

CURRICULUM VITAE

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1. Personal Data

Date of Birth: 01/03/1986
Nationality: Jordanian / German

2. Education

- Ph.D. (Cell and Molecular Biology) 2014, Technical University of Braunschweig, Braunschweig, Lower Saxony, Germany.
- M.Sc. (Biological Sciences) 2010, Technical University of Braunschweig, Braunschweig, Lower Saxony, Germany.
- B.Sc. (Biological Sciences) 2008, University of Jordan, Amman, Jordan.

3. Ph.D. Dissertation

Genetic analysis of Nkx2.2 and Nkx2.9 transcription factors in mouse brain development: specific functions in the hindbrain, Technical University of Braunschweig, Braunschweig, Lower Saxony, Germany.



4. Employment

Academic Positions

- Associate Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan.
December 29, 2022 – now
- Assistant Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan.
October 13, 2014 – December 28, 2022
- Research Assistant, Department of Cell Biology, Technical University of Braunschweig, Braunschweig, Germany
January 4, 2011 – March 30, 2014

Administrative Positions

Not applicable

5. Research Interests

Cell and Molecular Biology, Developmental Biology, Genetics, Immunogenetics.

6. Membership in Scientific Societies and Associations

A member of the Genetics Society “Gesellschaft für Genetik” (2013-2014).
A member of the Association of German Graduates (2014- 2017).
A member of the Returning Experts program (Jordan) / Centre for international migration and development (CIM) (2014- 2016).

7. Honors and Awards

- Honored from Al-Zaytoonah University of Jordan in acknowledgement of my contribution in receiving the Quality Assurance Certificate (Faculty of Pharmacy) from the Accreditation and Quality Assurance Commission of Higher Education Institutions in Jordan, 2017.

8. Fellowships and Scholarships

- PhD Scholarship from the Deutsche Forschungsgemeinschaft (DFG) (January 2011 – March 2014).



9. Teaching Experience

- **Graduate Courses**
Not applicable
- **Undergraduate Courses**
 1. Anatomy and Histology.
 2. Physiology 1.
 3. Physiology 2.
 4. Physiology for Nurses.
 5. Anatomy for Nurses.
 6. Biology.
 7. Anatomy and Histology Laboratory.
 8. Physiology Laboratory.
 9. Anatomy and Physiology 1
 10. Anatomy and Physiology 2
 11. Anatomy and Physiology Laboratory

10. Supervision of Graduate Research

1. Ola Al-Naimat, Association between cytokine gene polymorphisms and diabetes in the Jordanian population: a case-control study, 2021.
2. Ayat Balasmeh, Identification of Novel Genetic Variant on N-acetyltransferase 2 Gene (*NAT2*) with *In Silico* Functionality among Jordanian Population, 2017.
3. Areej Nasrallah, Synthesis and Biological Evaluation of Substituted Benzylamino Benzamide Derivatives as potential CETP Inhibitors, 2017.

11. Grants

1. The influence of NKG2D/MICA alleles on triggering type 1 diabetes in Jordanian patients, 2021, Al-Zaytoonah University of Jordan, 13052 JOD.
2. The association between Vitamin D Receptor Gene Polymorphisms in Jordanian Patients with Predisposition to Diabetes, 2021, Al-Zaytoonah University of Jordan, 24000 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.



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4. Measuring Antibacterial Drug Use and Antibacterial Resistance to Improve Antimicrobial Stewardship: An Insight from Jordan, 2015, Al-Zaytoonah University of Jordan, 10.320 JOD.

12. Patents

Not applicable

13. Membership of Committees

• National and International

A member of the Examination Committee (Internal Examiner) of the following postgraduate students:

1. Yasmeen Zaid Al-Kilani, *The impact of novel lipid-lowering drugs on the expression of inflammatory markers in Triton WR1339 induced hyperlipidemic rats*, Al-Zaytoonah University of Jordan, June 2023.
2. Seham Zarour, *Cytokines Genotype variants on the Pathogenesis of Systemic Lupus Erythematosus among Jordanians patients*, Al-Zaytoonah University of Jordan, June 2023.
3. Fatima Khirfan, *The Influence of Non-steroidal Anti-Inflammatory Drugs and Paracetamol on the Expression of the Lung Coronavirus (COVID-19) Attachment Receptor and Enzyme Genes in Mice*, Al-Zaytoonah University of Jordan, May 2021.
4. May Al-Majawleh, *DNA Methylation Levels and the Effect on Gene Expression of Several Genes Involved in Breast Cancer Using PCR Array*, Al-Zaytoonah University of Jordan, June 2016.
5. Nisrin El-Shennawy, *Molecular Characterization of the Antihyperlipidemic Activity of Novel Indole-Carboxamides Series in Rats*, Al-Zaytoonah University of Jordan, January 2016.

