

## CV.

### **Personal data:**

Name: Abdullah Trad Shofan Al-fawwaz  
Marital Status: married  
Gender: male  
Nationality: Jordanian  
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### **Education:**

**PhD** in Biology with specialization Microbial Biotechnology  
(Biosorption of heavy metals from aqueous solutions by green algae isolated from Penang Rivers)  
University science Malaysia, Penang, Malaysia (2006- 2010)

**M.Sc.** in Biology with specialization in Biotechnology  
(Production of Antimicrobial Agents from Cyanobacteria)  
Al al-Bayt university, Jordan (1999-2003)

**B.Sc.** in Applied Biology With specialization in-  
- Genetics and Molecular Biology  
-Applied Microbiology  
Jordan University of Science and Technology Jordan, (1992-1997)

Secondary School from Al-thoura Al-arabia Al-kubra, Jordan, (1991-1992)

### **Experience:**

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- Al al-Bayt University – Associate professor, 15/3/2017- until now.
- Al al-Bayt University – Assistant professor, 23/3/2012- 15/3/2017.
- Al al-Bayt University – Lecturer, 25/8/2010- 23/3/2012.
  
- Al al-Bayt University – Assistant dean for student affairs,1/9/2013 -1/9/2016.
- Al al-Bayt University – Head of Department of Biological Sciences,1/9/2016- 25/9/2017.
- Al al-Bayt University – Vice Dean, Graduate Studies 22/9/2018- 14/9/2021.
  
- Ministry of Education- Jordan, 31/8/1998 – 16/8/2006
- Language assistant in Jordanian international training center
- Trainer for Intel (Teach to the future) Courses
- Coordinator for Intel (Teach to the future) Courses
- Technical committee-“2nd Regional conference on Ecological and Environmental Modelling”, August 28-30, 2007, Penang, Malaysia
- University Sins Malaysia, School of Biological Sciences -Fellowship Scheme- 2007/2008

### **Skills:**

- Arabic: Mother language
- English: Excellent command in spoken, written and, read.
- Good experience in computer and Internet (ICDL) & (Intel–Teach to the Future)

## **Courses:**

- Courses for New Teachers
- Local Environment and Scientific Activities Courses
- Two months training in Alhusin medical city labs -Jordan
- Occupational safety and health course for postgraduate students
- Research Methodology, Scientific writing, and statistical analysis workshop
- TAIEX workshop on GEANT H2020 and European Synchrotron Sources (12-13/8/2017)
- Strengthening Human Resources, Legal Frameworks And Institutional Capacities To Implement The Nagoya Protocol, UNDP, gef and ministry of Environment Amman 17-18 July 2019.

## **Publications:**

- **Al-fawwaz A. T.**, Jacob H. Jacob. **2011.** Removal of methylene blue and malachite green from aqueous solution by *Chlorella* and *Chlamydomonas* species isolated from a thermal spring environment. *International Journal of Integrative Biology*, 12: (1), 36-41.
- Wan Maznah, W. O., **Al-Fawwaz, A.T.**, Misni Surif. **2012.** Biosorption of copper and zinc by immobilised and free algal biomass, and the effects of metals biosorption on the growth and cellular structure of *Chlorella* sp. and *Chlamydomonas* sp. isolated from rivers in Penang, Malaysia. *Journal of Environmental Sciences*. (24) 1386-1393.
- Abu-Zaiton A. and **Al-Fawwaz A.T.** **2013.** Prevalence of Diabetes, Obesity, Hypertension and Associated Factors among Students of Al al-Bayt University, Jordan. *World Journal of Medical Sciences* 9 (1): 49-54.
- Alsohaili S. A. and **Al-Fawwaz A. T.** **2014.** Composition And Antimicrobial Activity of *Achillea fragrantissima* Essential Oil Using Food Model Media. *European Scientific Journal*. 10 (30): 156-165.
- Khaled A. Al-Khaza'leh and **Abdullah T. Al-fawwaz.** **2015.** The Effect of Static Magnetic Field on *E. coli*, *S. aureus* and *B. subtilis* Viability. *Journal of Natural Sciences Research*. 5 (24): 153-157.
- **Al-Fawwaz A. T.** and Alsohaili S. A. **2015.** Antimicrobial Activity of *Varthemia iphinoidea* and *Majorana syriaca* Essential Oils from Jordan and Their Potential Use as Natural Food Preservatives. *Journal of Natural Sciences Research*. 5(22): 155-161.
- **Al-fawwaz A.T** and Mufida Abdullah. **2016.** Decolorization of Methylene Blue and Malachite Green by Immobilized *Desmodesmus* sp. Isolated from North Jordan. International Conference on Environmental Science and Development (ICESD) 2015. February 14-15, Amsterdam, Netherland.( selected to be published in *Journal of Environmental Science and Development*, 2016, 7(2): 95-99).
- **Al-fawwaz A.T.** and Khaled A. Al-Khaza'leh. **2016.** Antibacterial and antifungal effect of some natural extracts and their potential use as photosensitizers. *European Scientific Journal*. 12(6): 147-157.

