

RESUME

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DATE OF BIRTH: 22 APR,1982
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TERIATARY EDUCATION

2014-2018 **DOCTOR OF PHILOSOPHY OF ANATOMY AND CELL BIOLOGY (Ph.D.)**
School of Life Sciences
University of Nottingham
Nottingham, United Kingdom

2006-2009 **M.SC. IN BIOLOGICAL SCIENCES**
School of of Biological Sciences
Faculty of Science
University of Jordan
Amman, Jordan

2000-2004 **B.SC. IN BIOLOGICAL SCIENCES**
Faculty of Science
University of Jordan
Amman, Jordan

OTHER QUALIFICATIONS / MEMBERSHIPS

Feb 2009 **Polymerase Chain Reaction (PCR) training course**
The Centre of Consultation
University of Jordan

Nov 2011 **Basics of Mammalian Cell Culture Workshop**
Hamdi Mango Centre
University of Jordan

Oct 2014 **Member in British Pharmacological Society**
London, United Kingdom

Dec 2015 **Animals Scientific Procedures Licence**
Nottingham, United Kingdom

RESEARCH EXPERIENCE

PhD project: Age-Related Changes in the Phenotype of Microglia.

WORK EXPERIENCE

Aug 2022	Associate Professor in Cell Biology Department of Biological Sciences Faculty of Science University of Jordan Amman, Jordan
Aug 2018-Aug 2022	Assistant Professor in Cell Biology Department of Biological Sciences Faculty of Science University of Jordan Amman, Jordan
Apr 2006 - Sep2014	Laboratory Supervisor Department Pharmacology Faculty of Medicine University of Jordan Amman, Jordan
Apr 2005 - March 2006	Microbiologist (Quality Control) Dar Al-Dawa (DAD group) Development and Investment Co. Amman, Jordan
Apr 2004 - Aug 2004	Research Assistant Department of Biological Sciences Faculty of Science University of Jordan Amman, Jordan

PUBLICATIONS

Imraish A, Abu Thiab T, Alsalem M, Dahbour S, khleif H, Abu-Irmaileh B, Qasem R, El-Salem K. The neuroprotective effect of human primary astrocytes in multiple sclerosis: *in vitro* model. Plos One. 19(4), 2024.

Al-hunaiti A, Ghazzy A, Abu Thiab T, Aqel H, Saied R, Taha M, Hwetat E, **Imraish A**, Zihlif M. New Chitosan-Based Trimetallic Cu_{0.5}Zn_{0.5}Fe₂O₄ Nanoparticles: Preparation, Characterization, and Anti-Cancer Activity. Pharmacy Practice. "Accepted for publication". 2024

Imraish A, Zihlif M, Abu-Thiab T, Al-Awaida W, Al-Ameer H, Abu-Irmaileh B, Al-Hunaiti A. Anti-inflammatory and antioxidant effects of rosmarinic acid trimetallic (Cu_{0.5}Zn_{0.5}Fe₂O₄) nanoparticles. Chemistry & Biodiversity. e202301739, 2024

Al-Zabin A, Abu Thiab T, Zihlif M, Al-Hunaiti A, Al-Ameer HJ, Al-Awaida W and **Imraish A**: Anti-angiogenic and cytotoxic evaluation of green-synthesized Fe₂ZnO₄ nanoparticles against MCF-7 cell line. *Biomed Rep* 20: 36, 2024

Imraish A, Abu-Thiab T, Hammad H. P2X and P2Y receptor antagonists reduce inflammation in ATP-induced microglia. *Pharm Pract (Granada)*. 2023 Jan-Mar;21(1):2788.

Alrabayah M, Massad IM, **Imraish A**, Jarrar Y, Massad F, Guzu H, Abufares B, Al-Oran A, Alkharabsheh MM, Haroon N, Ismail MA, Qaqish B, Zihlif M. Effects of CYP2B6 Genetic Variants on the Propofol Dose and Response among Jordanian Arabic Patients Undergoing General Anesthesia. *Curr Drug Metab*. 2023;23(14):1156-1161.