• University

1. The Committee for Curricular Equivalence and Academic Advisement, and Training, and Alumni Follow-up (2017 – 2019).
2. The Committee of Quality Assurance (2017 – 2019) and (2022 – 2023).
3. The Committee of Social and sports activities (2015 – 2018).



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4. The Committee of Graduate Follow-up (2015 – 2017) and (2019 – now).
5. The Committee of Scientific research (2019 – 2020).
6. The Committee of Curriculum modules (2020 – 2022).

14. Professional and Scientific Meetings

Scientific Meetings Organized

- The 1st Scientific conference for Graduate Students (Contributions toward Excellence and Creativity) held in Al-Zaytoonah University of Jordan campus, 3-4 May, 2023.

Participation in Scientific meetings

- The 44th annual conference of the German Genetics Society, Oral presentation, Braunschweig, Germany, Sep 2013.

15. Participation in or organization of curricular and/or extra-curricular activities

- Evaluation and assessment of scientific projects of students in the Science Fair of The International Independent Schools, Jordan, June 2nd, 2022.
- Evaluation and critical assessment of two scientific research proposals from Zarqa University, Jordan, June 2019.
- Evaluation and assessment of scientific projects of students in the Ninth Science Fair of Al Hassad International School, Jordan, December 16th, 2018.
- Organization of the following activities:
 - The Sixth Alumni reunion held in Al-Zaytoonah University of Jordan campus, June 2023.
 - The Fifth Alumni reunion held in Al-Zaytoonah University of Jordan campus, June 2022.
 - Talk held by Dr. Salah Shubair about successful career planning and its importance in preparing senior students and fresh graduates for the labor market, March 2022.
 - Talk held by Mr. Khaled El Ahmad about the Digital Identity and its importance in preparing senior students and fresh graduates for the labor market, February 2021.



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- Talk held by Dr. Salah Shubair about preparing senior students and fresh graduates for the labor market, February 2021.
 - Talk held by Eng. Khalil Wahhab about preparing senior students and fresh graduates for writing effective CVs and preparing themselves for the labor market, December 2019.
 - The Fourth Alumni reunion held in Al-Zaytoonah University of Jordan campus, April 2019.
 - Talk held by Eng. Khalil Wahhab about preparing senior students for writing effective CVs and developing Interview skills, November 2018.
 - The Third Alumni reunion held in Al-Zaytoonah University of Jordan campus, April 2018.
 - Pharmacy Career Day for graduates and 5th year students held in Al-Zaytoonah University of Jordan campus, March 2018.
 - The Second Alumni reunion held in Al-Zaytoonah University of Jordan campus, May 2017.
 - Talk held by Dr. Wafa Al-Jamal (Lecturer in Pharmaceutics, University of East Anglia) in the Faculty of Pharmacy in Al-Zaytoonah University of Jordan, December 2016.
 - The First Alumni reunion held in Al-Zaytoonah University of Jordan campus, December 2015.
 - The Science film festival in cooperation with Goethe Institute in Amman, Jordan, 15- 17 October 2014.
- Participation in the following activities:
 - Biological risk management (BRM) Curriculum Introduction and Integration workshop, Royal Scientific Society, Jordan, 27-28th June 2022.
 - Applications of e-learning and National Qualification Framework (NQF) training, Al-Zaytoonah University of Jordan, Jordan, Feb 2021.
 - University's 10th Career Day / Career Day for Pharmacy students, Al-Zaytoonah University of Jordan, Jordan, April 2018.
 - Test Construction and analysis of Results training, Al-Zaytoonah University of Jordan, Jordan, Jun 2017.
 - University's 9th Career Day / Career Day for Pharmacy students with the participation of 15 pharmaceutical companies and pharmacies, Al-Zaytoonah University of Jordan, Jordan, May 2017.
 - Grant Writing Workshop for Researchers, Princess Sumaya University for Technology, Jordan, Sep 2016.
 - Practical “Immunology” course, Helmholtz-Center for Infection Biology, Germany, Aug 2008.
 - Practical „In-vitro-fertilization” course, IVF-Genetics Laboratory-Specialty Hospital, Jordan, July 2008.
 - TOEFL-iBT preparation course, AMIDEAST, Jordan, Mar 2008.



