

*Curriculum Vitae*  
**Fawzi Irshaid, Ph. D.**  
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**PERSONAL DATA:**

Date of Birth : July 10, 1965  
Place of Birth : AL- Mafraq, Jordan  
Nationality : Jordanian  
Marital Status : Married  
Number of Children : Four  
Languages : Arabic and English



**EDUCATION:**

<b>Institute</b>	<b>Location/Degree</b>	<b>Year</b>	<b>Area of Study</b>	<b>Language</b>
Yarmouk University	Irbid / B.Sc.	1987	Nutrition	English
Yarmouk University	Irbid / M.Sc.	1989	Biochemistry	English
The Ohio State University	Columbus / Ph.D.	2005	Molecular Biology	English

**TITLE OF THESIS / DISSERTATION:**

**1. M. A. Thesis:** Biochemical and Immunological Comparison of Placental Glutathione S-Transferase from Human and Awassi Sheep.

**2. Ph. D. Dissertation:** Characterization of CR1L Gene Expression on Human Tissues: Identification of CR1L-2, a Two SCR Transcript From Human Fetal Liver and Bone Marrow.

**EMPLOYMENT RECORD:**

1. 2019-Present: Full professor, Biology Department, Al al-Bayt University, Jordan.
2. 2012-2019: Associate professor, Biology Department, Al al-Bayt University, Jordan.
3. 2013-2015: Head of Department of Biological Sciences, Al al-Bayt University, Jordan.
4. 2010-2013: Assistant Dean of Faculty of Science, Al al-Bayt University, Jordan.
5. 2007–2011: Assistant professor, Biology Department, Al al-Bayt University, Jordan.
6. 2005–2007: Full time Lecturer, Biology Department, Al al-Bayt University, Jordan.
7. 2001-2005: Teaching Assistant, Biology Department, The Ohio State University, USA.
8. 2000-2005: Graduate Research Associate, MCDB program, The Ohio State University, USA.
9. 1996-1999: Graduate Research Associate, Vet Bioscience, The Ohio State University, USA.

10. 1989-1990: Teaching assistant, Biology Department, University of Science and Technology, Jordan.

11. 1987-1990: Research assistant, Biology Department, Yarmouk University, Jordan.

12. 1987-1989: Teaching assistant, Biology Department, Yarmouk University, Jordan.

### **TEACHING EXPERIENCE:**

I taught the following courses and for several times through the period between 1987-present.

1. Advance Genetic Engineering-726
2. Advance Biochemistry (Graduate) 722
3. Advance Molecular Biology (Graduate) 750
4. Advance Molecular Biology (Graduate) 721
5. Research Methods in Biological Sciences 702
6. Research Project 499
7. Seminar 491
8. Special topic 498
9. Molecular Biology 451 (Classroom teaching and Online teaching)
10. Genetic Engineering 426
11. Practical Biochemistry 352
12. Biochemistry 351
13. Biochemistry 303
14. Practical Biochemistry 222
15. Biochemistry 221
16. Cell Biology 252 (Classroom teaching and Online teaching)
17. Genetics 240 (Classroom teaching and Online teaching)
18. Cell and Molecular Biology 201
19. General Biology 113
20. General Biology 107 (For nursing)
21. Practical General Biology 108 (For nursing)
22. Practical General Biology 104
23. Practical General Biology 103
24. General Biology 102
25. General Biology 101

### **RESEARCH INTERESTS:**

I am involved in a number of collaborative research projects with my colleagues here at Al al-Bayt University and with Professor Daniel Birmingham at The Ohio State University. My research interests focus on three topics or fields.

- I. The first research topic is in the field of human diseases, with special emphasis on systemic lupus erythematosus (SLE), diabetes mellitus and lymphoma cancer. In collaborations with my colleagues here at Al al-Bayt University, and with my previous adviser Professor Daniel Birmingham at The Ohio State University as well as from outside the university, we search to identify specific biomarkers in these listed diseases.
- II. My second field of interest lies in the discovery and development of novel drugs. In collaboration with my colleagues in Departments of Chemistry and Biological Sciences, we have designed and synthesized several synthetic organic compounds and investigate their

role as antioxidants, antidiabetic, antibacterial and etc. Studies also conducted to isolate natural products from medicinal plants for their evaluation as antidiabetic, antioxidants, and antibacterial agents.