Imraish A, Abu-Thiab T, Alhindi T, Zihlif M (2022) GSDM gene polymorphisms regulate the IgE level in asthmatic patients. *PLoS ONE* 17(10): e0274951.

Zihlif, Malek, Otoum, Suhad, Al Shhab, Mohammad, Almadani, Zaid, Momani, Monther, Alhawari, Hussam, Esraa jibrini, Jarrar, Yazun, Al-ameer, Hamzeh and **Imraish, Amer**. "No association between LDL receptor and CETP genetic variants and atorvastatin response in Jordanian hyperlipidemic patients" *Drug Metabolism and Personalized Therapy*, vol. 37, no. 4, 2022, pp. 369-374.

Wajdy J Al-Awaida, Baker Jawabrah Al Hourani, Samer Swedan, Refat Nimer, Foad Alzoughool, Hamzeh J Al-Ameer, Sara E Al Tamam, Raghad Alashqar, Yulia Gushchina, Mohamed Samy Abousenna, Amani Marwan Ayyash, Ahmad Sharab, Sulaiman M Alnaimat, **Amer Imraish**, Muhanad W Akash, Najah R Hadi. 2021. Correlates of SARS-CoV-2 variants on deaths, case incidence and case fatality ratio among the continents for the period of 1 december 2020 to 15 march 2021. *Genes*. 12(7) 1061.

Amer Imraish, Tuqa Abu Thiab, Wajdy Al-Awaida, Hamzeh J Al-Ameer, Yasser Bustanji, Hana Hammad, Mays Alsharif, Afnan Al-Hunaiti. 2021. In vitro anti-inflammatory and antioxidant activities of ZnFe₂O₄ and CrFe₂O₄ nanoparticles synthesized using *Boswellia carteri* resin. *Journal of Food Biochemistry*. e13730.

Amer Imraish, Tuqa Abu-Thiab, Malek Zihlif. 2021. IL-13 and FOXO3 genes polymorphisms regulate IgE levels in asthmatic patients. *Biomedical Reports*. 14(6), 1-7.

Malek Zihlif, **Amer Imraish**, Baeth Al-Rawashdeh, Aya Qteish, Raihan Husami, Rawand Husami, Farah Tahboub, Yazun Jarrar, Su-Jun Lee. 2021. The Association of IgE Levels with ADAM33 Genetic Polymorphisms among Asthmatic Patients. *Journal of Personalized Medicine*. 11(5), 329.

Imraish A, Al-Hunaiti A, Abu-Thiab T, Ibrahim A, Hwaitat E, Omar A. 2020. Phyto-Facilitated Bimetallic ZnFe₂O₄ Nanoparticles via *Boswellia carteri*: Synthesis, Characterization and Anti-Cancer Activity. *Anticancer Agents Med Chem*. 21, 1-6.

Hammad H, **Imraish A**, Al-Hussaini M, Zihlif M, Harb A, Abu Thiab T, Lafi Z, Nassar Z, Afifi F. 2020. Ethanol Extract of *Achillea fragrantissima* Enhances Angiogenesis through Stimulation of VEGF Production. *Endocrine, Metabolic & Immune Disorders - Drug Targets*. 10.2174/1871530321666201230113018.

Khalil R, Al-Awaida W, Al-Ameer H, Jarrar Y, **Imraish A**, Al bawareed O, Qawadri R, Al Madhoun F, Obeidat L. 2020. Investigation of ACE rs4646994, MTHFR rs1801133 and VDR rs2228570 Genotypes in Jordanian Patients with Fibromyalgia Syndrome. *Endocrine, Metabolic & Immune Disorders - Drug Targets*. 10.2174/1871530321666201223104622.

