative clinical isolates; Principal investigator; MSc thesis for Nadia Mahmoud Muhye Aldeen Al-Yahya; **Funded USD 6,120\$; Completed**
- 2015-2016 Antimicrobial Resistance, Virulence Factors, and Genetic Diversity of *Escherichia coli* Isolated from Jordanian Water Sources; Principal investigator; MSc thesis for Heba Tawfeeq Abu Alrub; **Funded USD 6,660\$; Completed**
- 2015-2016 Spread of Extended-Spectrum Beta-Lactamase and Carbapenemase Genes in *Pseudomonas aeruginosa* Isolated From Burn Patients; Principal investigator; MSc thesis for Asma Maher Mustafa Alsharif; **Funded USD 4,640\$; Completed**
- 2015-2015 Prevalence and Molecular Analysis of Human Parvovirus B19 Among Patients with Sickle Cell Disease and Beta-Thalassemia Major; Principal investigator; MSc thesis for Noor Subhi Ahmad Al-Saleh; **Funded USD 9,210\$; Completed**
- 2014-2015 Infections of Hemodialysis Patients in Northern Jordan with BK Virus and Hepatitis C and E Viruses; Principal investigator; Personal research; **Funded USD 11,230\$; Completed**
- 2014-2014 Molecular and Phenotypic Characterization of Carbapenem Resistance and Extended Spectrum Beta-Lactamases Among Urinary *Escherichia coli* Isolates; Principal investigator; MSc thesis for Musa Hassan Muhammad; **Funded USD 3,800\$; Completed**
- 2014-2014 Prevalence of Cytomegalovirus in a Sample of Jordanian Patients Undergoing Hemodialysis; Principal investigator; MSc

- thesis for Maysaa Hani Ahmed Alsaleem; **Funded USD 5,060\$; Completed**
- 2014-2014 Prevalence and Molecular Characteristics of *Streptococcus mutans* Isolated from Healthy and Diabetic Individuals; Principal investigator; MSc thesis for Heba Mohammad Sa'id Mahmoud Obeidat; **Funded USD 5,630\$; Completed**
- 2013-2014 Assessment of Pathogenic Potential of Urinary *Escherichia coli* Isolates by the Detection of Several Urovirulence Genes; Co-principal investigator; MSc thesis for Ma'en Abdullah Al-Odat; **Funded USD 5,630\$; Completed**
- 2012-2013 Hepatitis E virus infection in Jordanian Haemophilia and Beta-thalassemia patients; Principal investigator; MSc thesis for Heba Habis Basher Alfooh; **Funded USD 8,730\$; Completed**
- 2012-2013 Prevalence of hepatitis C virus infection in Jordanian patients undergoing regular blood transfusions; Principal investigator; MSc thesis for Asmaa Khalil Mousa Hussein; **Funded USD 8,450\$; Completed**
- 2011-2013 Genotyping and Serotyping of Multidrug Resistant *Streptococcus pneumoniae* from Northern Jordan; Principal investigator; MSc thesis for George Nikola Bshara; **Funded USD 10,560\$; Completed**
- 2010-2011 Incidence of JC Virus in Colorectal Cancer in Northern Jordan; Co-principal investigator; MSc thesis for Myassar Mustafa Ahmad Barahmeh; **Funded USD 9,700\$; Completed**
- 2010-2010 Investigation of the Incidence of Human Papilloma Virus in Colorectal Cancer in Northern Jordan; Co-principal investigator; MSc thesis for Baker Muhammad Amer Al Sheikh; **Funded USD 9,700\$; Completed**