- III. My third research stream focuses on environmental microbiology. I am currently conducting ongoing research into isolation, characterization and biochemical and molecular identification of bacteria from various sources including the Dead Sea, soil, wastewater, industrial sites and etc. I am also examining the role of some of the isolated bacteria in the biodegradation of xenobiotics in the environment and uptake of heavy metals.

I also encourage any undergraduate and graduate students interested in doing research on any of topics listed above or other topics related to my topics is to contact me.

### **HONORS AND AWARDS:**

I was awarded the following:

1. 1999-2005: Scholarship from The Ohio State University for graduate study in Molecular Cellular and Developmental Program.
2. 1987-1990: Fellowship from Yarmouk University for graduate study in Biochemistry.
3. 1983-1987: Scholarship from Ministry of Education, Jordan for undergraduate study at Yarmouk University.

### **RESEARCH GRANTS:**

1. 1989-1990: Purification and characterization of placental Glutathione S-Transferase from Awassi Sheep. Grant from the Higher Council for Science and Technology, Jordan, (1000 JD).
2. 2008-2013: Studying the genetic variability of insulin hormone in patients with type II diabetes mellitus. Grant from Deanship of Academic Research, Al al-Bayt University, Mafraq, Jordan (18,000 JD).
3. 2010-2014: Studies on removal of heavy metals by bacteria isolated from As-Samra Wastewater treatment plant. Grant from the Deanship of Academic Research, Al al-Bayt University, Mafraq, Jordan (21,300 JD).
4. 2009-2012: Studying the chemical development and its indicators in the drinking water from the source to the consumer in Zarqa and Mafraq. Grant from the Ministry of Higher Education and Scientific Research, Scientific Research Fund (20,000 JD).
5. 2012-2014: A grant from the Deanship of Academic Research, Al al-Bayt University, Mafraq, Jordan, to accomplished six graduate projects (3,000 JD).
6. 2016-2017: A grant from the Deanship of Academic Research to accomplished four graduate projects, Al al-Bayt University, Mafraq, Jordan (4000 JD).
7. 2017-2018: A grant from the Deanship of Academic Research to accomplished three graduate projects, Al al-Bayt University, Mafraq, Jordan (3000 JD).

## **OTHER ACTIVITIES:**

1. Participation in Blood Borne Pathogens Generic Training Workshop. The Ohio State University, Ohio, Columbus, 1998.
2. Participation in the training course in the use of radioactive material in laboratory. Organized by The Ohio State University, Ohio, Columbus. 2000.
3. Participation in the training course in the use of animals in laboratory experiments. Organized by The Ohio State University, Ohio, Columbus. 2001.
4. Participation in the guide for teaching theoretical courses for undergraduate student. Held by The Ohio State University, Ohio, Columbus. 2002.
5. Participation in the XXth International Complement Workshop, June 13-18, 2004 in Honolulu, Hawaii, USA.
6. Participation in preparation for the achievement biology exam for the student at Jordan Universities in Amman, 2006.
7. Participation in preparation of the study plans for Bachelor Degree and Master of Science Degree in Department Biological Sciences (Thesis track and non-thesis track) at Al al-Bayt University, 2007-2009.
8. Participation in national conference for the development of study plans, teaching and learning, and scientific research, June 15-17, 2010.
9. Participation in preparation of the study plans for Bachelor Degree in Department Medical Laboratory Sciences at Al al-Bayt University, 2015-2016.
10. Participation in preparation of the study plans for Master Degree in Department Biological Sciences at Al al-Bayt University, 2019.
11. The time higher education, University ranking forum, online, 22 July, 2021.
12. Miniaturize to maximize: High-resolution genomic and NGS libraries at a fraction of the cost, on Monday, September 7, 2021.
13. Select Science House, Innovations in CRISPR advancing translational research, online, on Monday, September 13, 2021.
14. Select Science House, Delivering the cells that matter: Accelerating genome engineering workflows through efficient single-cell cloning of human iPSCs, online, Thursday, September 23, 2021.
15. Qiagen, 2021: Global TB Clinical and Educational Summit-online, on September 29, 2021.
16. Select Science House, the mRNA vaccines: Development, manufacturing, and how NanoDrop Eight can help, online, on Wednesday, October 27.
17. Select Science House, using oligos printed on demand with enzymatic DNA synthesis accelerates

Candida glabrata mutagenesis work flow, online, on Thursday, November 04.