Al khalyfeh K, Taher D, Helal W, Kor M, Hamadneh I, Al-dujaili A, **Imraish A**, Hammad H, Al-as'ad R, Abu-orabi S, Hildebrandt A and Lang H. 2020. Synthesis and characterization of 1,4-chalcogenesters bearing 3 5-membered heterocycles. *Journal of Chemical Sciences*. 132 (1), 1-16

Alsalem M, Altarifi A, Haddad M, Azab B, Kalbouneh H, **Imraish A**, Saleh T and El-Salem K. 2020. Analgesic Effects and Impairment in Locomotor Activity Induced by Cannabinoid/Opioid Combinations in Rat Models of Chronic Pain. *Brain Sci*. 2020, 10, 0523.

Habahbeh S, **Imraish A**, Zihlif M. 2020. The crosstalk between adenosine A2B receptor and insulin signalling in rat skeletal muscle cells. *Biologia Futura*. 71, pages 283–288.

Hammad HM, **Imraish A**, Azab B, Best AM, Khader YS, Zihlif M. 2019. Associations of CYP2A6 gene polymorphism with smoking status among Jordanians: gender-related differences. *Current Drug Metabolism* 20 (9), 765-770.

Wajdy J Al-Awaida, Malek A Zihlif, Hamzeh J Al-Ameer, Ahmad Sharab, Muhanad Akash, Zaid A Aburubaiha, Isam A Fattash, **Amer Imraish**, Khedhir H Ali. 2019. The effect of green tea consumption on the expression of antioxidant-and inflammation-related genes induced by nicotine. *Journal of food biochemistry* 43 (7), e12874.

Mohammad Alsalem, Mansour Haddad, Sara A Aldossary, Heba Kalbouneh, Belal Azab, Aala Dweik, **Amer Imraish**, Khalid El-Salem. 2019. Effects of Dual Peroxisome Proliferator-Activated Receptors and Activation in Two Rat Models of Neuropathic Pain. *PPAR Research*. Volume 2019, Article ID 2630232, 9 pages.

Rjoub M, Saleh A, Hakooz N, **Imraish A**, Jarrar Y, Zihlif M. 2018. Allelic frequency of PON1 Q192R, CYP2C19*2 and CYP2C19*17 among Jordanian patients taking clopidogrel. *Tropical Journal of Pharmaceutical Research*. 17(11); 2275-2280.

Hakooz N, Jarrar YB, Zihlif M, **Imraish A**, Hamed S, Arafat T. 2017. Effects of the genetic variants of organic cation transporters 1 and 3 on the pharmacokinetics of metformin in Jordanians. *Drug Metab Pers Ther*. 32(3):157-162.

Kwok, C. H., Devonshire, I. M., **Imraish, A.**, Greenspon, C. M., Lockwood, S., Fielden, C., Cooper, A., Woodhams, S., Sarmad, S. Ortori, C. A., Barrett, D. A., Kendall, D., Bennett, A. J., Chapman, V., & Hathway, G. J. 2017. Age-dependent plasticity in endocannabinoid modulation of pain processing through postnatal development. *Pain*, 158, 2222.

Habashneh AY, El-Abadelah MM, Zihlif MA, **Imraish A**, Taha MO. 2014. Synthesis and Antitumor Activities of Some New N1-(Flavon-6-yl) amidrazone Derivatives. *Arch. Pharm. Chem. Life Sci*. 347, 1–8.

Zihlif M, **Imraish A**, Irshaid YM. 2012. Frequency of Certain Single-Nucleotide Polymorphisms and Duplication of CYP2D6 in the Jordanian Population. *Genetic Testing and Molecular Biomarkers*. 16(10), 1201-1205.

Zihlif MA, Mahmoud IS, Ghanim MT, Zreikat MS, Alrabadi N, **Imraish A**, Odeh F, Abbas MA, Ismail SI. 2012. Thymoquinone efficiently inhibits the survival of EBV infected B cells and alters EBV gene expression. *Integrative Cancer Therapies*. 12(3), 257-263.