- **Al-fawwaz A.T.**, Mariam Abu-AL-Basal and Hala Ali Tawil. **2015**. Evaluating the Effect of Algal Extracts against Ultraviolet B-Induced Skin Damage in BALB/c Mice. *Journal of Environmental Science and Engineering B*. 2015, B4: 583-590.
- **Al-fawwaz A.T.**, Jacob H. Jacob, Turkia E. Al-Wahishe. **2016**. Bioremoval Capacity of Phenol by Green Micro-Algal and Fungal Species Isolated From Dry Environment. *International Journal of Scientific & Technology Research*. 2016, 5(02), February: 155-160.
- Mahmoud Al-Refai, Mohammad Ibrahim, **Abdullah Al-Fawwaz** and Armin Geyer. **2017**. One-pot synthesis and antimicrobial activity of new 4,6- isubstituted-3,4-dihydropyrimidine-2(1H)-thiones. *European Journal of Chemistry*. 8 (1): 96-100. DOI:10.5155/eurjchem.8.1.96-100.1543
- **Abdullah T. Al-fawwaz** and Khaled A. Al-Khazaleh. **2017**. Evaluation of Pb, Cu, Zn and Cd Levels in Some Plants at Roadsides between Mafraq and Jerash, Jordan. *Journal of Environmental Science and Engineering A*, 6(8) :395-401.
- Jacob H. Jacob, **Abdullah T. Al-Fawwaz** and Hussein H. Al-shira'h. **2018**. Evaluation and Optimization of Methane Production from Different Manure Types. *Jordan Journal of Biological Sciences*. 11(3).
- Mohammad M. Ibrahim, Mahmoud Al-Refai, **Abdullah Al-fawwaz**, Mohamad Nurul Azmi, et al. **2018**. Synthesis of Fluorescent 1-(3-Amino-4-(4-(tert-butyl)phenyl)-6-(p-tolyl)furo[2,3-b]pyridin-2-yl)ethan-1-one: Crystal Structure, Fluorescence Behavior, Antimicrobial and Antioxidant Studies, *Journal of Fluorescence*. 28(2).
- Mahmoud Al-Refai , Mohammad Ibrahim, **Abdullah Al-Fawwaz** and Armin Geyer. **2018**. Synthesis and characterization of new 4-aryl-2-(2-oxopropoxy)-6-(2,5-dichlorothiophene) nicotinonitrile and their furo[2,3-b]pyridine derivatives: Assessment of antioxidant and biological activity. *European Journal of Chemistry* 9 (4): 375-381
- Majed Ibrahim, Fatima Ghanem, Afnan Al-Salameen, **Abdallah Al-Fawwaz**. **2019**. The Estimation of Soil Organic Matter Variation in Arid and Semi-Arid Lands Using Remote Sensing Data. *International Journal of Geosciences* 10 (5): 576-588. DOI: 10.4236/ijg.2019.105033.
- Engy Elhadad, Majed Ibrahim, **Abdullah Al-Fawwaz**. **2021**. Effects of Pollution on Hydrogeochemistry and Water Quality of the Damietta Branch (Nile River, Egypt), *Water Science and Technology*. 84(6): 1509-1517. doi.org/10.2166/wst.2021.327.
- Sajeda N. Al-Barri1, Taghleab M. Al-Deeb, **Abdullah T. Al-Fawwaz**, Mariam M. Al-Omari, Khaled M. Al- Qaoud. **2021**. Antimicrobial, antioxidant and cytotoxic activities of *Ephedra aphylla* and *Bassia muricata* plants collected from Northern Jordan. *Plant Cell Biotechnology And Molecular Biology*. 22(53&54):47-64.
- Rawad Kh. Hameed and **Abdullah T. Al-Fawwaz**, **2021**. Antibacterial activity of olive leaf and palm pit extracts against bacterial species related to food poisoning. *Gorteria*.34(8):