MASTERS THESIS COMMITTEE MEMBERSHIP

- 2023 Internal Examiner for Sujoud al-Azazmeh MSc Thesis entitled "Role of Candida Infections in Immune Thrombocytopenic Purpura"; JUST, 6/9/2023
- 2023 Internal Examiner for Bahaa' Ra'ed Raja Badran MSc Thesis entitled "Investigation of the effects of vitamin D and vitamin A levels on the immunogenicity of COVID-19 vaccine"; JUST, 10/1/2023
- 2020 Internal Examiner for Nedaa Othman Aldaken MSc Thesis entitled "Molecular diversity of carbapenem-resistant *Acinetobacter baumannii* collected from patients in Jordanian hospitals"; JUST, 18/6/2020
- 2018 Internal Examiner for Nada Ghazi Latayfeh MSc Thesis entitled "Assessment of Biofilm Production Capacity, Antimicrobial Susceptibility Profile, and Prevalence of biofilm virulence Genes of *Staphylococcus aureus* Isolated from Clinical Blood Culture specimens in Jordan."; JUST, 10/5/2018

- 2017 Internal Examiner for Mohammed Tala Nouh Qaoud MSc Thesis entitled "The design of highly potent ultrashort conjugated antimicrobial peptides against planktonic and biofilm forming methicillin-resistant *Staphylococcus aureus*"; JUST
- 2016 External Examiner for Ruba Majed Almasri MSc Thesis entitled "Stylophora pistillata-associated microbial community structure in polluted sites in the gulf of Aqaba"; Yarmouk University
- 2015 Internal Examiner for Rawan Ahmad Mohammad Almadhoun MSc Thesis entitled "The association between atopic dermatitis and leptin gene polymorphisms"; JUST
- 2014 Internal Examiner for Fatima Adamu Shuaibu MSc Thesis entitled "Antibacterial and antifungal activities of selected chalcone-derivatives"; JUST
- 2014 Internal Examiner for Mamun Abd Elqader Suliman MSc Thesis entitled "The association and molecular characterization of *Escherichia albertii* isolated from patients with gastroenteritis or urinary tract infections"; JUST

HONORS AND AWARDS

- 2009 American Society for Biochemistry and Molecular Biology Travel Award, Experimental Biology 2009, New Orleans, LA, \$1250.00
- 2009 Alabama EPSCoR fellowship, \$25,000.00
- 2008 Alabama EPSCoR fellowship, \$25,000.00
- 2007 Alabama EPSCoR fellowship, \$25,000.00
- 2005 Ranked 1st among MSc graduates
- 2002 Graduated with honors (BSc) Ranked 1st among 1997 class

SERVICE AT UNIVERSITY OF SOUTH ALABAMA (PhD Student)

- 2008-2009 Biochemistry and Molecular Biology department representative for the Basic Medical Sciences Student Organization, USA, Mobile, AL
- 2007-2008 Biochemistry and Molecular Biology department representative for the Basic Medical Sciences Student Organization, USA, Mobile, AL

COMMUNITY SERVICE

- Jan 2023 **Head of the Higher Education Accreditation Committee** for accreditation of the Medical Analyses BSc and Medical Imaging BSc programs at the Al-Hussein Bin Talal University (ABU), Jordan (9/1/2023-18/1/2023)

- 24/05/2022 Blood Drive at Jordan University of Science and Technology, Irbid, Jordan [Participated in the event; Event organized by MLS department in association with the National Blood Bank of Jordan]
- 07/05/2018 Medical day at Kufur Rakeb, Irbid, Jordan [Organized MLS department's participation efforts in the event]
- 26/09/2017 Medical day at Almazar Alshamali. Jordan [Co-organized the MLS department's participation efforts in the event]
- 16/04/2015 Medical day at Fatima Bent Elyaman School. Hoarrah. Jordan [Co-organized the event. Conducted medical analyses for local residents]
- 22/11/2014 Social day at Mabaret Elhussain. Irbid. Jordan [Co-organized the event and participated in the day's activities]
- 27/3/2014 Member of the **Higher Education Accreditation Committee** for accreditation of the Medical Laboratories Sciences program at the Hashemite University, Jordan
- 16/11/2013 Medical day at Al-Turrah School for Girls. Al-Turrah. Jordan [Conducted medical analyses for local residents]
- 24/11/2012 Medical day at Mabaret Elhussain. Irbid. Jordan [Conducted medical analyses to the orphanage's resident children and staff]