CONFRENCES AND PRESENTATION

Current and Emerging Trends in Zebrafish Biomedical Research. The First Qatar International Zebrafish Workshop, Doha, Qatar 13-17 April 2019.

3rd International Symposium on Frontiers in Molecular Science – RNA Regulatory Networks (Lisbon, June 2019)

The 15th Middle East Best of San Antonio Breast Cancer Symposium & Workshop 5 – 7 February, 2021 / Al Faisal University, Riyadh.

Age-Related Changes in the Phenotype of Spinal Microglia
Presented at the Neuroinflammation: Concepts, Characteristics, Consequences (E5), Keystone, USA, June, 2017.

Age-related changes in the function and phenotype of microglia in the spinal Cord
Presented at Life Sciences Postgraduate Symposium, Nottingham, UK, July, 2017

Age-Related Changes in the Phenotype of Spinal Microglia
Presented at the Cambridge Neuroscience Seminar- The Inflamed Brain, Cambridge, UK, March, 2017.

Age-related changes in the function and phenotype of microglia in the spinal cord
Presented at Life Sciences Postgraduate Symposium, Nottingham, UK, July, 2016

SUPERVISION

PhD project titled: “The Role of Autophagy in Different Types of Cancer: A Potential Therapeutic Strategy for Cancer by Targeting Autophagy” The University of Jordan. Department of Biological Sciences. Jordan 2023

PhD project titled: “Associations of SNAIL gene Polymorphism with Vitamin D deficiency among Jordanian Asthmatic patients” The University of Jordan. Department of Biological Sciences. Jordan 2023

MSc project titled: “Development of Peptide Nucleic Acid for Breast Cancer Therapy” The University of Jordan. Department of Biological Sciences. Jordan 2023

PhD project titled: “Biological activities and metabolite analysis of the ethanolic extract of marine sponges” The University of Jordan. Department of Biological Sciences. Jordan 2023

PhD project titled: “Potential anticancer and antibacterial effects of ethanolic extracts from marine sponges and coral” The University of Jordan. Department of Biological Sciences. Jordan 2023

MSc project titled: “The potential anti-inflammatory effect of nano-encapsulated indole derivatives as nurr1 activators in microglia” The University of Jordan. Department of Biological Sciences. Jordan 2022

MSc project titled: “In vitro Effects of Zinc Oxide Bimetallic Nanoparticles Synthesized with Aqueous Leaves Extract of *Elaeagnus angustifolia* L on Anti-angiogenesis and Cell Migration”. The University of Jordan. Department of Biological Sciences. Jordan 2020

B.SC. project titled: “Anti-oxidant activities of new Cu-based inorganic complexes”. The University of Jordan. Department of Biological Sciences. Jordan 2020

B.SC. project titled: “Anti-oxidant activities of new Fe-based inorganic complexes”. The University of Jordan. Department of Biological Sciences. Jordan 2020

GRANTS

- Amer Imraish.

Establishment of microglial model to investigate cellular inflammatory responses to purinergic receptors inhibitors. Grant awarded by Deanship of Academic Research (April 2019). The University of Jordan.

- Amer Imraish.

The impact of cerebrospinal fluid from multiple sclerosis patients on the activation of microglia and astrocytes. Grant awarded by Deanship of Academic Research (August 2020). The University of Jordan.

- Amer Imraish.

Developing of HNF4alpha and PFKFB4 siRNAs encapsulated nanoliposomes and testing their anti-proliferative effect on hepatocellular carcinoma. Grant awarded by Scientific Research and Innovation Support Fund, Ministry of Higher Education & Scientific Research. (June 2020). The University of Jordan.

-Amer Imraish.

Investigating the effect of hypoxia on fibroblast cells using RNA sequencing. Grant awarded by Deanship of Academic Research (November 2023). The University of Jordan.

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