18. Select Science House, SARS-CoV-2 variants: Impact on vaccines and laboratory testing, online., Tuesday, November 9, 2021.

### **COMMITTEES INSIDE THE UNIVERSITY:**

1. Member of the scientific research committee of the Department of Biological Sciences: 2006-2022.
2. Representative of Department of Biological Sciences: 2008-2011, 2016-2017, 2019-2020.
3. Member of the Al al-Bayt university council: 2014/2015, 2017-2018, 2019-2020 and 2021-2022.
4. Member of the student misconduct committee, 2008-2015.
5. Member of the committee for the final examination for the master degree, 2007-2021.
6. Member of the higher education committee of the Department of Biological Sciences: 2006-2021.
7. Member of Faculty of Science for preparation of the study plan: 2008-2021.

### **COMMITTEES OUTSIDE THE UNIVERSITY:**

1. Member of Scientific and Technical Committee & Editorial Review Board on Biological and Life Sciences.
2. Member of Scientific Technical Committee and Editorial Board on Biological, Pharmaceutical & Environmental Sciences, Planetary Scientific Research Center (PSRC).
3. President of Conservative of the Holly Quran Society, Branch of Al-Manshieh: 2013-2015 and 2018-2021.
4. Member and Reviewer of International Academy of Arts and Science and Technology.
5. Member and Reviewer of Editorial /Advisory Board Member in Asian Journal of Research in Biological and Pharmaceutical Sciences.
6. Member of Scientific Technical Committee and Editorial Board on Chemical, Biological, Medical & Environmental Sciences, International Scientific Academy of Engineering & Technology.
7. Member of Scientific Board of Biological, Pharmaceutical & Medical Sciences.
8. Eastern Mediterranean Health Journal reviewers' panel: <http://www.emro.who.int/emh-journal/eastern-mediterranean-health-journal/home.html>.
9. Member of the Scientific Board of Civil and Environmental Engineers: [http://iieng.org/ editorial board.php/7](http://iieng.org/editorial_board.php/7).
10. International Institute of chemical, Biological and Environmental engineering- Scientific Board of Biological, Pharmaceutical & Medical Sciences: [https://www.iicbe.org/editorial\\_board.php](https://www.iicbe.org/editorial_board.php).

### **REVIEWER FOR THE FOLLOWING JOURNALS:**

1. Pakistan Journal of Pharmaceutical Sciences
2. Pharmaceutical Biology
3. Process Biochemistry
4. Japan Journal of Pharmacology
5. World Journal of Biochemistry and Biotechnology
6. Asian Journal of Research in Biological and Pharmaceutical Sciences
7. International Journal of Pharmacology
8. Eastern Mediterranean Health Journal

### **EDITOR BOARD:**

1. Asian Journal of Biological Sciences
2. Asian Journal of Research in Biological and Pharmaceutical Sciences
3. International Journal of Biotechnology and Recent Advances
4. Asian Journal of Cell Biology

### **SUPERVISOR OF THE FOLLOWING STUDENT'S GRADUATION PROJECTS:**

1. **Fatiha Dilmi:** Expression of p16 protein and detection of Epstein Barr Virus in malignant Lymphoma. **Graduated, 2008.**
2. **Eman Ahmed Rgebat:** Biodegradation of chloroaromatic compounds by bacteria isolated from Kharba Al-Samrah waste water plant. **Graduated, 2009.**
3. **Doha Ali Qokazeh:** Uptake of chromium by bacterial to be isolated from Kharba Al-Samrah waste-water plant. **Graduated, 2010.**
4. **Ahmad Mohammed Ibrahim:** Recruitment of coral reef fish of Pomacentridae (Damsel-fishes) on both natural and artificial reefs in the Aqaba Gulf. **Graduated, 2010.**
5. **Alia Salem Khwaldh:** A Prevalence of heterotrophic bacteria and coliforms among shopping carts. **Graduated, 2012.**
6. **Wafa Etayeb Salama:** The Epibacterial Flora of Vegetables Belonging to Solanaceae, Cucurbitaceae and Brassicaceae Families Produced and Consumed in Al-Mafraq Governate, Jordan, **Graduated, 2012.**
7. **Salamah H. Al-Masaeed:** Antibacterial Activity of Newly-Synthesized Substituted 4-oxo-thiazolidine Compounds, **Graduated, 2012.**

