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## CURRICULUM VITAE

**Sawsan Ibrahim Khdair**

*Department of Pharmacy/Faculty of Pharmacy*

*Al-Zaytoonah University of Jordan, Amman, Jordan*

*Phone: 00962795513275*

*E-mail: [sawsan.khdair@zuj.edu.jo](mailto:sawsan.khdair@zuj.edu.jo)*

*[khdairsawsan@yahoo.com](mailto:khdairsawsan@yahoo.com)*



### 1. Personal Data

Date of Birth: 24/12/1973

Nationality: Jordanian

### 2. Education

- Ph.D. Immunogenetics and Molecular Biology 2013, Faculty of Medicine at the National and Kapodistrian University of Athens, Athens, Greece.
- B.Sc. (Science of Biology ) 1996, Yarmouk University, Irbid, Jordan

### 3. Employment

#### Academic Positions

- Assistant Professor A, Faculty of Pharmacy, Al-Zaytoonah University of Jordan Amman, Jordan. January 23, 2020-now
- Assistant Professor B, Faculty of Pharmacy, Al-Zaytoonah University of Jordan Amman, Jordan. September 15, 2015- January 22, 2020

#### Administrative Positions

- Dean Assistant of Quality Assurance, Faculty of Pharmacy, Al-Zaytoonah

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University of Jordan Amman, Jordan. 2017- now

#### 4. **Research Interests**

- HLA and Autoimmune Disease (AID), human genetic diseases with different genetic markers, cytokine genotyping, gene expression and different diseases.
- Clinical studies.

#### 5. **Membership in Scientific Societies and Associations**

- Member of the Jordanian Society of Allergy and Immunology (Jordan Medical Association) Amman, Jordan 2015-now.
- Member of editorial board at the Journal of Comprehensive Research in Translational Science. 2021-now.

#### 6. **Honors and Awards**

- Honored from the Jordan Pharmaceutical Association (JPA) 2019.
- Honored from the Al-Zaytoonah University of Jordan for receiving the Quality Assurance Certificate (Faculty of Pharmacy) from the Accreditation and Quality Assurance Commission of Higher Education Institutions in Jordan, 2017.

#### 7. **Teaching Experience**

- *Undergraduate Courses*
  - Immunology (2015-now)
  - Pathophysiology (2016-now)
  - Pathophysiology laboratory (2016-2021)
  - Anatomy (2016-2019)
  - Biology (2015-2016)

#### 8. **Supervision (Master thesis)**

1. Alaa' Zayadneh. Master thesis entitled "The effect of single nucleotide polymorphisms (SNPs) of cytokines on the pathogenesis of Systemic Lupus Erythematosus with arthritis among Jordanians patients. **Main supervisor**, 2023
2. Lubna Al-khresha. Master thesis entitled "A study of Major Histocompatibility Complex (MHC) genes" association with Multiple Sclerosis in Jordanian patients. **Main supervisor**, 2023

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3. Mohammed Walid. Master thesis entitled “Comparison of cytokines relative mRNA expression in Multiple sclerosis (MS) patients with a control group. **Co-supervisor** 2023
  4. Seham Za’roor. Master thesis entitled “Cytokines Genotype variants on the pathogenesis of Systemic Lupus Erythematosus among Jordanians patients”. **Main supervisor**, 2023
  5. Rawan Bdour. Master thesis entitled “Immunogenetic profile of Lupus nephritis among Systemic Lupus Erythematosus Jordanian patients”. **Main supervisor** 2022.
  6. Ola Al-Naimat, Master thesis entitled Association between cytokine gene polymorphisms and diabetes in the Jordanian population: a case-control study, **Main supervisor**, 2021.
  7. Yasmeen Al-Haithem. Master thesis entitled Protective effect of Metformin on oxandrolone-induced neuroinflammation and behavioral changes in rats, **Co-supervisor**, 2020.

## **11. Grants**

1. The influence of NKG2D/MICA alleles on triggering Type 1 Diabetes in Jordanian patients, 2022, Al-Zaytoonah University of Jordan, 13000 JOD.
2. The association between Vitamin D Receptor Gene Polymorphisms in Jordanian Patients with Predisposition to Diabetes, 2021, Al-Zaytoonah University of Jordan, 20000 JOD.
3. Genetic association of the HLA class II alleles with Type 1 diabetes mellitus (T1D) in the Jordanian population, 2018, Al-Zaytoonah University of Jordan, 20000 JOD.

