

# CURRICULUM VITAE

## Prof. Dr. Ismail MK Saadoun



### PERSONAL

Name : Ismail Mohammed-Khair Saadoun  
Present Rank : Full Professor  
Date of Birth : 11th Feb. 1962  
Place of Birth : Zarka-Jordan  
Citizenship : Jordanian  
Marital Status : Married  
Children : 3 Children

### PRESENT ADDRESS

Work: Department of Applied Biology  
College of Sciences  
University of Sharjah  
P.O. Box 27272  
Sharjah-UAE  
E-mail: [isaadoun@sharjah.ac.ae](mailto:isaadoun@sharjah.ac.ae)  
Tel: (+971 6) 5053807, 5052217  
Fax: (+971 6) 5053814  
Mobile: (+ 971 50) 3643276

Home: University of Sharjah  
Zahrawi Complex, M6  
Tel: (+ 971 6) 5589819

### EDUCATION

Ph.D. Microbiology, Auburn University, Alabama, USA, 1995.  
\* **Title of Dissertation:** "Physiology and Genetics of Production of Off-Flavor Compounds by Aquatic Microorganisms".

M.Sc. Science (Biological Sciences/Microbiology), Yarmouk University, Irbid-Jordan, 1987  
\* **Title of Thesis:** "Isolation and Characterization of the Genus *Streptomyces* as a Soil Actinomycetes From Jordan Valley".

B.Sc. Science (Major: Biology, Minor: Medical Tech.) Yarmouk University, Irbid-Jordan , 1984.

## BIOGRAPHY

Received his Ph.D. in Microbiology from Auburn University, Alabama-USA in 1995. During his Ph.D., he worked on physiology and genetics of production of off-flavor compounds by streptomycetes and cyanobacteria. He taught several courses in biology and biotechnology including basic biotechnology, environmental biotechnology, general biology, general microbiology, molecular biology, environmental microbiology, scientific writing, seminars, advanced microbiology, biotechnology to master students, and supervised several undergraduate and graduate students to conduct their research projects at his laboratory. He is a member of the American Society for Microbiology (ASM) from 1992-2009, Jordan Society For Scientific Research (JSSR), and a Fellow of Society of Biology/UK. Prof. Saadoun has published several scientific papers through different research proposals granted as principal and associate investigator, in different abstracted, refereed and indexed Journals. Most of these papers were in the area of inhibitory/metabolites-producing *Streptomyces* spp. and their genetic determinants. Enrichment of microorganisms from polluted sites to be used in biodegradation of contaminants and selection of plant seeds to grow on contaminants to be used in phytoremediation are another key points in his research interest and published papers. Also he has participated in several local, regional and international meetings to present his work as a talk or as a poster. In 2000, he has been awarded Abdel-Hameed Shuman Award for Arabian Young Researchers for Biological Sciences. Meanwhile, his research is targeting to patent a novel metabolite compound(s) produced by one of the *Streptomyces* spp. isolated from different habitats.

Prof. Saadoun has been appointed as chair for the Dept. of Biotechnology and Genetic Engineering at Jordan University of Science & Technology/Irbid-Jordan from 2000 to 2001 and from 2003 to 2005. Also, he has been appointed as a chairman for the Dept. of Biotechnology and Genetic Engineering at Philadelphia University/Amman-Jordan from 2001 to 2002, and for the Dept. of Applied Biology at University of Sharjah, United Arab Emirates from 2009 to 2014 where he acted during this period as the Biotechnology Program Coordinator with the University of Sheffield/UK.. Currently he is the Vice Dean of College of Sciences.

Prof. Saadoun is quite interested in working at a prestigious institute of high standards both in academic and research because this will give him the opportunity to establish a research group involving different local laboratories and abroad. He finds working abroad very stimulating and satisfying and he is fully prepared to work in a team or on his own and take the responsibilities involved.

## PROFESSIONAL EXPERIENCES

### A- Positions:

1987-1989:	Military Service/Irbid Military Hospital-Jordan (Medical Labs. Technician)
1989 - 1991:	Teaching Assistant/ Dept. of Applied Biological Sciences, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
1995-2000:	Assistant Professor at the Department of Applied Biological Sciences, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
1999-2001:	Chairman of Department of Applied Biological Sciences, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
2000-2001:	Chairman of Department of Biotechnology & Genetic Engineering, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
2001-2002:	Chairman of Department of Biotechnology & Genetic Engineering, Faculty of Science, Philadelphia University, Amman-Jordan.
2003-2005:	Chairman of Dept. of Biotechnology & Genetic Engineering and Dept. of Applied Biological Sciences, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
2000-2006:	Associate Professor at the Department of Applied Biological Sciences and Department of Biotechnology & Genetic Engineering, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
2006-2009:	Full Professor at the Department of Applied Biological Sciences and Department of Biotechnology & Genetic Engineering, Faculty of Science, Jordan University of Science and Technology, Irbid-Jordan.
2009-Present	Full Professor at the Department of Applied Biology, College of Sciences, University of Sharjah, Sharjah, UAE.
2009-2014	Chairman of Department of Applied Biology, College of Sciences, University of Sharjah, Sharjah, UAE.
2009-August 2013	Biotechnology Program Coordinator with University of Sheffield/UK.
2014-215	Assistant Dean, College of Sciences, University of Sharjah, Sharjah, UAE.
2015-Present	Vice Dean, College of Sciences, University of Sharjah, Sharjah, UAE.

## B- Honors and Awards

1980-1984	Undergraduate Scholarship, Jordanian Military Forces, Jordan
1984-1986	Graduate Assistantship, Deanship of Scientific Research and Graduate Studies, Yarmouk University Irbid, Jordan.
1987	His Majesty King Hussein Award For Outstanding Graduate Student
1991-1995	Graduate Scholarship, Jordan University of Science and Technology
1993	Graduate Fellowship Award. Graduate School, Auburn University, AL
1994	Graduate Fellowship Award. Graduate School, Auburn University, AL
2000	Abdel-Hameed Shuman Award for Arabian Young Researchers/Biological and Environmental Sciences/1999
2000	Ministry of Culture Award for Creative People in Literature, Culture and Arts/1999-00
2014	Annual Incentive Award for Distinguished Faculty Members/Teaching Category (2013/2014)-University of Sharjah/UAE
2015	Annual Incentive Award for Distinguished Faculty Members/Research Category (2014/2015)-University of Sharjah/UAE

## C-Appreciation Certificates

2012	Appreciation certificate from Vice Chancellor of Academic Affairs/Dean of College of Sciences for my dedication and commitment to develop the Biotechnology Program within the College of Science/UoS-Sharjah-UAE. (12/12/2012).
2013	Appreciation certificate from Vice Chancellor for Medical & Health Sciences Colleges, Dean, College of Medicine In recognition of my valuable contribution to the forum "Community Participation in Reviewing the College Mission, Vision and Graduate Profile" /UoS-Sharjah-UAE, (March 23 <sup>rd</sup> 2013).
2013	Appreciation certificate from Vice Chancellor of Academic Affairs/Dean of College of Sciences for my efforts in teaching Int. to Forensic Science during Spring 2012/2013/ UoS-Sharjah-UAE, (May 14 <sup>th</sup> 2013).
2013	Appreciation certificate from Dean of College of Health Sciences for my participation as an External Jury Member during the 2 <sup>nd</sup> Scientific Research Day/ UoS-Sharjah-UAE, (May 8 <sup>th</sup> , 2013).
2013	Appreciation certificate from Vice Chancellor of Academic Affairs/Dean of College of Sciences for my Academic Excellence and commitment to develop the Biotechnology Program within the College of Science in the last 5 years. UoS-Sharjah-UAE, (Dec. 18 <sup>th</sup> , 2013).
2014	Certificate of Appreciation from UoS handed by Chancellor of UoS for winning Annual Incentive Award for Distinguished Faculty Members/Teaching Category (2013/2014)
2015	Certificate of Appreciation from UoS handed by His Highness Sheikh Dr. Sultan Bin Mohammed Alqassimi, <i>Member of the UAE Supreme Council Ruler of Sharjah, President of the University of Sharjah</i> for winning Annual Incentive Award for Distinguished Faculty Members/Research Category (2014/2015)
2016, 2017	Certificate of Thanks & Appreciation for the Outstanding Contribution to the Judging Panel of the "Think Science" Competition & Fair. Emirates Foundation, Dubai-April 16-19 <sup>th</sup> , 2016, April 18-20 <sup>th</sup> , 2017.
2017	Certificate of Appreciation from Abu Dhabi University in recognition of supervising students participating in the 5 <sup>th</sup> UAE Undergraduate Student Research Competition. May 8 <sup>th</sup> , 2017

## D-Membership in Professional Societies and Organization

1992-2009	American Society for Microbiology (ASM)
2010-Present	Jordan Society for Scientific Research (JSSR)
2012-Present	Fellow of Society of Biology/UK
1996-1997	Member of the Board of Faculty of Science/ JUST.
1995-2009	Member of several Departmental and Faculty of Science Committees/JUST
1999-2001	Member of the Board of Faculty of Science/JUST.
2001-2002	Member of the Board of Faculty of Science/Philadelphia University
2003-2005	Member of the Board of Faculty of Science/ JUST.
2009-Present	Member of the Board of Faculty of Science/ University of Sharjah (UOS), Sharjah-UAE.

## E- Assigned Duties

### i- Allocation of Time:

<u>Activity</u>	<u>Percent</u>
Administration	25
Teaching	45
Research	20
Undergraduate Advising	07
Graduate Advising	03

### ii- TEACHING

#### 1-University Courses Taught

I have been teaching the following courses since I was appointed at JUST/Jordan in 1995, Philadelphia University/Jordan in 2001, and University of Sharjah/UAE in 2009. Each course was taught at least once every academic year. however, some of these courses were taught twice per year.

#### a-Experience (Jordan University of Science & Tecnology 1995-2009)

<b>Course</b>	<b>No. of Semesters</b>
General Biology (B 101, B 102, and B 103)	8, 6, 5 respectively
Basic Biotechnology B 332/Bt 232	20
General Microbiology B 331	4
Scientific Writing and Presentation Bt 391	4
Field Training B 399/B 390	2
Environmental Microbiology B 436	1
Environmental Biotechnology Bt 436	11
Molecular Biology B 451	3
Undergraduate Seminar Bt 491	6
Special Topics B/Bt 492 A - Taste & odor problems in drinking water supplies. - Actinomycetes and their metabolites.	2
Special Topics Bt 492 B - Microbial Genetics	2
Special Topics Bt 492 C	1
Graduation Project Bt 493	3
Legal, Social and Ethical Aspects of Biotechnology Bt 496	1
Advanced Microbiology B 731	2
Advanced Environmental Microbiology B 737	1
Advanced Molecular Biology B 751	1
Advanced Special Topic B 791 - Biodegradation & Bioremediation - Risk Assessment of Genetically Modified Organisms	2

#### b- Experience (Philadelphia University, Amman-Jordan/ 2001-2002)

<b>Course</b>	<b>No. of Semesters</b>
Pharmaceutical Microbiology I (530212)	1
Pharmaceutical Microbiology II (530261)	1
General Microbiology (for Nursing) 240214	1 (2 <sup>nd</sup> Semester, 05/06)

**c- Experience (University of Sharjah-UAE/ 2009--Present)**

Course	No. of Semesters
General Biol. 1450101	6
General Biol. 1450102	5
General Biology Lab. 1450107	1
Basic Biotechnology 1450201	8
Advising & Guidance	2
Gen. Microbiology 1450331	7
Introduction to Forensic Science 1450311	7
Scientific Writing and Presentation 1450391	4
Field Training 1450399	5
Microbial Processing & Biotechnology 1450431	1
Environmental Biotechnology 1450436	4
Seminar 1450491	3
Research Project 1450493	9
Int. to Biotechnology 0900706	5
Biotechnology and Genetic Engineering 1450502	1