8. **Hamzeh R. Al-Arqan:** Evaluation of the Antimicrobial Activity of Newly Synthesized Triazole Compounds, **Graduated, 2013.**
9. **Saif Aldeen I. Al-Hawamdeh:** Determining the Levels of Bacteria in Red Meat at Butcher Shops and Their Antibigrams, **Graduated, 2013.**
10. **Milad A Arzeni :** Evaluation of thyroid hormone levels in Libyan patients with chronic renal failure before and after maintenance hemodialysis, **Graduated, 2014.**
11. **Mohamed A. Alhalib:** Microbiological analysis of bioaerosols collected from different zones at Al-Mafraq Governorate, **Graduated, 2014.**
12. **Mufida Farhst Saud:** Isolation, identification and physiological analysis of xylene-degrading bacteria from local gas station, **Graduated, 2014.**
13. **Huba Ahmed Majdlwy:** Screening for toluene-degrading bacteria from polluted soil collected from sites located near the industrial city of Irbid, Jordan, **Graduated, 2014.**
14. **Ahmed Saad Abood:** Assessment of the serum levels of aspartate aminotransferase, alanine aminotransferase, and gamma-glutamyl transferase in patients with chronic kidney disease, **Graudated, 2016.**
15. **Ahmad Olemat:** Screening of spent engine oil degrading bacteria from soil taken from site surrounding oil change workshop, **Graduated, 2017.**
16. **Qutaiba Samir:** Assessment of the levels of serum sodium, potassium, zinc and vitamin B12 in patients with hypothyroidism, **Graduated, 2017.**
17. **Razan Joma'a Alrdeat:** Measurement of fibrinogen level, prothrombin time and activated partial thromboplastin time in pregnant women suffering from blood clotting in placenta, **Graduated, 2018.**
18. **Elaf Al-Dalabeeh:** Identification of *Entamoeba* species in fresh stool samples from Jordanian patients by microscopic and molecular analysis, **Graduated, 2019.**
19. **Samia Ramadan:** Evaluation of the antibacterial and antifungal activities of the novel synthesized thioxo- and selenoxo-phosphino species derived from mono-oxidation of new N-(4-acetylphenyl)-P, P-diphenylphosphinous amide ligand, **Graduated, 2019.**
20. **Abeer Ali Odah:** The effects of smoking on vitamin C and vitamin E levels in Jordanian adults, **Graduated, 2019.**
21. **Mustafa Ahmed AL-Dulaimi:** Screening for interleukins IL-2, IL-10, IL-12, and IL-18 in patients with chronic hepatitis B virus, **Graduated, 2019.**

#### **PUBLICATIONS:**

1. **Fawzi I. Irshaid,** Adnan Mohammad Al-Harashseh, Omar Toheeteh Alnhoud. Evaluation of Physical and Chemical Properties of Poultry Sludge and its Suitability for Reuse in Agricultural and Non-Agricultural Applications. Jordanian Journal of Engineering and Chemical Industries, 4(3): 86-95, **2021.**