## **12. Membership of Committees**

- **National and International**
- *The Jordanian Society of Allergy and Immunology: member 2015- now*
- *Member of Editorial Board at the Journal of Comprehensive Research in Translational Science. 2021-now.*
- *Internal examiner thesis committees (master students):*
  - o Rasha Ramzi Al-debas (MS in Pharmaceutical Sciences, ZUJ)
- **University**
- *Member of Department Council.* Faculty of Pharmacy/ Al-Zaytoonah University of Jordan 2015- now.
- *Head of Quality Assurance Committee.* Faculty of Pharmacy/ Al-Zaytoonah University of Jordan 2017-now.
- *Member of ACPE steering committee.* Faculty of Pharmacy/ Al-Zaytoonah University of Jordan 2019-now.

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- *Member of Quality Assurance Committee.* Faculty of Pharmacy/ Al-Zaytoonah University of Jordan 2015-2016.

#### **14. Professional and Scientific Meetings**

##### *Scientific Meetings Organized*

- Member of Scientific Committee of the 8<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 2-3 June 2023.
- Member of the Scientific Committee of the 8<sup>th</sup> International Pharmaceutical Conference. Al-Zaytoonah University of Jordan. Amman, Jordan, 18-19<sup>th</sup> Oct, 2023.
- Head of Quality Assurance Committee of the 7<sup>th</sup> International Pharmaceutical Conference. Al-Zaytoonah University of Jordan. Amman, Jordan, 6-7<sup>th</sup> Nov, 2019.
- Member of the Executive Committee of the 7<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 21-23 August, 2019.
- Member of the Executive Committee of the 6<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 26-28 July, 2017.

##### *Participation in Scientific meetings and training courses.*

1. Training course in “Developing of Leadership and Innovation Skills” Al-Zaytoonah University, Amman-Jordan, 3.5/10/2022.
2. Training course in “Designing Interactive learning content” Al-Zaytoonah University, Amman-Jordan, 28/02-03/03/2022.
3. ISO 2001:2018 Awareness & ISO 19011:2018 Internal Auditor Course. DNV.GL. Al-Zaytoonah University of Jordan. Amman, Jordan, 13-15 October, 2020.
4. The 7<sup>th</sup> International Pharmaceutical Conference. Al-Zaytoonah University of Jordan. Amman, Jordan, 6-7<sup>th</sup> Nov, 2019.
5. The 7<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 21-23 August, 2019.
6. Workshop in Pharmacogenomics Testing: Toward personalized Therapy. At ACDIMA Bio-Center. Amman, Jordan, 2-3 August 2019. **Oral speech** “HLA Genotyping and Drug Response”.
7. Training course in “Applied basic statistic assisted with SPSS software” Al-Zaytoonah University, Amman-Jordan, 18-20/02/2019.
8. ACPE International Services Program. Al-Zaytoonah University of Jordan, Amman-Jordan, 9 May 2018.

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9. The biosafety workshop for Jordanian Universities. Princess Haya Biotechnology Center, Jordan University of Science and Technology, Irbid-Jordan, 15 October, 2017.
  10. The 6<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 26-28 July, 2017.
  11. Training Workshop "التخطيط الإستراتيجي: مفهومه وإطاره الإرشادي ومراحله المختلفة" Alzaytoonah University of Jordan, Amman-Jordan, 13 June, 2017.
  12. The 6<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman, Jordan, 26-28 June, 2017.
  13. International meeting "The Pomaks of Thrace: A Multidisciplinary and Interdisciplinary Approach". Komotini, Greece, 17-19 March, 2017. **Oral speech**
  14. Training course in quality management. Al-Zaytoonah University of Jordan, Amman-Jordan, 5-16 February, 2017.
  15. Training Workshop "بناء الأختبارات التحصيلية و تحليلها و تفسير نتائجها" (Building achievement tests, analysis and interpretation of the results). Al-Zaytoonah University of Jordan, Amman-Jordan, 16-18 February, 2016.
  16. Training course in ICDL "الرخصة الدولية لقيادة الحاسوب" Al-Zaytoonah University of Jordan, Amman-Jordan 28 February-26 May, 2016.
  17. The 15<sup>th</sup> Congress of The Middle East Society for Organ Transplantation (M.E.O.ST). Amman-Jordan, 21-24 September 2016.
  18. Women Oncology Conference. Amman-Jordan, 15-17 October 2015.
  19. The 5<sup>th</sup> International Jordanian Congress of Allergy and Immunology. Amman-Jordan, 28-30 May 2014.
  20. The 3<sup>rd</sup> International Congress of the Jordanian Rheumatism Society (JRS) in collaboration with British Society for Rheumatology (BSR). Amman-Jordan 21-23 October 2014.
  21. Training in Hellenic Cord Blood Bank (collection, processing and cryopreservation of Umbilical Cord Blood UCB and pre-transplantation HLA typing). Biomedical Research Foundation Academy of Athens (BRFAA) 2011-2012:

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## 15. Publications

- Papers in refereed journals:

1. **Sawsan I. Khdair**, Rawan Al-Bdour, Wassan Jarrar, Alaa Hammad, Aya Al-Jayeh, Mohammad Masa'deh, Marwan Adwan and Randa Farah. *Immunogenetic Profiling of SLE and LN among Jordanian Patients*. J. Pers. Med., 12, 1955, 2022. **(IF, 3.5)**
2. **Sawsan I. Khdair**, Ola S. Al-Naimat, Wassan Jarrar, Walid Al-Qerem, Feras A. Khudeir. *The Influence of TNF- $\alpha$ , IL-6, TGF- $\beta$ 1, IFN- $\gamma$ , IL-10 Polymorphisms on Predisposition to Diabetes Mellitus among Jordanian Patients*. Endocrine, Metabolic & Immune Disorders - Drug Targets. 2022. **(IF, 2.85)**
3. Wassan Jarrar, **Sawsan I. Khdair**, Feras A. Khudeir. MICA Polymorphism and Genetic Predisposition to T1D in Jordanian Patients: A Case-Control Study. Life 12, 2022, 1813. **(IF, 3.2)**
4. Alaa M Hammad, Walid Al-Qerem, Alaa Abu Zaid, **Sawsan I. Khdair**, F Scott Hall. *Misconceptions Related to COVID 19 Vaccines Among the Jordanian Population: Myth and Public Health*, Disaster Med Public Health Prep. Jun 8;1-8, 2022. **(IF, 5.56)**
5. Walid Al-Qerem, Abdel Qader Al Bawab, Alaa Hammad, Tasneem Jaber, **Sawsan I Khdair**, Haneen Kalloush, Jonathan Ling & Rami Mosleh. *Parents' attitudes, knowledge and practice towards vaccinating their children against COVID-19: a cross-sectional study*, Human Vaccines & Immunotherapeutics. 2022, e2044257. **(IF, 4.52)**
6. **Khdair, S.I.**, Jarrar, Y.B., and Jarrar, W. *Immunogenetic Prediction of VDR Gene SNPs: Lack of Association with Susceptibility to Type 1 Diabetes in Jordanian Patients*, Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy. 14, 2021, 4079-4087. **(IF, 3.3)**
7. Hammad, A. M., Ibrahim, Y. A., **Khdair, S. I.**, Hall, F. S., Alfaraj, M., Jarrar, Y., & Abed, A. F. *Metformin reduces oxandrolone-induced depression-like behavior in rats via modulating the expression of IL-1 $\beta$ , IL-6, IL-10 and TNF- $\alpha$* , Behavioural Brain Research, 414, 2021, 113475. **(IF, 3.3)**
8. **Khdair, S.I.**, Al-Qerem, W., Jarrar, W.; *Knowledge and attitudes regarding genetic testing among Jordanians: An approach towards genomic medicine*, Saudi Journal of Biological Sciences, 28 (7), 2021, 3989-3999. **(IF, 4.2)**
9. Khdair, A.I., Abu-Rumman, G., **Khdair, S.I.**; *Thermal Conductivity of Olive Cake Compost (OCC) as Affected by Moisture and Density: An Experimental and Mathematical Modeling*, Compost Science & Utilization, 2020, 1-8. **(IF 1.5)**
10. **Khdair, S.I.**, Jarrar, W, Jarrar, Y.B, Bataineh, S., and Al-Khaldi, O.; *Association of HLA-DRB1 and -DQ Alleles and Haplotypes with Type 1 Diabetes in*

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*Jordanians*, Endocrine, Metabolic & Immune Disorders - Drug Targets 20 (6), 2020, 895–902. (**IF, 2.85**)

11. Khdair, A.I., Abu-Rumman, G., **Khdair, S.I.**; *Pollution estimation from olive mills wastewater in Jordan*, Heliyon, 5, 2019, e02386. (**IF 3.92**)
12. Khdair, A.I., **Khdair, S.I.**, Abu-Rumman, G.; *Dataset on some soil properties improvement by the addition of olive pomace*, Data in brief, 24, 2019, 103878. (**IF 1.38**)
13. Khdair, A.I., Abu-Rumman, G., **Khdair, S.I.**; *Evaluation the mechanical harvesting efficiency of olive with the application of fruit loosening spray*, CIGR Journal, 20 (4), 2018, 69-75. (**IF, 0.64**)

- Conference Presentations:

1. **Khdair, S.I.**; *The Origin of Pomaks and Their Genetic Relatedness with Other Mediterranean Populations. The International meeting “The Pomaks of Thrace: A Multidisciplinary and Interdisciplinary Approach”*, Komotini, Greece, 17-19 March, 2017. **Oral speech**