**2-Graduate Students Supervised as Major Advisor (JUST/Jordan)**

Name	Date	Degree	Current Position
Mr. Maher Obeidat	1997-1999	M.Sc.	Graduate Fellow, JUST
Mr. Johnny Amer	1999-2000	M.Sc.	Graduate Fellow, JUST
Mr. Raad Gharaibeh	1999-2001	M.Sc.	Graduate Fellow, JUST
Mr. Orwa Batayneh	2000-2002	M.Sc.	Graduate Fellow, JUST
Mr. Rifaat Rawashdeh	2001-2003	M.Sc.	Graduate Fellow, JUST
Mss. Serine Bataieneh	2001-2004	M.Sc.	Graduate Fellow, JUST
Mss. Ahlam Dawaghreh	2004-2006	M.Sc.	Graduate Fellow, JUST
Mr. Ibrahim Al-Tayar	2004-2006	M.Sc.	Graduate Fellow, JUST
Mr. Mohammed Awawdeh	2004-2006	M.Sc.	Graduate Fellow, JUST
Mss. Asia Malkawi	2004-2006	M.Sc.	Graduate Fellow, JUST
Mrs. Ruquai Al-Omari	2004-2006	M.Sc.	Graduate Fellow, JUST
Mss. Hanadi Ananbeh	2004-2006	M.Sc.	Graduate Fellow, JUST
Mr. Qotaiba Ababneh	2005-2009	M.Sc.	Graduate Fellow, JUST

**3-Graduate Students Supervised as Co-Advisor (JUST/Jordan)**

Name	Date	Degree	Current Position
Mr. Wasif Sharadqeh	1998-2000	M.Sc.	Graduate Fellow, JUST
Mr. Ibrahim Ibrahim	1998-2000	M.Sc.	Graduate Fellow, JUST
Mss. Jwan Ibbini	2000-2002	M.Sc.	Graduate Fellow, JUST

Mr. Jazi Odat	2001-2004	M.Sc.	Graduate Fellow, JUST
Mr. Emad Tahtamouni	2003-2005	M.A.	Graduate Fellow, JUST
Mr. Ahmad Funjan	2004-2006	M.Sc.	Graduate Fellow, JUST
Mss. Nawal A. Samara	2004-2007	M.Sc.	Graduate Fellow, JUST

#### 4-Undergraduate Students Supervised as Major Advisor for Graduation Project

##### A-JUST/Jordan

Name	Dept./University	Year	Project Title
Mr. Faris Bdair	Applied Biology/JUST	1996	Diversity of antibiotic-producing soil streptomycetes in Jordan
Ms. Suha Makhloof	Applied Biology/JUST	1997	Antifungal activity of soil streptomycetes isolated from Jordan
Ms. Hiba Al Aqraa	Applied Biology/JUST	1998	Antibacterial activity of <i>Orobancha cernua</i> extract
Mr. Erwah Al Bataineh	Applied Biology/JUST	1999	Physiology of antibiotic production by <i>Streptomyces starin</i> N-404
Mr. Abdulla Al-Shak'ah	Civil Engineering/JUST	2002	Selection of bacteria and plant seeds to grow on diesel fuel to be used in remediation of diesel contaminated soils.
Mr. Billal Al Fukaha	Biotechnology & Genetic Engineering/JUST	2003	Diversity of <i>Pseudomonas</i> spp. in fuel-oil polluted soils in Jordan
Ms. Nadine Hijazi	Biotechnology & Genetic Engineering/JUST	2005	Genetic determinants of antibiotic-producing soil streptomycetes
Mr. Hazem Hadad	Biotechnology & Genetic Engineering/JUST	2006	Mutagenic effect of ethidium bromide on <i>Streptomyces</i> strain N-404
Mr. Hassan Al Junaidi	Biotechnology & Genetic Engineering/JUST	2008	Plant Seed germination under diesel fuel contamination

##### B-UoS/UAE

Ms. Mariam Jumaa Ms. Khafiya M.	Applied Biological Sciences/UoS-Sharjah, UAE	2012	Searching of inhibitory bioactive compounds produced by marine streptomycetes isolated from mangrove rhizosphere soil from Khor Kalba' shores
Ms. Fatehia Banamah, Ms. Muniba Kanwal , Ms. Weam Babiker	Applied Biological Sciences/UoS-Sharjah, UAE	2012	Studies on the antibacterial effect of plant materials and their role as antioxidant and fibroblast growth stimulators
Ms. Mariam Al Ali, Ms. Aisha Al-Souqi , Ms. Shahad Al-Nuaimi, Ms. Mooza AlKharje	Applied Biological Sciences/UoS-Sharjah, UAE	2013	Cultural and Molecular Characterization of Mesophilic Streptomycin-Producing Isolates Recovered from Sand Dunes Soil
Ms. Asma Ahmed	Applied Biological Sciences/UoS-Sharjah, UAE	2013	Isolation of Polyhydroxyalkanoate (PHA) Producing Bacteria
Ms. Alia Yamanial , Ms. Aisha Nasir	Applied Biological Sciences/UoS-Sharjah, UAE	2013	Impact of allelopathic plant metabolites on soil microbiota and germination of desert plant seeds

Ms. Ruqaiya A. Ismail Ms. Marwa M. Albousy Ms. Aisha H. Alalili	Applied Biological Sciences/UoS-Sharjah, UAE	2013	Isolation and Characterization of Hydrocarbon Degrading Bacteria from Oil-Spilled Seawater
Mrs. Lina Al Challah Ms. Aisha M. Hamoudi Ms. Fatima Aldhuhouri	Applied Biological Sciences/UoS-Sharjah, UAE	2014	Inhibitory bioactive compounds from leaves of desert plants and their effects on drug multi-resistant bacterial pathogens
Ms. Aisha Kebe Ms. Lamyia Alsir Ms. Iman G. Saleh	Applied Biological Sciences/UoS-Sharjah, UAE	2014	Susceptibility of eukaryotic microorganisms (Yeast and Candida) to inhibitory bioactive compounds produced by soil streptomycetes
Ms. Maitha Alblooshi Ms. Fawziah Almashama Ms. Aisha Al-Geelani Ms. Eman Obaid	Applied Biological Sciences/UoS-Sharjah, UAE	2014	Inhibitory bioactive compounds produced by soil streptomycetes and their activity against Gram positive and negative bacteria
Ms. Malika S. Senan Ms. Hanan Omar Ms. Fatima Lahmadi Ms. Moza Saif	Applied Biological Sciences/UoS-Sharjah, UAE	2014	Amylolytic and proteolytic enzymes produced by soil streptomycetes
Ms. Salma Altuniji Ms. Hamdah Alajami Ms. Moza Alzaabi Ms. Alya Alsuwaidi Ms. Maryam Alfalasi	Applied Biological Sciences/UoS-Sharjah, UAE	2015	Susceptibility of Multi-drug Resistant Pathogens to Inhibitory Bioactive Compounds Produced by Potentially Novel Soil Streptomycetes
Mr. Ahmad Muzamil Mr. Abdullah Bader Mr. Ibrahim Akkad Mr. Faisal Alhosani.	Applied Biological Sciences/UoS-Sharjah, UAE	2015	Cultural and Molecular Characterization of Potentially Novel Soil Streptomycetes
Ms. Sala Abdulkareem Ms. Jawaher Ahmed Ms. Maitha Ismail Ms. Sara Humaid Ms. Reem Hassan	Applied Biological Sciences/UoS-Sharjah, UAE	2015	Antibacterial Activity of some Acid Catalyzed Schiff Bases
Ms. Latifa Alketbi Ms. Latifa Sultan Ms. Fatma Almulla Mr. Ali Yarub Mrs. Mrs. Eman Alketbi	Applied Biological Sciences/UoS-Sharjah, UAE	2016	Phylogenetic identification of terrestrial streptomycetes from cultivated soils in the UAE
Ms. May Adel Ms. Fatema Mousa Ms. Ghaya Abdalla Ms. Alanoud Arif Ms. Rowda Abdalla Mr. Rohail Rafat	Applied Biological Sciences/UoS-Sharjah, UAE	2016	Morphological and Biochemical identification of indigenous Biotechnological microorganisms isolated from UAE's terrestrial habitats
Ms. Dana Aljneibi Ms. Aisha Abdul Ms. Sara Saleh Ms. Nouf Emad	Applied Biological Sciences/UoS-Sharjah, UAE	2016	Isolation and Characterization of Hydrocarbon Degrading Bacteria from Crude Oil Wells and Water Environments Contaminated with Hydrocarbon Compounds

## 5-Examining Committee

### I- M.Sc. Thesis:

1. Distribution of *Streptomyces* colour series in some non-cultivated Iraqi soils and their antimicrobial activity against Gram negative bacteria. By **Khalil Aftan**. 1998. Dept. of Biological Sciences-Yarmouk University, Jordan.
2. Characterization of *Bacillus thuringiensis* strains isolated from Northern Jordan and their insecticidal activity. By **Maher Obeidat**. 1999. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
3. Effect of soil-water separation techniques on the adsorption characteristics of bacteria onto Soil. By **Samah Alsharaa**. 2000. Dept. of Civil Engineering, Jordan University of Science & Technology, Jordan.
4. Biological degradation of plastic by microorganisms isolated from Jordanian habitats. By **Ibrahim Ibrahim**. 2000. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
5. Lignin Biodegradation during the process of biological conversion of olive mill by-product (Jift). By **Wasif Sharadga**. 2000. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
6. Isolation and characterization of bacteria that can grow in tomato pomace and produce fiber hydrolytic enzymes. By **Ousama Al-Oukily**. 2000. Dept. of Biological Sciences-Jordan University, Jordan
7. Diagnostic use of polymerase chain reaction for detection of *Pneumocystis carinii* and *Mycobacterium tuberculosis* in cases of pulmonary infections. By **Johnny Amer**. 2000. Dept. of Medical Laboratory Sciences. Jordan University of Science & Technology, Jordan.
8. Wastewater management and treatment for Jordan Petroleum Company Refinery. By **Shakeeb S. Ali**. 2001. Dept. of Civil Engineering. Jordan University of Science & Technology, Jordan.
9. Use of 16S rDNA in molecular identification of antibiotic-producing soil *Streptomyces* strains isolated from different habitats in Jordan. By **Raad Gharaibeh**. 2001. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
10. Effect of olive mills by-products on biodiversity of soil microflora and their biodegradation potential. By **Jwan Ibbini**. 2002. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
11. Ecology, distribution and primary production of phytoplankton in Wadi Al-Arab Dam reservoir. By **Erwah Batayneh**. 2002. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
12. Epidemiological study of *Pseudomonas aeruginosa* clinical isolates by serotyping PCR and antimicrobial sensitivity methods. By **Riham Karam Jalal Odeh** . 2002. Dept. of Biological Sciences-Jordan University, Jordan.
13. Conventional and molecular characterization of hydrolytic enzymes-producing streptomycetes isolated from forest soils and their potential to degrade agricultural wastes. By **Rifaat Radi Rawashdeh**. 2003. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
14. Screening for bioherbicide-producing streptomycetes isolated from soils in Jordan. By **Sreen "Mohammad Bader" Bataineh**. 2004. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.



15. Molecular characterization of antibiotic-producing *Streptomyces* by cloning of species specific DNA markers. By **Jazi Daifallah Odat**. 2004. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
16. Potential biological control of the cottony rot disease agent ( *Sclerotinia sclerotiorum* ) on cucurbits utilizing actinomycetes isolates from different soils in Jordan. By "**Mohammad Emad**" **Tahtamouni** 2005. Dept. of Plant Production-Jordan University of Science & Technology, Jordan.
17. Comparative study of the airborne medically important microorganisms in operating theaters and intensive care units in hospitals, Irbid-Jordan. By **Ibraheem Ali Al-Tayyar** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
18. Cellulolytic and pectinolytic soil streptomycetes and their potential to degrade different fruit pomaces. By **Ahlam Amjad Dawagreh** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
19. Enzymatic, antibiotic and degradation activities of hydrocarbon-polluted soil streptomycetes. By **Mohammed Turki Awawdeh** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
20. Molecular analysis of *Erwinia* species based on 16S rDNA gene species. By **Ahmad Issa Funjan** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
21. Searching for antifungal inhibitory bioactive compound(s) produced by soil streptomycetes. Optimal production conditions, extraction, purification and characterization. By **Asia Muhana** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
22. Screening for chitinolytic streptomycetes isolated from Jordanian soils: Characterization, purification and optimal production conditions. By **Ruqia Al Omari** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
23. Occurrence, distribution, metabolic and degradation activities of soil streptomycetes in Jordan. By **Hanadi Ananbeh** 2006. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
24. Isolation of *Enterobacter sakazakii* from food, herbs and environmental samples and the subsequent identification and confirmation of the isolates using traditional and molecular methods. By **Nawal Samara** 2007. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
25. Molecular and cultural identification of MBL-Producing *Pseudomonas aeruginosa*. By **Ma'en Al-Da'abseh** 2008. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
26. Molecular Surveillance of Enteroviruses in Al-Zarqa River, Jordan. By **Qotaiba Omar Issa Ababneh**. Jan. 2009. Dept. of Applied Biological Sciences-Jordan University of Science & Technology, Jordan.
27. Microarray Analysis of Arbidopsis WRKY33 Mutants in Response to the Necrotrophic Fungus *Botrytis cinerea*. By **Shamma Al Shamsi**. Nov. 2016. Dept. of Biology/College of Science, UAE University, UAE.
28. Investigation of Native UAE Microbes for Bioremediation of Water Contaminated with Aliphatic and Aromatic Hydrocarbons. By **Ruqia A. Ismail**. April 2017. Masdar Institute of Science and Technology, Abu Dhabi, UAE.