2. Omar Toheeteh Alnhoud, Adnan Mohammad Al-Harabsheh, Mohammad Salameh Al-Harabsheh, **Fawzi I. Irshaid**. Animal solid waste as a potential renewable biomass energy source: a case study of Jordan. *Biomass Conversion and Biorefinery*, **2021**. <https://doi.org/10.1007/s13399-021-01714-4>.
3. Elaf Adel Al-Dalabeeh, **Fawzi I. Irshaid**, Shantanu Roy, Ibne Karim M. Ali, Abdulrahman Mohummad Al-Shudifat. Identification of *Entamoeba histolytica* in Patients with Suspected Amebiasis in Jordan Using PCR-based Assays. *Pakistan Journal of Biological Sciences*, 22: 166-172, **2020**.
4. **Fawzi I. Irshaid** and Daniel Joseph Birmingham. Cq1 exon polymorphisms in Caucasian and African American systemic lupus erythematosus patients. *Pakistan Journal of Biological Sciences*, 21: 119-126, **2018**.
5. **Fawzi I. Irshaid**, Sabah M. Khaleel, Abdulrahman M. Al-Shudifat, and Ahmed S. Abood. The effects of smoking and body mass index on serum liver enzyme levels in chronic kidney disease patients on hemodialysis. *Journal of Medical Sciences*, 18 (3): 114-123, **2018**.
6. **Fawzi I. Irshaid**, Jacob H. Jacob and Saifaldeen Alhawamdeh. The slaughtering and dressing procedures of livestock at the butcher shops generate high levels of bacterial contamination. *Journal of Basic and Applied Science*, 14: 165-173, **2018**.
7. **Fawzi I. Irshaid**, Jacob H. Jacob, Isolation and molecular identification of new benzene degrading *Lysinibacillus* strains from gasoline contaminated soil. *Research Journal of Environmental and Earth Sciences* 8(4): 34-43, **2016**.
8. **Fawzi I. Irshaid**, Jacob H. Jacob, Yaseen A. Al-Soud and Hamdoon A. Mohammed. Nematocidal effect of 1,2,4-triazole derivatives against *Bursaphelenchus xylophilus*. *Asian Journal of Biochemistry*, 11(3): 156-161, **2016**.
9. Jacob H. Jacob, **Fawzi I. Irshaid** and Mohamed A. Alhalib. Estimation and identification of airborne bacteria and fungi in the outdoor atmosphere of Al-Mafraq area, Jordan. *Jordan Journal of Biological Sciences*, 9 (1): 3-10, **2016**.
10. **Fawzi I. Irshaid** and Jacob, J. Screening and characterization of aerobic xylene-degrading bacteria from gasoline contaminated soil sites around gas stations in northern Jordan. *Journal of Biological Sciences*, 15: 167-176, **2015**.
11. Jacob, J. H. and **Fawzi I. Irshaid**. Toluene Biodegradation by Novel Bacteria Isolated from Polluted Soil Surrounding Car Body Repair and Spray Painting Workshops. *Journal of Environmental Protection*, 6: 1417-1429, **2015**.
12. **Fawzi I. Irshaid**, Jacob H. Jacob and Alia S. Khwaldh. Contamination of the handles and bases of shopping carts by pathogenic and multi-drug resistant bacteria. *European Scientific Journal*, 10(27): 154-169, **2014**.
13. **Fawzi I. Irshaid**, Prevalence of insulin-treated type 2 diabetes mellitus in Northern Jordan: Life style, familial inheritance, maternal influence. *European Scientific Journal*, 10(12): 366-380, **2014**.