16. Publications

- Papers in refereed journals
 1. Ata, S.; **Jarrar, W.**; Alhusban, A.A.; Altarawneh, M. *Assessment of knowledge and attitude regarding lead poisoning among pharmacists in Jordan*. Polish Journal of Environmental Studies, 2023.
 2. Abusara, O.H.; Bishtawi, S.; Al-Qerem, W.; **Jarrar, W.**; Al-Khareisha, L.; Khdair, S.I. *Pharmacists' knowledge, familiarity, and attitudes towards biosimilar drugs among practicing Jordanian pharmacists: A cross sectional study*. Journal of King Saud University-Science, 35, 2023, 102767.
 3. Khdair, S.I.; Al-Bdour, R.; **Jarrar, W.**; Hammad, A.; Al-Jayeh, A.; Masa'deh, M.; Adwan, M.; Farah, R. *Immunogenetic Profiling of SLE and LN among Jordanian patients*. Journal of Personalized Medicine, 12 (12), 2022, 1955.
 4. **Jarrar, W.**; Khdair, S.I.; Khudeir, F.A. *MICA Polymorphism and Genetic Predisposition to T1D in Jordanian Patients: A Case-Control Study*. Life, 12 (11), 2022, 1813.
 5. Almomani, E.Y., **Jarrar, W.**, Alhadid, A., Hamadneh, L., Qablan, A., and Almomani, H. Y. *Shedding light on pharmacists' knowledge of kidney stones' etiology and treatment*. Pharmacy Practice, 20(3), 2022, 01-10.
 6. Khdair, S.I., Al-Naimat, O.S., **Jarrar, W.**, Al-Qerem, W., and Khudeir, F.A. *The Influence of TNF- α , IL-6, TGF- β 1, INF- γ , IL-10 Polymorphisms on Predisposition to Diabetes Mellitus among Jordanian Patients*. Endocrine, Metabolic & Immune Disorders - Drug Targets. 23(5), 2022, 681-691.
 7. 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.
 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.
 9. Abu Khalaf, R., NasrAllah, A., **Jarrar, W.**, Sabbah, D. *CETP Inhibitory Oxoacetamido-benzamide Derivatives: Glide Docking, Pharmacophore Mapping, and Synthesis*. Brazilian Journal of Pharmaceutical sciences. Accepted, 2020.



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10. Al-Qerem, W., Ling, J., **Jarrar, W.** *Validation of the Arabic version of the Childhood Illness Attitudes Scales.* Eastern Mediterranean Health Journal. 26 (6):668–679. 2020.
11. 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 Jordanians,* Endocrine, Metabolic & Immune Disorders - Drug Targets 20 (6), 2020.
12. Jarrar, Y, Balasmeh, A, & **Jarrar, W**; *Sequence analysis of the N-acetyltransferase 2 gene (NAT2) among Jordanian volunteers,* Libyan Journal of Medicine, 13(1), 2018, 1408381.
13. **Jarrar, W**, Vauti, F, Arnold, H.H and Holz, A; *Generation of a Nkx2.2 Cre knock-in mouse line: Analysis of cell lineages in the central nervous system,* Differentiation, 89(3), 2015, 70-76.
14. **Jarrar, W**, Dias, JM, Ericson, J, Arnold, HH, Holz, A; *Nkx2.2 and Nkx2.9 Are the Key Regulators to Determine Cell Fate of Branchial and Visceral Motor Neurons in Caudal Hindbrain,* PLoS ONE, 10(4), 2015, 0124408.

- Books and Book Chapters: *Not applicable*
- Conference Presentations

Jarrar, W, Arnold, HH, Holz, A; *Specification of branchio-visceral motor neurons in the murine hindbrain depends on the transcription factors Nkx2.2 and Nkx2.9,* The 44th annual conference of the German Genetics Society, Oral presentation, Sep 2013, Germany.

- Reports: *Not applicable*