## 6- Academic Program Coordinator

**A-** Biotechnology Program at Islamic University of Gaza in collaboration with Jordan University of Science and technology (JUST)/Jordan, and Univesristy Malaysia Sabbah. Quality Improvement of an Undergraduate Biotechnology Program. 2006-2011.

**B-** Biotechnology Program at University of Sharjah (UOS) in collaboration with the University of Sheffield/UK. 2009-August 2013.

**C-** Master Biotechnology Program at University of Sharjah (UOS). Nov. 2014.

## 7-Philosophy

I have been teaching for 22 years and still giving the best every year for my teaching career. As parts of the teaching process, both the teacher and students learn from each other and thus both parts, do participate. Teaching is an exciting message to be delivered in a dynamic way depending on needs and latest update developments. However, the vision for my future academic teaching is based on the following:

**Preparation:** Preparation of any teaching material is a basic educational concept that should be applied at any teaching level. Because my career started at a state university where student crowdedness is common especially in the general courses such as biology, I feel to get prepared would allow to control large classes. Preparation reflects the organization of the course syllabus, audiovisual aids and update literature. Construction of a course syllabus in a way that explains how the course will proceed, its objectives, and contents. In addition, the date of exams, type of questions, textbook, and grade distribution should be emphasized. Be prepared in advance with windows for amendments and changes enabled me to participate in different activities such as supervision of undergraduate and graduate students, writing proposals and attending different local, national and international meetings.

**Assessment of Strategies and Tools:** Encourage the students during the entire period of the class to think about the subjects of the course and how that would help them in their future. I expect that my students will acquire knowledge, skills of thinking and writing. As a biology and biotechnology teacher, I usually encourage my students to go outside the campus boundaries to engage with the society and to achieve the objectives of the course. This is clearly stated in the syllabi of my different courses, which aim to have applications in our lives.

**Fairness:** I mean to understand and take care of students as a role model and respect the differences among people in term of thoughts, feelings, abilities and backgrounds. Makeup exams might explain this point providing that these exams not to hammer the students, but as an evaluation tool that should reflect students' performance.

**Advising and Office Hours:** My previous 22 years of teaching experience taught me to take care of students during their terms of study. Advising students to prepare their schedules, and how to upgrade their accumulative averages is important. I expect from the office hours to direct students before and after exams and discuss the points that help them to perform better.

**Examinations:** Teachers use different tools to assess student performance such as home works, quizzes and performance follow-up; however, examinations are common. I expect from my exams to assess the students' performance to a certain subject in addition to achieve the objectives of the course. As an examiner, objectiveness is crucial and entitles grading of exams based on a key that is usually should be discussed after the exam period. All changes or amendments to the exam should be pointed out to the instructors and particularly in the multi-section courses. Online exams are examples of application of objectiveness and a new technology that would develop courses.

How to implement the above concepts and improve my approach in the classroom is gained through my daily practice, which is enriched with updated literature and students' evaluations.

# LEADERSHIP

## A-Experience

Position	University	Country	Year
Chairman of Department of Applied Biological Sciences	Jordan Univ. of Science & Technology	Jordan	1999-2001
Chairman of Department of Biotechnology & Genetic Engineering	Jordan Univ. of Science & Technology	Jordan	2000-2001
Chairman of Department of Biotechnology & Genetic Engineering	Philadelphia University	Jordan	2001-2002
Chairman of Dept. of Biotechnology & Genetic Engineering and Dept. of Applied Biological Sciences	Jordan Univ. of Science & Technology	Jordan	2003-2005
Chairman of Department of Applied Biology	University of Sharjah	Sharjah/UAE	2009-2014
Assistant Dean	University of Sharjah	Sharjah/UAE	2014-2015
Vice Dean	University of Sharjah	Sharjah/UAE	2015-Present

## B-Philosophy

I was chair of both Department of Applied Biological Sciences and Department of Biotechnology & Genetic Engineering at Jordan University of Science and Technology (JUST)/Irbid-Jordan for two periods between 1999 and 2001 and between 2003 and 2005. During my first sabbatical year (2001-2002) and the second one (2009-Present) I was the chairman of Department of Biotechnology and Genetic Engineering at Philadelphia Private University/Amman-Jordan, and Dept. of Applied Biology, University of Sharjah (UoS), Sharjah, UAE, respectively.

The Department of Biotechnology & Genetic Engineering at (JUST) has seventeen-faculty member, 12 supporting staff in addition to scholars who are studying for their Ph.D in USA. The department offers courses to more than 2500 students and is recruiting the best students who graduate from the high school with a total number of students at this time to be over 500. The department has the necessary infrastructure for 4 general biology labs, 2 labs for each of Genetics/Molecular biology and Microbiology/Microbial biotechnology, and 1 lab for each of biochemistry/protein biotechnology, immunology/tissue culture, and plant biotechnology. In addition, the department hosts 8 research labs. At the University of Sharjah/UAE, the Dept. of Applied Biology has 10 faculty member and 4 supporting staff. The department offers courses to more than 600 students and is recruiting the best students who graduate from the high school with a total number of students at this time to be over 430. Our department has the necessary infrastructure for general biology lab, Genetics/Molecular biology and Microbiology/Microbial biotechnology, biochemistry/protein biotechnology, immunology/tissue culture, and plant biotechnology

I took the responsibility to chair the department from the first decision to be established at all of JUST, Philadelphia University/Jordan and University of Sharjah/UAE. Those years I spent as a chairman were of gaining experience, playing as a team leader and communicate with different academic and non-academic departments. My philosophy as a team leader was based on the following:

**Leading and Direction:** As a chairman and in my new workplace that include people of different attitudes, manners and backgrounds I learned to lead the others in a manner that achieved respect, fairness and openness. To direct my colleagues with respect to their positions mean to encourage them and seize all opportunities to contribute to the different activities that would develop both themselves and the department, in addition to submission of proposals to be funded internally or externally. Supporting staff was also directed to be involved in the department tenders, budget and organization of teaching labs, stores and inventory process. Any opportunity that would develop the supporting staff was followed with the higher offices.

**Follow-up and Organization:** Once the term is started, several actions need to be followed up, which include the organization of the schedule and load, preparation of the syllabus of each offered course, office hours for each faculty, solving the problems of each expected graduating student and find a suitable place for our students to be trained as one of requirements for graduation.

**Innovations and Initiatives:** I was successful to implement new ideas that would develop the performance of students and colleagues. One example is the syllabus for the seminar and graduation research project which was

absent before that. When a position is asked by a colleague or by part timers and to be fair while discussing all applications, criteria were established. In addition, different forms of evaluation for graduation research projects, seminars were also established. To reduce the number of similar courses that used to be offered by different departments at JUST, a personal proposal to the administration on how to implement courses in each department and how faculty members at different places would contribute to reduce the load. Besides, students as a team work were encouraged to participate in the annual Biotechnology Students' Exhibition and summarize their course work through submission of their activities and mainly by posters which become a major part of College of Sciences activities. General Biology online exams were first implemented at the Faculty of Science and Arts/JUST during my chair to Dept. of Biological Sciences.

I spent those years learning how to be a leader by respecting ideas, listening to the others, solving problems and conflicts then have my professional decision. By these concepts I implemented my skills to gear my team to success, which I see my own leadership philosophy.

## RESEARCH

### A. Major Interest

1. Isolation and characterization of antibiotic/metabolite-producing *Streptomyces* sp.
2. Genetic determinants of antibiotic and/or other metabolites-producing *Streptomyces* sp.
3. Enrichment of microorganisms from polluted sites to be used in biodegradation of contaminants.
4. Physiology of off-flavor compounds production by cyanobacteria and actinomycetes.
5. Water quality interm of fecal contamination, cyanotoxins and odor and taste problems.

### B. Ad Hoc Reviewer

1. *Journal of Applied Microbiology*
2. *Letters in Applied Microbiology*
3. *Aquaacture*
4. *Abhath Al-Yarmouk Journal*
5. *Mu'tah Lil-Buhuth wad-Dirasat*
6. *Jordan Journal of Applied Science*
7. *Jordan Journal of Biological Sciences*
8. *University of Sharjah Journal of Pure & Applied Sciences*
9. *Jordan Journal of Agricultural Sciences*
10. *Antonie van Leeuwenhoek International Journal of General & Molecular Microbiology*
11. *Turkish Journal of Biology*
12. *International Journal of Food Safety, Nutrition and Public Health (IJFSNPH)*
13. *Dirasat/Jordan*
14. *Journal of Basic Microbiology*
15. *Polish Journal of Environmental Studies*
16. *Journal of Bioremediation and Biodegradation*
17. *Journal of Bioprocess & Technology (BTEC)*
18. *Brazilain Archives of Biology and Technology*
19. *Applied & Environmental Soil Science. Special issue on Microbial Diversity-Sustaining Earth & Industry*
20. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*
21. *Folia Microbioloica*
22. *International Journal of life Science and Medical Research*
23. *The Arabian Journal for Science and Engineering*
24. *British Biotechnology Journal*
25. *British Microbiology Research Journal*

### C. Editor

**Guest Editor:** Applied & Environmental Soil Science/Special Issue on Microbial Diversity-Sustaining Earth and Industry. <http://www.hindawi.com/journals/aess/si/msei.html>

**Editor:** Dataset Papers in Microbiology. <http://www.datasets.com/journals/microbiology/editors/>

## D. Publications

### I-(Peer-Reviewed Papers)

#### 2017

92- **Saadoun**, I., Hanadi Ananbeh, Qotaiba Ababneh, and Ziad Jaradat. 2017. Comparative distribution of soil *Streptomyces* flora in different Jordanian habitats and their enzymatic and antibiotic activities. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 8(2): 1285-1297.

#### 2016

91- Jaradat, Z. W., Qutaiba O Ababneh, Shahd Saraireh, Thamer Abdullhalim, Waseem Al Mousa, Yaser Tarazi, Tareq M Osaili, Anas Al- Nabulsi , and I. **Saadoun**. 2016. Analysis of genetic heterogeneity of *Staphylococcus aureus* strains isolated from food and clinical samples from northern Jordan Using VNTR, toxin profiles and antibiograms. *Malaysian Journal of Microbiology*. 12(3): 254-264.

90-Al-Asheh S, H. Abu Qdais, A. Alquraishi, O. Husain, I. **Saadoun**. 2016. Physico-Chemical Characterization of an Artificial Pond to Control the Eutrophication Process: A Case Study. *International Advanced Research Journal in Science, Engineering and Technology*. 3(3): 27-40.

89- Mosa KA, **Saadoun** I., Kumar K, Helmy M and Dhankher OP. 2016. Potential Biotechnological Strategies for the Cleanup of Heavy Metals and Metalloids. *Front. Plant Sci*. 7:303. doi: 10.3389/fpls.2016.00303

#### 2015

88- **Saadoun**, I., Ban AL Joubori, and Racha Al Khoury. 2015. Testing of Production of Inhibitory Bioactive Compounds by Soil Streptomycetes as Preliminary Screening Programs in UAE for Anti-Cancer and Anti-Bacterial Drugs. *International Journal of Current Microbiology and Applied Sciences*. 4(3): 846-859.

#### 2014

87- **Saadoun**, I., L. Mhd Al Challah, F. M. Aldhuhouri, Aisha A. Hamoudi, and Ban AL Joubori. 2014. Antagonistic Effect of the Exotic Plant "*Prosopis juliflora*" Extract on Different Bacterial Pathogens.. *International Journal of Current Microbiology and Applied Sciences*. 3(7): 865-873.

86-**Saadoun**, I., A. Ahmad, A. Nasir, B. Al-Joubori and A. El-Keblawy. 2014. Impacts of Invasive and Native Prosopis Plants from Deserts of the UAE on Soil Microbiota and Seed Germination of Desert Plants. *International Journal of Life Science and Medical Research (LSMR)*. 4 (1): 1-8.