- 14. Fawzi I. Irshaid**, Khalid A. Tarawneh, Jacob H. Jacob and Aisha M. Alshdefat. Phenol content, antioxidant capacity and antibacterial activity of methanolic extracts derived from four Jordanian medicinal plants. *Pakistan Journal of Biological Sciences*, 17(3): 372-379, **2014**.
- 15.** Jacob H. Jacob and **Fawzi I. Irshaid**. A New *Shewanella putrefaciens* strain isolated from the Dead Sea of Jordan. *Malaysian Applied Biology Journal*, 42(2): 13-19, **2013**.
- 16.** Jacob H. Jacob, **Fawzi I. Irshaid** and Yaseen Al-Soud: Antibacterial activity of some selected 1,2,4-Triazole derivatives against standard, environmental, and medical bacterial strains. *Advanced Studies in Biology*, 5(6), 291 - 301, **2013**.
- 17. Fawzi I. Irshaid**, Khaled Tarawneh, Aisha Alshdefat, Fatiha Dilmi, Raji Al-Hadithi, Adnan Jaran and Ahad Al-Khatib. Loss of P16 protein expression and its association with Epstein-Barr Virus LMP-1 expression in Hodgkin's Lymphoma. *Iranian Journal of Cancer Prevention*, 6(2), 78-84, **2013**.
- 18.** Jacob H. Jacob, **Fawzi I. Irshaid**, Yaseen Al-Soud, Abdullah M. Al-Balushi and Hamzeh R. Al-Arqa: Synthesis, characterization and evaluation of antibacterial activity of six novel 1,2,4-Triazole derivatives against standard and medical bacteria. *Advanced Studies in Biology*, 5(6), 303 - 318, **2013**.
- 19.** Jacob H. Jacob and **Fawzi I. Irshaid**. Biochemical and molecular taxonomy of a mild halophilic strain of *Citrobacter* isolated from hypersaline environment. *Research Journal of Microbiology*, 7(4): 219-226, **2012**.
- 20. Fawzi I. Irshaid**, Kamal Mansi, Ahmad Bani-Khaled and Talal Aburjia. Hepatoprotective, cardioprotective and nephroprotective actions of essential oil extract of *Artemisia sieberi* in alloxan-induced diabetic rats. *Iranian Journal of Pharmaceutical Research*, 11 (4): 1227-1234, **2012**.
- 21. Fawzi I. Irshaid** and Kamal Mansi. Status of thyroid function and iron overload in adolescents and young adults with Beta-thalassemia major treated with deferoxamine in Jordan. *International Journal of Biological and Life Sciences*, 7(1): 47-52, **2011**.
- 22. Fawzi I. Irshaid**, Adnan Jaran, Fatiha Dilmi, Khaled Tarawneh, Raji Hadeth, and Ahad Al-Khatib. Prevalence of Epstein-Barr virus latent membrane protein-1 in Jordanian patients with Hodgkin's lymphoma and Non-Hodgkin's lymphoma. *Journal of Biological Sciences*, 10(6): 507-513, **2010**.
- 23.** Daniel J. Birmingham, **Fawzi I. Irshaid**, Haikady N. Nagaraja, Xunchang Zou, Betty P. Tsao, Hui Wu C., Yung Yu, Lee A. Hebert, and Brad H. Rovin. The complex nature of serum C3 and C4 as biomarkers of lupus renal flare. *Lupus*, 19 (11): 1272-1280. **2010**.
- 24. Fawzi I. Irshaid**, Kamal Mansi and Talal Aburjai. Antidiabetic Effect of Essential Oil Extracted Obtained From *Artemisia Sieberi* Growing in Jordan in Normal and Alloxan Induced Diabetic Rats. *Pakistan Journal of Biological Sciences*, 13 (9): 423-430. **2010**.
- 25.** Khaled Tarawneh, **Fawzi I. Irshaid**, Moyad M. Abboud, Isam H. Ajlundi, Noor A. Mohammed and Ali M. Khleifat. Biodegradation kinetics of four substituted chlorobenzoic acids by enterobacter aerogenes. *Bioremediation*, 14(2):55-66, **2010**.
- 26.** Khaled Tarawneh, **Fawzi I. Irshaid**, Adnan Jaran and Magda Ezealarab. Evaluation of antibacterial and antioxidant activities of methanolic extracts of some medicinal plants in northern part of Jordan. *Journal of Biological Sciences*, 10(4): 325-332, **2010**.