## **Conferences:**

- 2<sup>nd</sup> Scientific Conference for Science Faculty. **2002**. Production of Antimicrobial Agents from Cyanobacteria, May 8-9, 2002, Al-al Bayte University, **Mafrq, Jordan**.
- 9<sup>th</sup> Symposium of the Malaysian Society of Applied Biology. **2007**. Effect of Culture conditions on Antimicrobial Agents Production from *Scytonema* Sp., May 30-31, 2007, **Penang, Malaysia**.
- International Conference on Environmental Research and Technology (ICERT 08). **2008**. Biosorption of Copper Using Live and Dead Green Microalgae Isolated From Penang Rivers, Malaysia, MAY 28-30, 2008, **Penang, Malaysia**.
- 11<sup>th</sup> International Conference on Applied Phycology. **2008**. Effect of Immobilization and Cultural Conditions on Antibacterial Activity of *Scytonema* 1824 Extracts, June 21-27, 2008, **Galway, Ireland**.
- Alsohaili S. A. and Al-Fawwaz A. T. **2014**. Antibacterial and Antifungal Activity of Essential Oils Isolated From Jordan and Their Potential Use as Natural Food Preservatives. Integrated Multidisciplinary and Transboundary reaserach for Global Transformation. (9<sup>th</sup> IMT-GT ). November 4-6, **Penang, Malaysia**.
- Al-fawwaz A.T and Mufida Abdullah. **2015**. Decolorization of Methylene Blue and Malachite Green by Immobilized *Desmodium* sp. Isolated from North Jordan. International Conference on Environmental Science and Development (ICESD) 2015. February 14-15, **Amsterdam, Netherland**.
- Al-fawwaz A.T., Melad F. Al-Khazahila. **2016**. Antimicrobial Activity of *Ruta* sp. From North Jordan Using Different Extraction Methods. 64<sup>th</sup> International Conference on Environment and Natural Science (ICENS). 16<sup>th</sup>-17<sup>th</sup> August, **Stockholm, Sweden**.
- Hussein H. Al-shira'h, Abdullah T. Al-Fawwaz and Jacob H. Jacob. **2017**. Optimization and Biogas Production from Different Types of Animal Wastes. International Conference of Chemistry and Biosciences (ICCB 2017). 5<sup>th</sup>-6<sup>th</sup> April, **Mafrq, Jordan**.

## **Courses Taught:**

- |                                   |      |
|-----------------------------------|------|
| - General Biology (1)             | B101 |
| - General Biology (2)             | B102 |
| - Practical General Biology (1)   | B103 |
| - Practical General Biology (2)   | B104 |
| - Human Biology                   | B109 |
| - Bioinformatics                  | B330 |
| - Practical general plant Biology | B341 |
| - Oceanography and Marine Biology | B375 |
| - Biotechnology                   | B430 |
| - Practical Biotechnology         | B431 |
| - Ecology                         | B449 |
| - Seminar                         | B491 |
| - Special topics in Biology       | B492 |
| - Advanced Biotechnology          | B738 |

### **My current RESEARCH INTERESTS:**

- Spatial Water quality monitoring and assessment using Geographic Information System (GIS) techniques.
- Evaluating the Effect of Algal Extracts on Ultraviolet B-Induced Skin Damage in BALB/c Mice.
- Bio fuel and methane production from different biological sources.
- Bioconversion of organic compounds using consortium system with algae.
- Biological decolorization of Methylene blue and Congo red Dyes from aqueous solution by some Algae and Fungi species Isolated from Local Environment.
- Bioremoval of phenol by some algae and fungi isolated from local environments
- Antibacterial and antifungal activity of essential oils isolated from Jordan and their potential use as natural food preservatives
- Isolation and identification of crude oil-degrading microorganisms from soil sites at the Jordanian petroleum refinery.
- Seasonal and Spatial Variations of Heavy Metals concentration in soils and plants along north Badia Al-Mafraq Highway using Geographic Information System (GIS) techniques

### **Membership:**

- Member in Malaysian Society of Applied Biology (MSAB), 2007
- Member in International Society for Applied Phycology (ISAP), 2008
- Member in Egyptian Society For Environmental Sciences (ESES), 2017