85-Khan, MA, M. R. Nicolls, B. Surguladze and I. **Saadoun**. 2014. Complement components as potential therapeutic targets for asthma treatment. *Respiratory Medicine*. 108(4): 543-549.

84- **Saadoun**, I., Z. Jaradat, I. Al Tayyar, Z. El Nasser, and Q. Ababneh. 2014. Airborne methicillin resistant *Staphylococcus aureus* (MRSA) in the indoor environment of King Abdullah University Hospital, Jordan.. Indoor and Built Environment. DOI:10.1177/14203 26X14526604

83- **Saadoun**, I., I. Al Tayyar, and Z. El Nasser. 2014. Antibiotic Susceptibility and Concentration of Airborne Coagulase Negative Staphylococci (CoNS) in the Intensive Care Units (ICU) of Different Hospitals in Northern Jordan. *University of Sebha Journal for Applied and Scientific Research*. 12(2):

#### 2013

82- **Saadoun**, I., and I. Al Tayyar. 2013. Evaluation of susceptibility of airborne Gram negative bacilli bacteria in operating theaters and intensive care units in North Jordan Hospitals, Jordan. *Sebha Medical Journal*. 12(2): 40-47.

81- **Saadoun**, I., I. Al Tayyar, Z. El Nasser, and Q. Ababneh. 2013. Frequency of *MecA* gene and susceptibility pattern in airborne methicillin resistant *Staphylococcus aureus* isolated from different hospitals in North of Jordan. *Sebha Medical Journal*. 12(2): 65-72.

80- **Saadoun**, I., K. Hamoudi, M. Kalander, B. Al-Joubori, and Z. Jaradat. 2013. Inhibitory bioactive metabolites produced by actinomycetes isolated from mangrove ecosystem of Khor Kalba' shores, UAE. *International Journal of Biotechnology and Food Science*. 1(2): 39-45.

79- **Saadoun**, I., A. Dawagreh, Z. Jaradat, and Q. Ababneh. 2013. Influence of culture conditions on pectinase production by *Streptomyces* sp. (strain J9). *International Journal of Life Science and Medical Research*. 3(4): 148-154.

## 2011

78- **Saadoun**, I. 2011. Selection of bacteria and plant seeds to grow on phenol to be used in remediation of phenol contaminated soils. *Australian J. of Basic and Applied Sciences*. **5**(12): 2218-2226.

77- Dastager, S. G., Wen-Jun Li, I. **Saadoun**, and M. Miransari. 2011. Editorial paper. Applied and Environmental Soil Sciences: Special Issue on Microbial Diversity – Sustaining Earth and Industry. Volume 2011.

76- **Saadoun**, I. S. Bataineh, Q. Ababneh, K. Hameed, K. Schrader, C. Cantrell, F. Dayan and D. Wedge. 2011. Evaluation of the toxicity of *Streptomyces aburaviensis* (R9) extract towards various agricultural pests. *Agricultural Sciences*. **2**(4): 491-497.

75- **Saadoun**, I. and M. Alawawdeh. 2011. Optimal production conditions, cultural and physiological characterization of an active-inhibitory compound(s) producing *Streptomyces* Bb<sub>36</sub> isolate against multiresistant bacterial pathogens. *Current Trends in Biotechnology and Pharmacy* **4**(5): 998-1003.

## 2010

74- **Saadoun**, I. and Z. Al-Ghazawi. 2010. Toxicity of diesel fuel towards plant seeds as reflected by seed germination outcomes, sprout length and fresh weight. *American-Eurasian Journal of Agriculture and Environmental Science* **8**(2): 167-172.

73- **Saadoun**, I. E. Batayneh, A. Alhandal and M. Hindieh. 2010. Physiochemical features of Wadi Al-Arab Dam (reservoir), Jordan. *Oceanological and Hydrobiological Studies*. Vol. XXXIX (4): 189-203.

## 2009

72- Ibrahim, N.I., A. Maraqa, K.M. Hameed, I. M. **Saadoun**, H. M. Maswadeh and T. Nakajima-Kambe. 2009. Polyester-polyurethane biodegradation by *Alternaria solani*, isolated from Northern Jordan. *Advances in Environmental Biology* **3**(2): 162-170.

71- Goussous, S.J., K.M. Hameed and I. **Saadoun**, 2009. Isolation and evaluation of indigenous fungal and bacterial isolates as potential bioagents against broomrape (*Orobancha cernua*) in Jordan. *Plant Pathology Journal* **8**: 98-105.

70- Tahtamouni, ME. W., K.M. Hameed and I. **Saadoun**. 2009. Biological control of white cottony stem rot (*Sclerotinia sclerotiorum* (Lib.) De Bary) by chitinolytic actinomycetes under laboratory and greenhouse conditions in Jordan. *Jordan Journal of Agricultural Sciences*. **5**(3): 306-313.

69- Jaradat, Z., Q. Ababneh, I. **Saadoun**, N. Samara and A. Rashdan. 2009. Isolation of *Cronobacter* spp. (formerly *Enterobacter sakazakii*) from infant food, herbs and environmental samples and the subsequent identification and confirmation of the isolates using biochemical, chromogenic assays, PCR and 16S rRNA sequencing". *BMC Microbiology* **9**: 225. doi:10.1186/1471-2180-9-225

68- **Saadoun**, I., R. Al-Omari, Z. Jaradat and Q. Ababneh. 2009. Influence of culture conditions of *Streptomyces* sp. (strain S<sub>242</sub>) on chitinase production. *Polish J. Microbiol.* **58**(4): 343-349.

67- **Saadoun**, I., F. Al-Momani, Q. Ababneh and S. Bonjar. 2009. Comparative UV-spectra of fermented cultural extract of antifungal-active *Streptomyces* isolates recovered from different ecological habitats. *Current Trends in Biotechnology and Pharmacy* **3**(2): 155-161.

## 2008

66- **Saadoun**, I., I. A. Al Tayyar and Z. Elnasser. 2008. Concentrations of airborne fungal contamination in the medical surgery operation theaters (OT) of different hospitals in northern Jordan. *Jordan Journal of Biological Sciences* **1**(4): 181-184.

65- Jaradat, Z., A. Dawagreh, Q. Ababneh and I. **Saadoun**. 2008. Influence of culture conditions on cellulase production by *Streptomyces* sp. (strain J2). *Jordan Journal of Biological Sciences* **1**(4): 141-146.

64- Bataineh, S.M., I. **Saadoun**, K. Hameed and Q. Ababneh. 2008. Screening for Soil Streptomycetes from North Jordan that can Produce Herbicidal Compounds. *Polish J. Microbiol.* **57**(4): 297-305.

63- **Saadoun**, I., E. Bataineh and A. Al-Handal. 2008. The primary production conditions of Wadi Al-Arab Dam (Reservoir), Jordan. *Jordan Journal of Biological Sciences* **1**(2): 67-72.

62- **Saadoun**, I., M. Mohammad, K. Hameed and M. Shawqfah. 2008. Microbial populations of fresh and old crude oil spill polluted soils at the Jordan-Iraq desert (the badia region). *Brazilian Journal of Microbiology* **39**: 453-456.

61- **Saadoun**, I., E. Bataineh and A. Al-Handal. 2008. Phytoplankton species composition and seasonal variation at Wadi Al-Arab Dam lake, Jordan. *Turkish Journal of Biology* **32**: 291-298.

60- **Saadoun**, I. and A. Muhana. 2008. Optimal production conditions, extraction, partial purification and characterization of inhibitory compound(s) produced by *Streptomyces* Ds-104 isolate against multi-drug resistant *Candida albicans*. *Current Trends in Biotechnology and Pharmacy* **2**(2): 402-420.

59- **Saadoun**, I., M. Alawawdeh, Z. Jaradat and Q. Ababneh. 2008. Growth of hydrocarbon-polluted soil *Streptomyces* spp. on diesel and their analysis for the presence of alkane hydroxylase gene (*alkB*) by PCR. *World Journal of Microbiology and Biotechnology* **24** (10): 2191-2198.

58- **Saadoun**, I., K. Hameed, F. Al-Momani and Q. Ababneh. 2008. Effect of three-*Orobanche* spp. extracts on some local phytopathogens, *Agrobacterium* and *Erwinia*. *Turkish Journal of Biology* **32**: 113-117.

57- **Saadoun**, I. and R. Gharaibeh. 2008. Usefulness of *strb1* and 16S rDNA-targeted PCR for detection of *Streptomyces* in environmental samples. *Polish Journal of Microbiology* **57** (1): 81-84.

56- **Saadoun**, I. and F. Al-Momani. 2008. Susceptibility of local *Agrobacterium tumefaciens* strains to streptomycetes isolates from Jordan soils. *Journal of Basic Microbiology* **48** (3): 213-216.

55- **Saadoun**, I., L. Wahiby, Q. Ababneh, Z. Jaradat, M. Massadeh and F. Al-Momani. 2008. Recovery of soil streptomycetes from arid habitats in Jordan and their potential to inhibit multi-drug resistant *Pseudomonas aeruginosa* pathogens. *World J. Microbiol. Biotech.* **24**: 157-162

## 2007

54- **Saadoun**, I., R. Rawashdeh, T. Dayeh, Q. Ababneh and A. Mahasneh. 2007. Isolation, characterization and screening for fiber hydrolytic enzymes-producing streptomycetes of Jordanian forest soils. *Biotechnology* **6**(1); 121-129.

## 2006

53- Al-Momani, F., S. Al-Bashir and I. **Saadoun**. 2006. Distribution of *Agrobacterium tumefaciens* biovars in Jordan and variation of virulence. *Plant Pathology Journal* **22**(4): 318-322.

52- **Saadoun**, I., S. Taye, A. Elbetieha and W. M. Owais. 2006. Ability of insecticidal formulations to support growth of bacteria and the absence of their mutagenic activity in the Ames Salmonella test. *J. Biological Sci.* **6**(5): 875-880.

51- Tahtamouni, ME. W., K.M. Hameed and I. **Saadoun**. 2006. Biological control of *Sclerotinia sclerotiorum* using indigenous chitinolytic actinomycetes in Jordan. *Plant Pathology Journal* **22**(2): 107-114.

50- Shahidi Bonjar, G.H., S. Zamanian, S. Aghighi, P. Rashid Farrokhi, M.J. Mahdavi and I. **Saadoun**. 2006. Antibacterial activity of Iranian *Streptomyces coralus* strain 63 against *Ralstonia solanacearum*. *J. Biological Sci.* **6**(1): 127-129.

## 2005

49- Shahrokhi, S., G.H. Shahidi Bonjar and I. **Saadoun**. 2005. Biological control of potato isolate of *Rhizoctonia solani* by *Streptomyces olivaceus* strain 115. *Biotechnology* **4** (2): 132-138, 2005.

48- Zamanian, S., G.H. Shahidi Bonjar and I. **Saadoun**. 2005. First report of antibacterial properties of a new strain of *Streptomyces plicatus* (Strain 101) against *Erwinia carotovora* subsp. *Carotovora* from Iran. *Biotechnology* **4** (2): 114-120.

47- Ziad Al-Ghazawi, I. **Saadoun** and A. Al-Shak'ah. 2005. Selection of bacteria and plant seeds to grow on diesel fuel to be used in remediation of diesel contaminated soils. *J. Basic Microbiol.* **45** (5): 251-256.

46- **Saadoun**, I. 2005. Production of 2-methylisborneol by *Streptomyces violaceusniger* and its transformation by selected species of *Pseudomonas*. *J. Basic Microbiol.* **45** (3): 236-242.

45- Rawashdeh, R., I. **Saadoun** and A. Mahasneh. 2005. Effect of cultural conditions on xylanase production by *Streptomyces sp.* (strain Ib 24D) and its potential to utilize tomato pomace. *African J. Biotechnol.* **4** (3): 251-255.

## 2004

44- Al-Momani, F., M. Obeidat, I. **Saadoun** and M.M. Meqdam. 2004. Serotyping of *Bacillus thuringiensis* isolates, their distribution in different Jordanian habitats and pathogenicity in *Drosophila melanogaster*. *World J. Microbiol. Biotech.* **20** (7): 749-753.

43- Aghighi, S., G.H. Shahidi Bonjar, R. Rawashdeh, S. Bataineh and I. **Saadoun**. 2004. First report of antifungal spectra of activity of Iranian actinomycetes strains against *Alternaria solani*, *Alternaria alternate*, *Fusarium solani*, *Phytophthora megasperma*, *Verticillium dahliae* and *Saccharomyces cerevisiae*. *Asian J. Plant Sci.* **3**(4): 463-471.