- 27. Fawzi I. Irshaid**, Fatiha Dilmi, Khaled Tarawneh, Raji Hadeth, Adnan Jaran, and Ahad Al-Khatib. Loss of P16/INK4A protein expression is a common abnormality in Hodgkin's lymphoma. *International Journal of Biological and Life Sciences* 5:215-220, **2009**.
- 28. Fawzi I. Irshaid** and Kamal Mansi. The effects of methanol extract derived from *Urtica Pilulifera* leaves on some hematological and biochemical parameters of diabetic rats. *Research Journal of Biological Sciences* 4 (6):675-681, **2009**.
- 29. Fawzi I. Irshaid** and Kamal Mansi. Effects of leaf extract of *Urtica pilulifera* L. on male reproductive system of streptozotocin-diabetic rats. *American Journal of Pharmacology and Toxicology* 4 (2): 22-28, **2009**.
- 30.** Khaled Tarawneh, Khaled M. Khleifat and **Fawzi I. Irshaid**. Independent regulation of *Neurospora crassa* bli-7 gene by blue light and glucose using the GTH16 transformant containing the chimeric bli-7/Tyrosinase Gene. *International Journal of Molecular Medicine and Advance Sciences* 4 (4): 106-111, **2008**.
- 31.** Daniel J Birmingham, **Fawzi Irshaid**, Katherine F Gavit, Haikady N Nagaraja, C. Yung Yu, Brad H Rovin and Lee A Hebert. A polymorphism in the type one complement receptor (CR1) involves an additional cysteine within the C3b/C4b binding domain that inhibits ligand binding. *Molecular Immunology*, 44 (14): 3510-3516, **2007**.
- 32.** Hamdy Hassanain, **Fawzi I. Irshaid**, Sheik Wisel, John Sheridan, Robert Michler and Pascal Goldschmidt-Clermont. Smooth muscle cell expression of a constitutive active form of human Rac1 accelerates cutaneous wound repair. *Surgery*; 137 (1):92-101, **2005**.
- 33. Fawzi I. Irshaid**, C. Yung Yu, and Daniel J. Birmingham. Human fetal liver and bone marrow express a transcript that encodes the two N-terminal SCRs of CR1-like. *Molecular Immunology*, 41: 248-249, **2004**.
- 34.** Al-Kheraije, K., S. Wisel, K. Rigatto, **Fawzi I. Irshaid**, S. Mitchell, M. Morris and H.H. Hassanain. Expression of profiling in vascular smooth muscle cells leads to vascular hypertrophy and hypertension in a transgenic mouse model. *J. Am. Heart Assoc.*, 106: 296-299, 2002.
- 35.** Hamdy Hassanain, **Fawzi I. Irshaid**, Khalid Al-Kheraije, Robert Michler and Pascal Goldschmidt-Clermont. Smooth muscle cell expression of a constitutive active form of human Rac1 accelerates wound repair. *J. Am. Heart Assoc.*, 102 (18), **2000**.
- 36.** Hassanain, H.H., N. Lopes, M. Marialuisa, **Fawzi I. Irshaid** and Q. Ma *et al.*, 2000. Transgenic Smooth muscle cell expression of an activated Rac mutant induces hypertension. *J. Am. Heart Assoc.*, 102: 81-81, **2000**.
- 37. Fawzi I. Irshaid**, SK Kulp, Y Sugimoto, K Lee, and YC Lin. Zeranol stimulates estrogen-regulated gene expression in MCF-7 human breast cancer cells and normal human breast epithelial cells. *Society for the Study of Reproduction*, 60, supplement1, **1999**.
- 38.** Adelrahim Hunaiti and **Fawzi I. Irshaid**. Studies on human placental glutathione S- transferase multiplicity and mother age influence. *Arch. Int. Physiol. Biochem*; 98:331-338, **1990**.