MEMBERSHIPS

International Society for Infectious Diseases

COMMITTEE MEMBERSHIPS

HIGHER EDUCATION ACCREDITATION COMMISSION (HEAC) COMMITTEES

- Jan 2023 **Head of the Higher Education Accreditation Committee** for accreditation of the Medical Analyses BSc and Medical Imaging BSc programs at the Al-Hussein Bin Talal University (ABU), Jordan (9/1/2023-18/1/2023)
- 27/3/2014 Member of the **Higher Education Accreditation Committee** for accreditation of the Medical Laboratories Sciences program at the Hashemite University, Jordan

ACADEMIC PROMOTION COMMITTEES

- 21/06/2023 Tenure Committee for Associate Professor Dr. Rowaida Almomani (at Department of Medical Laboratory Sciences)
- 27/10/2022 Promotion Committee to Associate Professor for Dr. Rowaida Almomani (at Faculty of Applied Medical Sciences)
- 16/10/2022 Promotion Committee to Associate Professor for Dr. Rowaida Almomani (at Department of Medical Laboratory Sciences)

15/5/2022 Promotion Committee to Associate Professor for Dr. Noor Almortadi (at Faculty of Applied Medical Sciences)

UNIVERSITY COMMITTEES (JUST)

2016-2017 Member in JUST graduate studies committee (2016/2017)

FACULTY OF APPLIED MEDICAL SCIENCES COMMITTEES (JUST)

2023-2024 Member of the curriculum accreditation committee

21/6/2023 Head of the Committee for the JUST Distinguished Instructor Award at the Faculty of Applied Medical Sciences for year 2023

2022-2023 Member of the curriculum accreditation committee

2022-2023 Member in the Faculty of Applied Medical Sciences press committee

8/6/2022 Head of the Committee for the JUST Distinguished Instructor Award at the Faculty of Applied Medical Sciences for year 2022

15/2/2022 Member in the ASIC international accreditation committee

2018-2019 Member in the Faculty of Applied Medical Sciences press committee

2012-2013 Representative for the Faculty of Applied Medical Sciences at JUST's University Council

2010-2011 Medical Laboratory Sciences department representative at faculty committee

DEPARTMENT OF MEDICAL LABORATORY SCIENCES COMMITTEES (JUST)

2022-2023 Head of the curriculum accreditation committee

2022-2023 Member in the graduate studies committee

2022-2023 Member in the scientific research committee

2022-2023 Member in the field training committee

2021-2022 Head of the curriculum accreditation committee

2021-2022 Member in the graduate studies committee

2021-2022 Member in the field training committee

2020-2021 Member in the graduate studies committee

2020-2021 Member in the accreditation, curriculum, and field training committee

2019-2020 Member in the graduate studies committee

2019-2020 Member in the accreditation, curriculum, and field training committee

- 2018-2019 Member in the graduate studies committee
- 2018-2019 Member in the accreditation, curriculum, and field training committee
- 2017-2018 Head of the graduate studies and scientific research committee
- 2017-2018 Head for the accreditation, curriculum, and field training committee
- 2016-2017 Head of the graduate studies and scientific research committee
- 2016-2017 Head for the accreditation, curriculum, and field training committee
- 2015-2016 Head of the graduate studies and scientific research committee
- 2015-2016 Member in the accreditation, curriculum, and field training committee
- 2014-2015 Head of the graduate studies and scientific research committee
- 2014-2015 Member in the accreditation, curriculum, and field training committee
- 2013-2014 Member in the accreditation, curriculum, and field training committee
- 2013-2014 Member in courses' equivalence committee
- 2013-2014 Member in the scientific and social activities committee
- 2013-2014 Member in field training assessment and supervision committee
- 2012-2013 Member in the graduate studies and scientific research committee
- 2012-2013 Member in the accreditation, curriculum, and field training committee
- 2011-2012 Member in the graduate studies and scientific research committee
- 2011-2012 Member in courses' equivalence committee
- 2011-2012 Member in the scientific and social activities committee
- 2010-2011 Member in the foreign students' affairs committee
- 2010-2011 Member in the scientific and social activities committee

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