42- Aghighi, S., G.H. Shahidi Bonjar and I. **Saadoun**. 2004. First report of antifungal properties of a new strain of *Streptomyces plicatus* (strain 101) against four Iranian phytopathogenic *Verticillium dahliae*, a new horizon in biocontrol agents. *Biotechnology*. **3**(1): 90-97.

41- **Saadoun**, I. 2004. Recovery of *Pseudomonas* spp. from chronocillay fuel-oil polluted soils in Jordan and the study of their capability to degrade short chain alkanes. *World J. Microbiol. Biotech.* **20** (1): 43-46.

## 2003

40- Gharaibeh, R., I. **Saadoun**, and A. Mahasneh. 2003. Evaluation of combined 16s rDNA and *strb1* gene targeted PCR to identify and detect streptomycin-producing *Streptomyces*. *J. Basic Microbiol.* **43** (4): 301-311.

39- **Saadoun**, I., L. Nimri and J. Amer. 2003. Diagnosis of *Mycobacterium tuberculosis* in cases of pulmonary infections from Jordanian hospitals. *J. Basic Microbiol.* **43** (2): 131-136.

38- Gharaibeh, R., I. **Saadoun** and A. Mahasneh. 2003. Genotypic and phenotypic characteristics of antibiotic-producing soil *Streptomyces* investigated by RAPD-PCR. *J. Basic Microbiol.* **43** (1): 18-27.

37- **Saadoun**, I. and R. Gharaibeh. 2003. The *Streptomyces* flora of Badia region of Jordan and its' potential as a source of antibiotics active against antibiotic-resistant bacteria. *J. Arid Environments* **53/3** : 365-371.

## 2002

36- **Saadoun**, I. 2002. Isolation and characterization of bacteria from crude petroleum oil contaminated soil and their potential to degrade diesel. *J. Basic Microbiol.* **42** (6): 420-428.

35- **Saadoun**, I. and R. Gharaibeh. 2002. The *Streptomyces* flora of Jordan and its' potential as a source of antibiotics active against antibiotic-resistant Gram-negative bacteria. *World J. Microbiol. Biotech.* **18**: 465-470.



34- Al-Momani, F., I. **Saadoun** and M. Obeidat. 2002. Molecular characterization of local *Bacillus thuringiensis* strains recovered from Northern Jordan. *J. Basic Microbiology*. **42** (3): 156-161.

## 2001

33- Al-Handal, A. and I. **Saadoun**. 2001. Phytoplankton composition and physical-chemical features of a hypertrophic reservoir in North Jordan: King Talal Reservoir. *Rev. Idriobiol.* **40** (2-3): 305-320.

32- Hameed, K. M., I. **Saadoun** and Z. Al-Shyab. 2001. Potential biological control of *Orobanche* by fungi isolated from diseased specimens in Jordan. *Plant Pathology Journal* **17**(4): 257-263.

31- **Saadoun**, I., F. Al-Momani, M. Obeidat, M. Meqdam and A. Elbetieha. 2001. Assessment of toxic potential of local Jordanian *Bacillus thuringiensis* strains on *Drosophila melanogaster* and *Culex sp.* (Diptera). *J. Applied Microbiology* **90** (6): 866-872.

30- **Saadoun**, I., K. K., Schrader and W.T Blevins. 2001. Identification of geosmin as a volatile metabolite of *Anabaena sp.* *J. Basic Microbiology*. **41** (1): 51-55.

29- **Saadoun**, I., K. K., Schrader and W.T Blevins. 2001. Environmental and nutritional factors affecting geosmin synthesis by *Anabaena sp.* *Water Research*. **35/5**: 1209-1218.

## 2000

28- Obeidat, M., F. Al-Momani and I. **Saadoun**. 2000. Diversity of *Bacillus thuringiensis* in different habitats of Northern Jordan. *J. Basic Microbiology*. **40** (5-6): 385-388.

27- **Saadoun**, I., F. Al-Momani. 2000. Activity of North Jordan soil streptomycetes against *Candida albicans*. *World J. Microbiol. Biotech.* **16** 139-142.

26- **Saadoun**, I., K. Hameed, F. Al-Momani, H. Malkawi, M. Meqdam and M.J. Mohammad. 2000. Characterization and analysis of antifungal activity of soil streptomycetes isolated from North Jordan. *Egyptian Journal of Microbiology* **35**: 463-471.

## 1999

25- **Saadoun**, I., F. Al-Momani, H. Malkawi and M.J. Mohammad. 1999 Isolation, identification and analysis of antibacterial activity of soil streptomycetes isolates from North Jordan. *Microbios* **100**: 41-46.

24- **Saadoun**, I., S.H. Gharaibeh, W.Y. Abu-El-Sha'r, F. Al-Momani and M. Meqdam, S.H. Gharaibeh and W.Y. Abu-El-Sha'r. 1999. Entfernung von Krankheitserregern aus Trinkwasser mit Hilfe behandelte Ruckstaende aus der Olivenpressung. *Wasser, Luft und Boden* 4: 39-41.

23- **Saadoun**, I. and K.M. Hameed. 1999. Antibacterial activity of *Orobanche cernua* extract. *J. Basic Microbiology* **39** (5-6): 377-380.

22- **Saadoun**, I., K.M. Hameed and A. Moussauui, A. 1999. Characterization and analysis of antibiotic activity of some aquatic actinomycetes. *Microbios* **99**: 173-179.

21- **Saadoun**, I., M.Ali, Al-Akhras, and J. Abu-Ashour. 1999. Bacterial degradation of hydrocarbons as evidenced by respirometric analysis. *Microbios* **100**: 19-25.

20- Elbetieha, A., W.M. Owais, I. **Saadoun**, I. and E. Hussein. 1999. Effect of glutathione, L-cystein, and L-djenkolic acid in the synthesis and mutagenicity of azide metabolite in *Bacillus subtilis* ATCC 6633 strain. *New Microbiologica* **22** (4): 315-322.

19- Malkawi, H.I., F. Al-Momani, M.M. Meqdam and I. **Saadoun**. 1999. Use of RAPD-PCR fingerprinting to detect diversity of soil *Bacillus thuringiensis* isolates. *New Microbiologica*. 22(3): 241-247.

18- **Saadoun**, I., F. Al-Momani and A. Elbetieha. 1999. Genetic Determinants of active antibiotic-producing soil streptomycetes. *New Microbiologica* 22: 233-239.

17- Al-Momani, F., I. **Saadoun**, H. Malkawi. 1999. *Streptomyces* species from Jordan soils with in vitro inhibitory activity against *Agrobacterium tumefaciens* Ab 136 pti 854. *African Plant Protection* 5 (2): 129-130.

16- Malkawi, H.I., I. **Saadoun**, F. Al-Momani and M.M. Meqdam. 1999. Use of RAPD-PCR fingerprinting to detect diversity of soil *Streptomyces* isolates. *New Microbiologica* 22: 53-58.

## 1998

15- **Saadoun**, I. and F. Al-Momani. 1998. Frequency and dominance of grey series streptomycetes in Jordan soils. *Actinomycetes* 9 (3): 61-65.

14- **Saadoun**, I., M.J. Mohammad, H.I. Malkawi, F. Al-Momani and M. Meqdam. 1998. Diversity of soil streptomycetes in Northern Jordan. *Actinomycetes* 9 (3): 52-60.

13- Al-Momani, F., M.M.M. Meqdam, I. **Saadoun**, S.H. Gharaibeh and W.Y. Abu-El-Sha'r. 1998. Use of processed solid residue of olive oil mill products to adsorb *Escherichia coli* and bacteriophage T<sub>3</sub> from drinking water. *Cytobios* 95: 37-41.

12- **Saadoun**, I., A. Elbetieha and W.T. Blevins. 1998. Mutagenesis by ethidium bromide (EB) and N-methyl-N<sup>2</sup>-Nitro-N-Nitrosoguanidine (NTG) on off-flavor compound-producing strains of *Streptomyces*. *J. Biosciences* 23: 595-600.

11- **Saadoun**, I., F. Al-Momani and A. Elbetieha. 1998. Evaluation of different methods of plasmid extraction from antibiotic-producing strains of *Streptomyces*. *Actinomycetes* 9 (3): 46-51.

10- **Saadoun**, I. and F. Al-Meqdadi. 1998. Degradation of geosmin like compounds by selected species of Gram-positive bacteria. *Lett. Appl. Microbiol.* 26: 98-100.

## 1997

9- **Saadoun**, I. and W.T. Blevins. 1997. Detection of giant linear plasmids in off-flavor compound-producing strains of *Streptomyces* by PFGE. *Actinomycetes* 8(3): 58-65.

8- **Saadoun**, I. and F. Al-Momani. 1997b. Studies on soil streptomycetes from Jordan. *Actinomycetes* 8(3): 42-48.

7- **Saadoun**, I., K. K., Schrader and W.T Blevins. 1997. Identification of 2-methylisoborneol (MIB) and geosmin as volatile metabolites of *Streptomyces violaceusniger*. *Actinomycetes* 8(3): 37-41.

6- **Saadoun**, I. and F. Al- Momani. 1997a. Streptomycetes from Jordan soils active against *Agrobacterium tumefaciens*. *Actinomycetes* 8:29-36.

5- **Saadoun**, I. 1997. Degradation of complex mineral oil and other hydrocarbons by *Rhodococcus erythropolis*. *Actinomycetes* 8(3): 53-57.

## 1996

4- **Saadoun**, I. and F. Al-Momani. 1996. Bacterial and *Streptomyces* flora of some Jordan Valley soils. *Actinomycetes*, 7(3):95-99.

## 1995

3- Blevins, W.T., K.K. Schrader, and I. Saadoun. 1995. Comparative physiology of geosmin production by *Streptomyces halstedii* and *Anabaena* sp. *Wat. Sci. Tech.* 31 (11):127-133.

## 1991

2- Abussaud, M., and I. Saadoun. 1991. *Streptomyces* flora of some Jordan Valley soils, characteristics and seasonal distribution. *Dirasat* 18B (3):66-75.

## 1988

1- Abussaud, M., and I. Saadoun. 1988. Isolation, characterization and taxonomy of *Streptomyces* spp. isolated from Jordanian soils and antagonistic to *Agrobacterium tumefaciens*. *Egyptian Journal of Microbiology* 23(3):597-609.

## II-Papers in Reviewed Proceedings

1-Saadoun, I., K. Hameed and F. Al-Momani. 2000. Effect of *Orobanche cernua* Extracts on the *Agrobacterium* Crown Gall Pathogen. In: Americanos, P.G., B.E. Abu-Irmaileh and A.R. Saghir (eds). Improved weed management in the Near East (Proc. 1<sup>st</sup> N.E. conference on improved weed management, Cairo, Egypt), P. 214-224.

2-Bataineh, S., I. Saadoun and K. Hameed. Screening for potential phytotoxin-producing streptomycetes isolated from soils in Jordan. Proceedings of the 4th World Congress on Allelopathy, eds JDI Harper, M An, H Wu and JH Kent, Charles Sturt University, Wagga Wagga, NSW, Australia. August 2005. International Allelopathy Society.

3-Hameed, K.M., W. Sharadqah, I. Saadoun and K.I. Eriefeg. 2005. Bioconversion of the olive oil mills by-product (Jift) by mushroom fungi in Jordan. In: (Proc. of the 5<sup>th</sup> International Conference on Mushroom Biology and Mushroom Products, Shanghai, 8-12 April, 2005, China). *Acta Edulis Fungi* Vol. 12 supplement 2005. pp. 264-276.

4-Saadoun, I., J. Schijven, M. Shawaqfah, Z. Al-Ghazawi, J. AL-Rashdan, W. Blandford, T. Boving, Q. Ababneh and H. van den Berg. 2008. Removal of Fecal Indicator Coliforms and Bacteriophages by Riverbank Filtration (RBF) in Jordan. In: Al-Mattarneh, H., Mohd Sidek, L and Yusoff, M.Z. (eds). Innovations in Water Resources and Environmental Engineering. Proceedings of the International Conference on Construction and Building Technology (ICCBT). Kuala Lumpur, 16-20 June, 2008. Malaysia, pp. 191-198.

