

## CURRICULUM VITAE

### Mohammad Ibrahim Mohammad Alwahsh

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### 1. Personal Data

Date of Birth: 07.03.1994

Nationality: Jordanian

### 2. Education

- Ph.D. (Toxicologic Pathology) 2022, Heidelberg University, Heidelberg, Germany
- M.Sc. (Pharmaceutical sciences) 2018, Al-Zaytoonah University of Jordan, Amman, Jordan
- B.Sc. (Pharmacy) 2015, Al-Zaytoonah University of Jordan, Amman, Jordan

### 3. Ph.D. Dissertation

- *Thymic Tissue Metabolomics and Bioengineering of an Artificial Thymic Carcinoma 3D Cell Culture for in vitro 3D/2D Drug Screening and the Investigation of Toxicity Employing a Novel Nuclear Magnetic Resonance Technique, University of Heidelberg, Heidelberg, Germany.*



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#### 4. Employment

##### Academic Positions

- Assistant Professor, Faculty of Pharmacy, Al Zytoonah University of Jordan, Amman-Jordan (2022 – present)

#### 5. Research Interests

- Cancer Metabolomics
- Identifying new methods to develop 3D cancer models for drug screening
- Multi-Omics
- Identification of possible therapeutic options via biomarkers detection

#### 6. Membership in Scientific Societies and Associations

- Jordan Pharmacists Association
- Society of Toxicology (SOT)
- Metabolomics Society

#### 7. Honors and Awards

#### 8. Fellowships and Scholarships

- PhD Scholarship from Al-Zaytoonah University of Jordan

#### 9. Teaching Experience

- *Graduate Courses*  
Not Applicable
- *Undergraduate Courses*
  - Pathophysiology
  - Toxicology
  - Pharmacology
  - Professional Pharmacy Practice 1
  - Professional Pharmacy Practice 2



## 10. Supervision of Graduate Research

1) Maedeh Nadertehrani, Assessing Optimal Fluorescence Parameters for Staining of 3D Cell Culture in Confocal Fluorescence Microscopy. 2021.

## 11. Grants

Not Applicable

## 12. Patents

Alwahsh Mohammad, Hergenröder Roland, Lambert Joerg, Raschke Hannes, Knitsch Robert. "Verfahren zur Analyse des Metaboloms dreidimensionaler lebender Zellkulturen mittels NMR-Spektroskopie" 64/24651 jm/s 02.03.2022

## 13. Membership of Committees

- **National and International**
- **University**

- 1) Equivalency and Guidance Committee
- 2) Pharmacy students Training Committee

## 14. Professional and Scientific Meetings

- 1) Society of Toxicology 2021 Annual Meeting and ToxExpo March 12 - March 26 USA
- 2) 15<sup>th</sup> Annual Conference of the Metabolomics society The Hague, Netherlands
- 3) EMBL Symposium: Organoids: Modelling Organ Development and Disease in 3D Culture 21 - 24 October 2020
- 4) Member of the Scientific Committee of the Al-Zaytoonah University of Jordan International Pharmaceutical Conference (ZTIPC 2022), Amman, Jordan, 18th to 19th of November, 2022.
- 4) Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2019), Amman, Jordan, 6<sup>th</sup> to 7<sup>th</sup> of November, 2019.



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5) Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2017.

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

- 1) PhD Students Representative at Leibniz Institut für Analytische Wissenschaften (2019-2022)
- 2) Participation in summer school work shop which also includes courses about (Intercultural Communication, Scientific Presentation and GSP for PhDs) At ISAS campus, Germany 10th–14th September 2018, 2019 and 2020
- 3) Participation in organizing committee for 1st Leibniz PhD Network Conference on Interdisciplinary Magdeburg, Germany, June 21-22, 2018
- 4) Invited as Guest speaker in “Nanomaterials for Drug Delivery Applications Workshop (NMDDA-2016)” held in 23/12/2016, SVU, Qena, Egypt. The talk title “Liver Cirrhosis and correlate gene with nano-material drug delivery “
- 5) Participation in Scientific presentation training course for Young Scientist Workshop "Communication in Science" University of Jordan, Amman, Jordan April, 25 - 26, 2017 in connection with the International Conference/Humboldt Kolleg "Jordanian Life Sciences for Sustainable Development"
- 6) Participation in training titled “Novel magnetic nanoparticle doped Nano filtration polymeric membranes for heavy metal removal from wastewater At Leibniz-Institut für Analytische Wissenschaften funded by Deutscher Akademischer Austauschdienst (DAAD) 01/07/2016 – 31/08/2016
- 7) Participation in organizing committee in Alexander von Humboldt conference on 27/04/2017 – 29/04/2017 at marriott hotel and Al Al-Bayt University Mafraq, Jordan also with poster titled “Mechanisms of stellate cell activation and removal in acute hepatotoxicities “
- 8) Participation in Leadership and innovation course, Amman, Jordan, 30.10.2022-03.11.2022



## 16. Publications

- Papers in refereed journals

Farhat, J., Pandey, I., AlWahsh, M. (2021) **Transcending towards advanced 3D cell culture modalities: A review about an emerging paradigm in translational oncology.** *Cells Journal*

AlWahsh, M., Othman, A., Hamadneh, L., Lambert, J.,..... Hergenröder, R., Al-Qirim, T., Dooley, S., Hammad, S. (2019) **Second exposure to acetaminophen overdose is associated with liver fibrosis in mice.** *EXCLI Journal*.

Robert Knitsch, Mohammad AlWahsh, Hannes Raschke, Jörg Lambert, Roland Hergenröder. (2021) **In vitro spatio-temporal NMR metabolomics of living 3D cell models.** *Analytical chemistry*.

Mohammad Alwahsh, Robert Knitsch, Rosemarie Marchan, Jörg Lambert, Christian Hoerner, Xiaonan Zhang, Berthold Schalke, De Hyung Lee, Elena Bulut, Thomas Graeter, German Ott, Katrin Kurz, Gerhard Preissler, Sebastian Schölch, Zhihan Yao, Carsten Sticht, Philipp Ströbel, Roland Hergenröder, Alexander Marx and Djeda Belharazem. (2022) **Metabolic profiling of thymic epithelial tumors hints to a strong Warburg effect, glutaminolysis and precarious redox homeostasis as potential therapeutic targets.** *Cancers*.

Elisabeth Jeanclos, Jan Schlötzer, Mohammad AlWahsh, Robert Hollmann, Natalia Yuan-Chen, Angelika Keller, Alexandra Kaestner, Martin Neuenschwander, Christoph Sottriffer, Roland Hergenröder, Jens Peter von Kries, Hermann Schindelin, Alexander Marx, Antje Gohla (2022) **Glycolytic fluxcontrol by drugging phosphoglycolate phosphatase.** *Nature Communications*

Lama Hamadneh, Mohamad Bahader, Rama Abuarqoub, Mohammad AlWahsh, Ala Alhusban.(2021) **Matrix Metalloproteinases Gene Expression Changes during Tamoxifen Resistance Development Associated with PI3K/AKT and MAPK Overexpression.** *Breast Cancer Springer Nature Journal*.

Joviana Farhat, Mohammad Alwahsh and basem Al-omari. (2022) **Structure–Activity Relationship of Benzofuran Derivatives with Potential Anticancer Activity.** *Cancers*.