## **INTERNATIONAL CONFERENCES AND ABSTRACTS:**

- 1) Al al-Bayt University, Al-Mafraq, Jordan, April, 5-6, 2017: **International Conference of Chemistry and Biosciences, ICCB 2017.** **Fawzi I. Irshaid**, Ahmed Saad Abood and Sabah Jabrah: Alteration in levels of liver enzymes in patients with chronic kidney disease undergo hemodialysis.
- 2) Antalya, Turkey, June. 4-5, 2014: **International Conference on Agriculture, Environment and Biological Sciences.** **Fawzi I. Irshaid** and Jacob H. Jacob: Presence of pathogenic and multi-drug resistant bacteria on the surface of handles and bases of shopping carts
- 3) Al al-Bayt University, Al-Mafraq, Jordan, Nov. 20-22, 2012: **International Conference on Sciences- ICS-AABU-UKM-2012.** **Fawzi I. Irshaid**, Khaled A. Tarawneh, Jacob H. Jacob, and Aisha Alshdefat: Phenol content, antioxidant capacity and antibacterial activity of methanolic extract derived from four Jordanian medicinal plants.
- 4) Al al-Bayt University, Al-Mafraq, Jordan, Nov. 20-22, 2012: **International Conference on Sciences- ICS-AABU-UKM-2012.** **Fawzi I. Irshaid**, Yousef Hamad Alhajaya and Khaled A. Tarawneh Biodegradation of 3-chlorobenzoic acid By *Corynebacterium auris*.
- 5) Al al-Bayt University, Al-Mafraq, Jordan, Nov. 20-22, 2012: **International Conference on Sciences- ICS-AABU-UKM-2012.** Jacob H. Jacob, and **Fawzi I. Irshaid**: A New *Shewanella putrefaciens* strain isolated from the Dead Sea of Jordan.
- 6) Copenhagen, Denmark, June 8-10, 2012: **International conference in human genetic.** **Fawzi I. Irshaid**: The absence of P16 protein expression was associated with the presence of Epstein-Barr Virus LMP-1 for Hodgkin's lymphoma but not for non-Hodgkin's lymphoma patients.
- 7) Pattaya, Thailand, October 7-8, 2011: **International Conference on Chemical, Environmental and Biological Sciences.** **Fawzi I. Irshaid**, Kamal Mansi, Ahmad Bani-Khaled and Talal Aburjia: Hepatoprotective, cardioprotective and nephroprotective actions of essential oil extract of *Artemisia sieberi* in alloxan-induced diabetic rats.
- 8) Bubai, January 25-28, 2011: **International conference in cellular and molecular Biology.** **Fawzi Irshaid**. The relationship between the presence of Epstein-Bar virus encoded latent membrane protein-1 and Loss of P16/INK4A protein expression in Malignant lymphoma.
- 9) Singapore, December 18-20, 2010: **International conference in chemical and Biological engineering.** **Fawzi I. Irshaid**, Fatiha Dilmi, Khaled Tarawneh, Raji Hadeth, Adnan Jaran, and Ahad Al-khatib: Loss of P16/INK4A protein expression is a common abnormality in Hodgkin's lymphoma. World Academy of Science, Engineering and Technology 72, 221-226, 2010.
- 10) Aqaba, Jordan, April 29, 2010, **Development of Artificial Reefs in the Gulf of Aqaba.** Ahmad Ibrahim, **Fawzi I. Irshaid** and Maroof Khalaf: Damselfish assemblages in Aqaba artificial and natural reefs, 2010.
- 11) Penang, Malaysia, February 24-26, 2010 **ICCSB 2010: International Conference on Computational and Systems Biology.** **Fawzi I. Irshaid**, Adnan Jaran, Fatiha Dilmi, Khaled Tarawneh, Raji Hadeth, and Ahad Al-khatib: Prevalence of Epstein-Barr virus latent membrane protein-1 in Jordanian patients with Hodgkin's lymphoma and Non-Hodgkin's lymphoma. World Academy of Science, Engineering and Technology, 62: 1233- 1241, 2010.

12) Cairo, Egypt, December 8-10, 2009: 1<sup>st</sup> Euro-Mediterranean Conference' Plant Natural Products: From Biodiversity to Bioindustry". Adnan Jaran, **Fawzi I. Irshaid**, Khaled Tarawneh, Magda A. Ezealarab: Antioxidant and antimicrobial activity of some methanolic plant extracts in north Jordan.

13) Venice, Italy, October 28-30, 2009: International conference on bioinformatics and biomedicine: **Fawzi I. Irshaid** and Kamal Mansi: Status of Thyroid Function and Iron Overload in Adolescents and Young Adults with Beta-Thalassemia Major Treated with Deferoxamine in Jordan. World Academy of Science, Engineering and Technology 58, 658-663.

14) Columbus, Ohio, USA, July 24-26, 2005, **Fawzi I. Irshaid**, Hamdy Hassanain, Khalid Al-Kheraije, Robert Michler, Pascal Goldschmidt-Clermont: Transgenic Smooth muscle cell expression of a constitutive active form of human Rac1 accelerates wound repair.

15) Honolulu, Hawaii, USA, June 13-18, 2004. The XXth International Complement Workshop, **Fawzi I. Irshaid**, C. Yung Yu, and Daniel J. B.: Identification of CR1L-2, a two SCR transcript from human fetal liver and bone marrow. Molecular Immunology, 2004.

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17) Keystone, Colorado, USA, April 24-29, 2001. Hassanain H., **Fawzi I. Irshaid**, Al-kheraije K, Michler RE, Pascal Goldschmidt-Clermont: Smooth muscle cell expression of a constitutive active form of human Rac 1 accelerates wound repair. Keystone Symposia for Angiogenesis and Chronic Diseases & Cellular and Molecular Events in the Pathogenesis of Atherosclerosis.

### **COMPUTER SKILLS:**

Microsoft Office Suite (Excel, Word, Outlook, Access, PowerPoint), Adobe Photoshop, Email communication, Web and Social Media Skills, Communication and collaboration tools (Zoom, Skype, etc.), Professional networking, Online teaching, Graphic and Writing Skills.

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