5- W. Blandford, Thomas Boving, Z. Al-Ghazawi, M. Shawaqfah, J. Al-Rashdan, I. Saadoun, Jack Schijven, and Qotaiba Ababneh. 2010. River bank filtration for protection of Jordanian surface and groundwater. In: Richard N., Palmer Ph.D., and P.E., D. WRE (eds). World Environmental and Water Resources Congress 2010: Challenges of Change. Proceedings of the World Environmental and Water Resources Congress 2010. Providence, Rhode Island, May 16-20, 2010. pp. 776-781. ASCE Conf. Proc. doi:10.1061/41114(371)86

## III-Chapter in Scientific Books

1-Saadoun, I. and Z. Al-Ghazawi. 2005. Bioremediation of petroleum contamination. In: *Bioremediation of Aquatic and Terrestrial Ecosystems*, R. Nagabhushanam and M. Fingerman (eds.), Oxford & IBH Publishing Co. Pvt. Ltd. pp. 173-212.

2-Saadoun, I., F. Al-Momani and A. Al-Kofahi. 2008. Diversity of soil bacteria at the Badia region: studies of the genera *Bacillus*, *Pseudomonas* and *Streptomyces*. In: *Jordan's Arid Badia: Deepening our Understanding*, Dutton, R. & Shahbaz, M. (eds.), Smith Gordon & Co. UK, pp. 191-211.

3-Saadoun, I. and K.M. Hameed. 2008. Biotechnological potential of actinomycetes in Jordan for production of agrobioproducts. In: *Role of Biocontrol Agents in Disease Management in Sustainable Agriculture*, P. Ponmurugan and M.A. Deepa (eds.), Research India Publications, New Delhi, pp. 431- 439.

4-Saadoun, I. 2015. Impact of Oil Spills on Marine Life. In: *Emerging Pollutants in the Environment-Current and Further Implications*, Marcelo L. Laramendy and Sonia Soloneski (eds.), InTech-Open Science-Open Minds Publishing, Rijeka, Croatia. pp. 77-104

## IV- News Papers and Local Manuscripts

1. اسماعيل سعدون . الطحالب وتلوث المياه . 2009 . مجلة شبكة جامعة عجمان للعلوم والتكنولوجيا . المجلد الرابع عشر . العدد الثاني .
2. اسماعيل سعدون . الأغذية المعدلة وراثيا تلحق ضررا بالمعتقدات الدينية . 2015 . مجلة الثقافة الإجتماعية والأمنية (999) . عدد 538 السنة 44 , أكتوبر 2015 :28-26 .

## V- Manuals

- 1- Biocontrol Laboratory Manual. 2010. [http://btecgif.iugaza.edu.ps/LabManual/BioControl\\_Lab\\_Gaza.pdf](http://btecgif.iugaza.edu.ps/LabManual/BioControl_Lab_Gaza.pdf)
- 2- Bioremediation Laboratory Manual. 2010. [http://btecgif.iugaza.edu.ps/LabManual/Bioremediation\\_Lab\\_Gaza.pdf](http://btecgif.iugaza.edu.ps/LabManual/Bioremediation_Lab_Gaza.pdf)
- 3- Environmental Biotechnology Laboratory Manual. 2010. [http://btecgif.iugaza.edu.ps/LabManual/EnvBiot\\_Lab\\_Do\\_Gaza.pdf](http://btecgif.iugaza.edu.ps/LabManual/EnvBiot_Lab_Do_Gaza.pdf)
- 4- Industrial Biotechnology Laboratory Manual. 2010. [http://btecgif.iugaza.edu.ps/LabManual/R.%20Ind\\_Biot\\_Manual\\_Gaza.pdf](http://btecgif.iugaza.edu.ps/LabManual/R.%20Ind_Biot_Manual_Gaza.pdf)
- 5- Practical Fungi Biotechnology Laboratory Work Manual. 2010.

## VI- Manuscripts in Preparation or Submitted for Publication

No	Title	Journal
1	Optimal Production Conditions, Partial Purification and Characterization of Inhibitory Compound(s) Produced by <i>Streptomyces</i> N-404 Strain Against Multi-Drug Resistant Pathogens	
2	Phenotypic and molecular characterization and rapid evaluation of oil-degrading native bacteria isolated from different habitats in UAE	

## VII- Abstracts at Scientific Meetings

### 1-Presented as First Author

**1-Saadoun, I., K.K. Schrader, and W.T. Blevins** Genetic determinants of earthy off-flavor production by aquatic species of *Streptomyces* and *Lyngbya*. Abstracts of the 93rd General Meeting of the American Society for Microbiology, p.309, May 16-20, **1993**, Atlanta, GA.

**2-Saadoun, I., K.K. Schrader, W.T. Crutchfield, and W.T. Blevins.** Effects of light intensity on production of biomass, chlorophyll *a.*, and geosmin by *Anabaena* sp. Abstracts of the 94th General Meeting of the American Society for Microbiology, p.168, May 23-27, **1994**, Las Vegas, NV.

**3-Saadoun, I., W.T. Crutchfield, and W.T. Blevins.** Detection of a large plasmid in a geosmin-producing strain of *Streptomyces halstedii* by the PFGE technique. Proceedings of the Annual Meeting of the Southeastern Branch of the American Society for Microbiology, Abst. #136, November 3-5, **1994**, Athens, GA.

**4-Saadoun, I., F. Al-Momani, M.M. Meqdam, S. Gharaibeh and W. Abu El-Sha'r.** The use of processed solid residue of olive mill products to adsorb *Escherichia coli* and Bacteriophage T<sub>3</sub> from drinking water. Symposium on Present and Prospectives of Biotechnology in Jordan. Al al-Bayt University, April, 7-8, **1997**, Al-Mafraq, Jordan.

**5-Saadoun, I., F. Al-Momani, H. Malkawi, M. Meqdam and M. Mohammed.** Soil *Streptomyces* flora in the North of Jordan. The 8th Arab Conference of Biological Sciences and the 4th Jordanian Conference of Biological Sciences. Nov. 8-11, **1997**. Amman-Jordan.

**6-Saadoun, I. and F. Al-Momani.** Saadoun, I. and F. Al Momani. Searching for new bioactive compounds produced by Jordan soil streptomycetes. Abstracts of the First Annual Scientific Day of The Faculty of Science & Arts. May 18th, **1998**, JUST, Irbid-Jordan.

**7-Saadoun, I., K. Hameed, F. Al-Momani, H. Malkawi, and M. Mohammed.** 1998. Characterization and analysis of antifungal activity of soil streptomycetes isolated from North Jordan. Abstracts of the 98th General Meeting of the American Society for Microbiology, p.370, May 17-21, **1998**, Atlanta, GA.

**8-Saadoun, I.** Physiology of inhibitory bioactive compounds production by *Streptomyces* strain N-404. Abstracts of the 2<sup>nd</sup> Annual Scientific Day of The Faculty of Science & Arts. P. 22, May 24, **1999**, JUST, Irbid-Jordan.

**9-Saadoun, I. and F. Al-Momani.** Bioactivity of Jordan soil streptomycetes against local crown gall pathogen (*Agrobacterium tumefaciens*) isolated from different plant pathogens. Abstracts of the 99th General Meeting of the American Society for Microbiology, p.370, May 30- June 3, **1999**, Chicago, IL.

**10-Saadoun, Hameed, K., and Al-Momani, F.** Effect of *Orobanche cernua* extracts on the *Agrobacterium* crown gall pathogen. First Near East Conference on Improved Weed Management. Cairo, 5-8 February, **2000**.

**11-Saadoun, I., F. Al-Momani, M. Obeidat, M. Meqdam, A. Elbetiha.** Assessment of toxic potential of local Jordanian *Bacillus thuringiensis* strains on *Drosophila melanogaster* and *Culex* sp. (Diptera). Abstracts of the 3<sup>rd</sup> Annual Scientific Day of The Faculty of Science & Arts. P. 23, May 23, **2000**, JUST, Irbid-Jordan.

**12-Saadoun, I., Hameed, K. M., Al-Momani, F. and Foy, C.L.** Effect of three- *Orobanche* spp. Extracts on some local phytopathogens, *Agrobacterium* and *Erwinia*. 7<sup>th</sup> International Parasitic Weed Sumposium. Nantes/France, 5-8 June, **2001**.

**13-Saadoun, I.** Department of Biotechnology and Genetic Engineering at Philadelphia University. Curriculum, goals and career opportunities. The Second Arab Conference and Exhibition on Biotechnology and Genetic Engineering. University of Bahrian/Manama-Kingdom of Bahrain, 15-17 April, **2002**.

**14-Saadoun, I.** Degradation of 2-Methylisoboneol (MIB)-like compounds by selected species of *Pseudomonas*. 6<sup>th</sup> IWA Symposium on Off-Flavours in the Aquatic Environment. Barcelona/Spain, 7-10 October, **2002**.

**15-Saadoun, I.,** Sereen Bataineh and Khalid Hameed. Screening for bioherbicide-producing streptomycetes isolated from soils in Jordan. 4<sup>th</sup> International Weed Science Congress. Durban/South Africa, 19-24 June, **2004**.

**16-Saadoun, I.** Objectionable odour associated with algal bloom at Wadi Al-Arab Dam (Reservoir), Jordan. 4<sup>th</sup> World Water Congress. Marrakech/Morocco 19-24 Sept., **2004**.

**17-Saadoun, I,** Rawashdeh, R. and Mahasneh, A. Genotypic and phenotypic characteristics of fiber hydrolytic enzyme producing-streptomycetes isolated from forest soils in Jordan. Abstracts of the 105<sup>th</sup> General Meeting of the American Society for Microbiology, Abstract No. N-220, P. 416-417, June 5-9, **2005**, Atlanta, GA.

**18-Saadoun, I.** and Al-Wahaibi, L. Susceptibility of multiresistant *Pseudomonas aeruginosa* pathogens to bioactive compound-producing soil streptomycetes. 7<sup>th</sup> European Congress of Chemotherapy and Infection; *J. Chemotherapy*, Abstract Book 17(3): Abstract No. 218, pp. 94, October 19-22, **2005**, Florence, Italy.

**19-Saadoun, I** and A. Muhana. Susceptibility of multiresistant *Candida albicans* pathogens to bioactive compound-producing soil streptomycetes. Optimal production conditions. Abstracts of the 106<sup>th</sup> General Meeting of the American Society for Microbiology, Abstract No. O-032, P. 104, May 21-25, **2006**, Orlando, FL.

**20-Saadoun, I.** and A. Muhana. Optimal production conditions of inhibitory compound(s) produced by *Streptomyces* Ds-104 isolate against multi-drug resistant *Candida albicans*. Abstracts of the 10<sup>th</sup> Annual Scientific Day of the Faculty of Science & Arts. P. 6, May 9-10, **2007**, JUST, Irbid-Jordan.

**21-Saadoun, I.,** R. Al-Omari, Z. Jaradat and Q. Ababneh. Influence of culture conditions of *Streptomyces* sp. (Strain S<sub>242</sub>) on chitinase production. II International Conference on Environmental, Industrial and Applied Microbiology. Abstract No. 407, P. 557, Nov. 28--Dec. 1, **2007**, Seville, Spain.

**22-Saadoun, I.** and M. Al-Muslih. Natural living resources and their contribution to development of biotechnology in sharjah. The Fifth Scientific Research Forum. College of Research and Higher Education. University of Sharjah, April 29<sup>th</sup>, **2009**, Sharjah, UAE.

**23- Saadoun, I.,** M. Al-Moslih and H. Al-Othman. Interest of female high school students in Sharjah Education District in College of Sciences majors/UOS. Sharjah Science Festival and Conference. Abstract No. SES-25, P. 58-59, April 7-8, 2010, University of Sharjah, Sharjah, UAE.

**24- Saadoun, I.,** R. Al-Khoury, and B. Al-Jubouri. Preliminary Screening Programs in UAE for Anti-Cancer and Anti-Bacterial Bioactive Compounds Produced by Soil Streptomycetes. 2<sup>nd</sup> International Conference of Engineering Sciences for Biology and Medicine (ESBM 2015), Monastir, Tunisia, May 1<sup>st</sup> to 3<sup>rd</sup> May 2015.

**25- Saadoun, I.** Socio-Economic Impacts of Marine Oil spills on Arabian Gulf Populations. 3<sup>rd</sup> International Conference of "Global Warming: Food Security", Ras Al Khaima, UAE, 5<sup>th</sup> to 7<sup>th</sup> May 2015.

**26- Saadoun, I** and Kareem A. Musa. Awareness of Higher Education Institutes' Students (University of Sharjah, UAE) about Global Warming and Climate Change. 4<sup>th</sup> International Conference of "Global Warming: Ecosystem Productivity", Ras Al Khaima, UAE, 3<sup>rd</sup> to 5<sup>th</sup> April 2017.

## 2-Presented as Co-author

1-Blevins, W.T., W.T. Crutchfield, K.K. Schrader, and I. **Saadoun**. Species diversification of a microbial consortium during biodegradation of a complex oil. Abstracts of the 93<sup>rd</sup> General Meeting of the American Society for Microbiology, P. 361, May 16-20, **1993**, Atlanta, GA.

2-Schrader, K.K., I. **Saadoun**, W.T Crutchfield, and W.T. Blevins, Factors affecting geosmin production by *Streptomyces halstedii* and *Anabaena* sp. Proceedings of the Annual Meeting of the Southeastern Branch of the American Society for Microbiology, P.44, November, 4-6, **1993**. Clearwater Beach, FL.

3-Gharaibeh, R. and I. **Saadoun**. Genetic diversity among antibiotic-producing soil Streptomyces investigated by RAPD-PCR. Abstracts of the 4<sup>th</sup> Annual Scientific Day of the Faculty of Science & Arts. P. 31, May 24, **2001**, JUST, Irbid-Jordan.

4-Bataineh, S., I. **Saadoun** and K. Hameed. Screening for potential phytotoxin-producing streptomycetes isolated from soils in Jordan. Proceedings of the 4<sup>th</sup> World Congress on Allelopathy, eds JDI Harper, M An, H Wu and JH Kent, Charles Sturt University, Wagga Wagga, NSW, Australia. August 2005. International Allelopathy Society.

5-Jaradat, Z. W., A. Dawagreh and I. **Saadoun**. Cellulolytic and pectinolytic soil streptomycetes and their potential to degrade different fruit pomaces. Abstracts of the 106<sup>th</sup> General Meeting of the American Society for Microbiology, Abstract No. O-026, P. 51, May 21-25, **2006**, Orlando, FL.

6-Jaradat, Z. W., N. A. Samara, Q. Ababneh, A. M. Rashdan and I. **Saadoun**. Isolation of *Enterobacter sakazakii* from a wide range of foods, infant formula, and environmental samples and the identification of the major antigenic proteins using rabbit antiserum made against heat-treated whole pathogen. Abstracts of the 107<sup>th</sup> General Meeting of the American Society for Microbiology, Abstract No. P099, P. 206, May 21-25, **2007**, Toronto, Canada.

**E- Grant/Proposals**  
**I- Principal Investigator**

No.	Title	Source of Funding (Grant No.)			Year	Budget JD (\$)
		JUST	HCST	UoS/Others		
1	Taxonomic diversity of actinomycetes from terrestrial environments in Jordan	+(24/96)			1996-1997	3300 (4225)
2	Genetic determinants of antibiotic producing <i>Streptomyces</i> of Jordan soils	+(12/98)			1998-1999	4600 (6570)
3	Searching for a new bioactive compounds produced by Jordan soil streptomycets.		+(53/98)		1998	3840 (5408)
4	<i>Bacillus thuringiensis</i> strains isolated from northern Jordan and their insecticidal activity	+(31/99)			1998-1999	3500 (4930)
5	Mutagenic activity of four insecticides commonly used in Jordan and their effects on fertility	+(76/99)			1999-2000	2550 (3590)
6	Isolation and characterization of microorganisms adapted to petroleum oil polluted soils in Jordan	+(91/99)			1999-2000	2700 (3800)
7	Diversity of soil microflora in the Badia Region		+(182/99)		1999-2001	8860 (11630)
8	Diagnostic use of PCR for detection of <i>Pneumocystis carinii</i> and <i>Mycobacterium tuberculosis</i> in cases of pulmonary infections	+(229/99)			1999-2001	7000 (9860)
9	Use of 16S rDNA in molecular identification of antibiotic-producing soil <i>Streptomyces</i> strains isolated form different habitats in Jordan.	+(115/00)			1999-2001	2600 (3660)
10	Extraction and purification of antipceded new antibiotic(s) produced by local <i>Streptomyces</i> strain(N-404) in preparation for patency		+(189/00)		2000-2001	6000 (8450)
11	Study of green algae and cyanobacteria that cause change in taste, odor and contamination of drinking water.		+(187/00)		2000-2001	10000 (14000)
12	Ecology, distribution and primary production of phytoplankton in Al-Arab Dam Reservoir	+(44/01)			2002-2003	2150 (3028)
13	Extraction and purification of anticipated new antibiotic(s) produced by local <i>Streptomyces</i> strain(Bb36,AQ10 and Z11) in preparation for patency			ISESCO (42/02)	2002-2003	3980 (5600)
14	Conventional and molecular characterization of fiber-hydrolytic enzymes-producing streptomycetes isolated from forest soils and their potential to degrade agricultural wastes	+(65/02)			2002-2003	1600 (2253)
15	Screening for bioherbicide-producing streptomycetes isolated from soils in Jordan	+(135/03)			2002-2003	2000 (2820)
16	Searching for Antibacterial Inhibitory Bioactive Compound(s) Produced by Soil Streptomycetes. Optimal Production Conditions, Extraction, Purification and Characterization.	+(166/04)			2005-2006	1200 (1690)
17	Cellulolytic and Pectinolytic Soil Streptomycetes and their Potential to Degrade Different Fruit Pomaces	+(167/04)			2005-2006	1200 (1690)
18	Searching for Antifungal Inhibitory Bioactive Compound(s) Produced by Soil Streptomycetes. Optimal Production Conditions, Extraction, Purification and Characterization.	+(168/04)			2005-2006	1200 (1690)

19	Screening for Chitinolytic Streptomycetes Isolated from Jordanian Soils: Characterization, Purification and Optimal Production Conditions.	+(4/05)			2005-2006	1700 (2395)
20	Isolation and identification of airborne medical microorganisms in operating theaters and intensive care units in hospitals, Irbid-Jordan	+(37/05)			2005-2006	2000 (2820)
21	Enzymatic, Antibiotic and Degradation Activities of Hydrocarbon –Polluted Soil <i>Streptomyces</i>	+(123/05)			2005-2006	1750 (2465)
22	Molecular Sureveillance of Enteroviruses in Al-Zarqa River, Jordan	+(58/08)			2008-2009	7000 (9860)
23	Searching of inhibitory bioactive compounds produced by marine streptomycetes isolated from mangrove rhizosphere soil from Khor Kalba' shores			UoS/Ref. G.R.C./S.R. 84	2011-2012	5000 AED (1360 \$)
24	Studies on the antibacterial effect of plant materials and their role as antioxidant and fibroblast growth stimulators			UoS/Ref. G.R.C./S.R. 338	2012-2013	5000 AED (1360 \$)
25	Cultural and Molecular Characterization of Mesophilic Streptomycin-Producing Isolates Recovered from Sand Dunes Soil			UoS/Ref. G.R.C./S.R. 221	2012-2013	2000 AED (545 \$)
26	Isolation of Polyhydroxyalkanoate (PHA) Producing Bacteria			UoS/Ref. G.R.C./S.R. 157	2012-2013	3000 AED (815 \$)
27	Isolation and Characterization of Hydrocarbon Degrading Bacteria from Oil-Spilled Seawater			UoS/Ref. G.R.C./S.R. 495	2013-2014	2000 AED (545 \$)
28	Inhibitory bioactive compounds from leaves of desert plants and their effects on drug multi-resistant bacterial pathogens			UoS/Ref. G.R.C./S.R. 102	2013-2014	1000 AED (368 \$)
29	Susceptibility of eukaryotic microorganisms (Yeast and Candida) to inhibitory bioactive compounds produced by soil streptomycetes			UoS/Ref. S.R./15 on 11/1/15	2014-2015	2000 AED
30	Inhibitory bioactive compounds produced by soil streptomycetes and their activity against Gram positive and negative bacteria			UoS/Ref. S.R./14 on 11/1/15	2014-2015	2000 AED
31	Amylolytic and proteolytic enzymes produced by soil streptomycetes			UoS/Ref. S.R./13 on 11/1/15	2014-2015	2000 AED
32	Cultural and Molecular Characterization of Potentially Novel Soil Streptomycetes			UoS/Ref. S.R./38 on 5/3/15	2014-2015	2000 AED
33	Susceptibility of Multi-drug Resistant Pathogens to Inhibitory Bioactive Compounds Produced by Potentially Novel Soil Streptomycetes			UoS/Ref. S.R./39 on 5/3/15	2014-2015	2000 AED
34	Antibacterial Activity of some Acid Catalyzed Schiff Bases			UoS/Ref. VCRG//R. 410/2015	2015-2016	5000 AED (1360 \$)
35	Morphological and Biochemical identification of indigenous Biotechnological microorganisms isolated from UAE's terrestrial habitats			UoS/Ref. VCRG//R. 197/2016	2015-2016	5000 AED (1360 \$)
36	Phylogenetic Identification of Terrestrial Streptomycetes from Cultivated Soils in the UAE			UoS/Ref. VCRG//R. 198/2016	2015-2016	4500 AED (1223 \$)
37	Isolation and Characterization of Hydrocarbon Degrading Bacteria from Crude Oil wells and Water Environments Contaminated with Hydrocarbon Compounds			UoS/Ref. VCRG//R. 1009/2016	2016-2017	5000 AED (1360 \$)



\***JUST**: Jordan University of Science and Technology; **HCST**: Higher Council for Science and Technology; **ISESCO**: Islamic Organization for Education, Culture and Science; **UoS**: University of Sharjah

## II- Associated Investigator

No.	Title	Source of Funding (Grant No.)			Year	Budget JD (\$)
		JUST	HCST	UoS/Others		
1	Distribution and diversity of the genus <i>Agrobacterium</i> in the north of Jordan	+(56/96)			1996-1997	2200 (3100)
2	Diversity of microorganisms in soils of Jordan		+		1996-2000	46000 (64790)
3	Changes In the microbial biodiversity of soils receiving application of olive mill wastewater and solid by-products	+(10/97)			1997-1998	1500 (2100)
4	Utilization of the by-products of olive oil milling industry of mushroom cultivation	+(11/97)			1998-1999	3500 (4930)
5	In Vitro study of the activity of aqueous extracts of <i>Alium sativum</i> and <i>Alium cefa</i> on certain microbes	+(13/97)			1997-1998	4000 (5630)
6	Biodegradation of plastics by fungi	+(57/97)			1997-1998	2500 (3520)
7	Biological degradation of plastic by microorganisms isolated from Jordanian habitats	+(90/97)			1999-2000	6300 (8870)
8	Lignin biodegradation during the process of biological conversion of olive pulp (Jift)	+(107/97)			1999-2000	7000 (9860)
9	Isolation and characterization of genus <i>Agrobacterium</i> containing genetic material that could be used in biotechnology		+(188/00)		2000-2001	11000 (15493)
10	Virulence characterization of <i>Enterobacter sakazakii</i> , an infant formula pathogen	+(1039/05)			2005-2006	3000 (4225)
11	Evaluation of riverbank filtration for protection of Jordanian surface and ground water resources (SfP-981454)			NATO	2005-2008	281,000 EUR
12	Biological Control of the parasitic weed plant ( <i>Orobanche</i> )			Shoman Foundation	2006-2008	11,500 (16200)
13	Quality Improvement Fund for Palestinian Tertiary Education. Quality Improvement of an Undergraduate Biotechnology Program			World Bank	2007-2009	346,300 \$
14	Inhibition of Biogas Production from Sewage Sludge Co-digested with Date Palm ( <i>Phoenix dactylifera L.</i> ) Seeds and Antibacterial and Anticancer Characteristics of Date Seeds Extracts			UoS No. 15020401002-P	2014-2015	~ 41,000 \$

\***JUST**: Jordan University of Science and Technology; **HCST**: Higher Council for Science and Technology; **ISESCO**: Islamic Organization for Education, Culture and Science; **UoS**: University of Sharjah

## COMMUNITY SERVICE

### A. Consultave Work

1. Determination of bacterial types in aerated ponds of wastewater treatment plant at Al-Hasan Industrial City. Irbid Jordan.
2. Evaluation of degree of surface disfigurement of paint films by microbial growth. King Abdulla Hospital/Irbid-Jordan

### B. Public Seminars

1. Careers Day: "Future of Biotechnology & Genetic Engineering in Jordan". The Modern School, Amman-Jordan. April 4<sup>th</sup>, 2000.
2. First Scientific Meeting "Genetic Engineering". Latin Patriarchate Secondary School for Girls. Madaba-Jordan. March 10<sup>th</sup>, 2001.
3. Careers Day: "Future of Biotechnology & Genetic Engineering in Jordan". The Modern School, Amman-Jordan. March 15<sup>th</sup>, 2001.
4. Genetic Engineering. Noor Al-Husein Secondary School for Girls. Irbid-Jordan. March 28<sup>th</sup>, 2001.
5. Third Careers Day: "Future of Biotechnology & Genetic Engineering in Jordan". The Modern School, Amman-Jordan. March 18<sup>th</sup>, 2002.
6. Future Applications of Biotechnology & Genetic Engineering. Prince Faisal Technical College/Royal Jordanian Air Forces/Amman-Jordan. Jan. 4<sup>th</sup>, 2005.
7. Odor and Taste Problems in Water Supplies. Dept. of Biotechnology & Genetic Engineering. JUST-Irbid, Jordan. April 6<sup>th</sup>, 2008.
8. Genetic Enginnering and its Application. Sharjah TV. A TV interview, Morning of Sharjah. Sharjah, UAE. March 1<sup>st</sup>, 2009.
9. Establishment of Biotechnology Program at Sharjah University in collaboration with the University of Sheffield/UK. Krebs Institute of Molecular Biology & Biotechnology, The Univ. of Sheffield, Sheffield/UK. March 31<sup>st</sup>, 2009.
10. Applications of Biotechnology. Department of Applied Biology, University of Sharjah, Sharjah/UAE. May 14<sup>th</sup>, 2009.
11. Biotechnology in Our Life, Past and Future. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Oct. 1<sup>st</sup>, 2009.
12. Biotechnology Program at UOS. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Oct. 8<sup>th</sup>, 2009.
13. Application of CoSci at UOS For Initial Accreditation of Bachelor of Science in Biotechnology (B.Sc. BT) to the Commission For Academic Accreditation Ministry of Higher Education and Scientific Research, UAE. May 4<sup>th</sup>, 2010
14. The 2<sup>nd</sup> Biotechnology Students' Exhibition: Development and Future Plan. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Dec. 22<sup>nd</sup>, 2011.
15. Application of CoSci for the International Recognition of The Biotechnology Program by Society of Biology (SOB)/UK. Department of Applied Biology, University of Sharjah, Sharjah/UAE. April 11<sup>th</sup>, 2012.
16. Ongoing Progress of Biotechnology Program/UoS in Collaboration with Dept. of Molecular Biology & Biotechnology, The Univ. of Sheffield, Sheffield/UK. May 15<sup>th</sup>, 2012.
17. Biotechnology Program/UoS 2009--2012. Presented to the External Examiners from UK. Department of Applied Biology, University of Sharjah, Sharjah/UAE. May 27<sup>th</sup>, 2012.
18. Biotechnology Students' Training Experience/Summer 2012. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Sept 12<sup>th</sup>, 2012.
19. Biotechnology Students' Training Experience/Summer 2013. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Sept 11<sup>th</sup>, 2013.
20. Biotechnology Students' Training Experience/Summer 2014. Department of Applied Biology, University of Sharjah, Sharjah/UAE. Sept 10<sup>th</sup>, 2014

## C. Workshops

### I. Attending Seminars or Workshops Related to Teaching and Learning

1. The Twelve Workshop on Technology of Teaching and Evaluation. Consultation Center for Science and Technology, JUST-Irbid, Jordan, 6/9-10/9/1997.
2. The Sixteenth Workshop on Measurement and Evaluation. Consultation Center for Science and Technology, JUST-Irbid, Jordan, 1/2-3/2/1999.
3. The Second General Meeting of the Society of Deans of Science Colleges in the Arab World. Jordan University of Science and Technology. Irbid/Jordan. 28-29 April, 2004.
4. Planing for Academic Programs. University of Sharjah, Sharjah/UAE. Oct. 10<sup>th</sup>, 2009.
5. Forum on Strategic Directions for the Joint Engineering and Science Programs. University of Sharjah, Sharjah/UAE. Nov. 9<sup>th</sup>, 2010.
6. Forum on Strategic Directions for the Joint Health Sciences & Engineering and Science Programs. University of Sharjah, Sharjah/UAE. Nov. 23<sup>rd</sup>, 2010.
6. Tracking Progress Probation Students (Review from Fall 06-07 to Present). University of Sharjah, Sharjah/UAE. March 10<sup>th</sup>, 2011.
7. Leadership in Higher Education. College of Medicine, University of Sharjah, Sharjah/UAE. Dec. 10<sup>th</sup>, 2011.
8. Presenting the: Strategic Plan for Department of Applied Biology for the next 5 Years (2012-2017). College of science, Univ. of Sharjah/UAE. Dec. 12<sup>th</sup>, 2011.
9. What's New in Blackboard 9.1. How to Build your Course. University of Sharjah, Sharjah/UAE Jan. 25<sup>th</sup>, 2012.
10. Outcome Competencies & Medical Graduates Profile Forum. College of Medicine, University of Sharjah, Sharjah/UAE. March 23<sup>rd</sup>, 2013.
11. Workshop on National qualification Framework Emirates and Program and Course Outcomes and assessment. University of Sharjah, Sharjah/UAE. March 24<sup>th</sup>, 2013.
12. Library Workshop (Resources and Services). Univ. of Sharjah, Sharjah/UAE. Nov. 7<sup>th</sup>, 2013.
13. Preparation of Department Applied Biology to Full Academic Accreditation. Univ. of Sharjah, Sharjah/UAE. Nov. 21<sup>st</sup>, 2013.
14. Attended a training program on: "University of Sharjah Bylaws for Faculty" organized by "Center for Continuing Education & Professional Development" at the University of Sharjah. June 7-9<sup>th</sup>, 2015.
15. Attended a training program on: "University of Sharjah Bylaws for Leading Positions" organized by "Center for Continuing Education & Professional Development" at the University of Sharjah. Nov. 24-26<sup>th</sup>, 2015.

### II. Others

1. International Coral Reef Initiative (ICRI). Aqaba Region Authority-Aqaba-Jordan, 21/9 to 25/9/1997.
2. Jordan Assessment of National Health Preparedness, Mitigation, and Response to Natural and man-made Disasters. Organized by WHO. Amman-Jordan, 28-29 March 2004.
3. Industrial Biotechnology: Connecting Business, Academia. Organization of Islamic Conference, COMSTECH. Islamabad/Pakistan. 5-17 Nov. 2006.
4. National Workshop of National Program of Wildlife Sustainability Initiative. Ministry of Environment and Water, Dubai, UAE. Oct. 28-29<sup>th</sup>, 2015.
5. Think Science Competition 2016 Judging Panel. Emirates Foundation, April 16-19<sup>th</sup>, 2016. A judge in the 2016 Think Science Judging Panel. Dubai, UAE.

#### **D. Training Courses/Workshops Delevered**

1. Characterization and Analysis of Physical and Chemical Parameters for Drinking Water "Odor and Taste Problems in Water Supplies"- Course # 1a. Water and Environment Research and Study Center/Univ. of Jordan/Amman-Jordan, 27-9-2000.
2. Microbial Pathogens in Wastewater/Presentation and Practical Training. The Regional Training Program on Water Reuse in Agriculture. Queen Rania Al-Abdulla Center for Environmental Science and Technology/Jordan Univ. of Science & Technology, Irbid-Jordan, 3-14/12/2006 & 6-15/5/2007.
3. Risk Assessment and Management of Genetically Modified Organisms (GMOs). Ministry of Environment. Amman-Jordan, 30/9-1/10, 2003.
4. Risk Assessment and Management of Genetically Modified Organisms (GMOs). Ministry of Environment. Jordan Univ. of Sci. & Tech. Irbid-Jordan, 14/10-15/10, 2003.
5. Risk Assessment and Management of Genetically Modified Organisms (GMOs). Ministry of Environment. Moatah Univ., Moatah-Jordan 24/3/2004.
6. Importance of Academic Advising. Dept. of Applied Biology, Univ. of Sharjah, Sharjah-UAE, Feb. 6<sup>th</sup>, 2012.
7. Academic Orientation to Newly Admitted Biotechnology Students. Dept. of Applied Biology, Univ. of Sharjah, Sharjah-UAE, Sept. 18<sup>th</sup>, 2013.
8. Orientation to Summer 2014 Trainees "Biotechnology Students' Training". Dept. of Applied Biology, Univ. of Sharjah, Sharjah-UAE, Feb. 11<sup>th</sup>, 2014.
9. Academic Orientation to Newly Admitted Biotechnology Students. Dept. of Applied Biology, Univ. of Sharjah, Sharjah-UAE, Sept. 17<sup>th</sup>, 2014.
10. Academic Orientation to Newly Admitted Biotechnology Students. Dept. of Applied Biology, Univ. of Sharjah, Sharjah-UAE, Sept. 16<sup>th</sup> and Sept. 28<sup>th</sup>, 2015.
11. Biotechnology and its Application in Protecting the Environment. Environment Protection & Development Authority, RK/UAE. Oct. 22<sup>nd</sup>, 2015.
12. Antimicrobial Resistance. World Veterinary Day/One World..One Health Symposium. Public Health Services Dept./Veterinary Services Section. Dubai, April 27<sup>th</sup>, 2016.
13. Training Workshop (Quality Control & Assessment Measures Recognition of the BSc Degree in Biotechnology by SOB/UK). Faculty of Science & Arts/JUST, Irbid Jordan, August 17<sup>th</sup>, 2016.

#### **D. Training Courses Attended**

1. Quantitative water microbiology/Part of the NATO Sfp-981454 project on Evaluation of Riverbank Filtartion for protection of Jordanian Surface and Ground Water Resources. National Institute for Public Health and the Environment (RIVM)/Laboratory for Microbiological Health Protection. Bilthoven-The Netherlands, 28-1-06 to 11-2-06.
2. . Attended a training program on: "Leadership in Higher Education" organized by "*Institute of Leadership in Higher Education*" at the University of Sharjah. Jan. 24-26<sup>th</sup>, 2016.

#### **F. Committee**

1. Revision of Department of Applied Biology Curriculum Committee/JUST.
2. Establishment of Department of Biotechnology and Genetic Engineering Committee/JUST.
3. Establishment of Department of Environmental Sciences Committee/JUST.
4. Establishment of Forensic Sciences Program Committee/JUST.
5. Revision of Department of Biotechnology & Genetic Engineering Curriculum Committee/JUST.
6. Several committees (Annual Budget, Annual Report, Laboratory Supplies, Recruitement)/College of Sciences/UoS-Sharjah, UAE.
7. Molecular Medicine and Translational Research. Tasks as described in Chancellor's Decision No. (245)/2009-2010. UoS-Sharjah, UAE.
8. Formation of a Council to Develop CASTO into a Student Training and Career Advising Center. Tasks as described in Chancellor's Decision No. (45)/2011-2012. UoS-Sharjah, UAE.
9. Central Committee of the 3<sup>rd</sup> Sharjah Science Festival. Nov. 2013. UoS-Sharjah, UAE.

## REFERENCES

Name	Telephone No.	E-mail	Address
Prof. Hamid Al-Naimiy	<b>Mobile:</b> +971-50-7076111 +971-6-5052000	<a href="mailto:alnaimiy@sharjah.ac.ae">alnaimiy@sharjah.ac.ae</a>	Chancellor, University of Sharjah P.O. Box 27272 Sharhah, UAE
Prof. Madjid Merabti	<b>Mobile:</b> +971-56-7354362 +971-6-5052200	<a href="mailto:mmerabti@shrajah.ac.ae">mmerabti@shrajah.ac.ae</a>	Dean, College of Sciences, University of Sharjah P.O. Box 27272 Sharhah, UAE
Prof. Abdelrahim Hunaiti	<b>Mobile:</b> +962-777228880	<a href="mailto:ahunaiti@ju.edu.jo">ahunaiti@ju.edu.jo</a>	<b>Current:</b> Professor of Biochemistry/Dept. of Biological Sciences/Univ. of Jordan Amman 11942, Jordan <b>Past:</b> President of Jordan University President of Muatah University President of The Hashemite University President of Higher Education Accreditation Commission
Prof. Rida Khawaldeh	<b>Mobile:</b> +962-79-686-2222  +962-3-2372380 Ext. 6000 Fax:+962-3- 2375540	<a href="mailto:president@mutah.edu.jo">president@mutah.edu.jo</a>	<b>Former</b> President of Mutah University Muatah University Muatah/Karak-Jordan Postal Code: 61710

I hereby certify that the above information is true and correct  
Last Modified on May 25<sup>th</sup>, 2017