

## CURRICULUM VITAE

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### 1. Personal Data

Date of Birth: 07/Dec/1990

Nationality: Jordanian

### 2. Education

- Ph.D. (in Pharmacology) 2017, The University of Manchester, Manchester, United Kingdom
- B.Sc. (in Pharmacy and Pharmaceutical sciences) 2012, Al-Zaytoonah University of Jordan, Amman, Jordan

### 3. Ph.D. Dissertation

- *The Role of NQO2 in Tumour Growth and Response to Therapeutic Drugs,* University of Manchester, Manchester, United Kingdom.

### 4. Employment

#### Academic Positions

- Assistant Professor, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman-Jordan (2017- now)
- Instructor, Faculty of Biology, Medicine and Health, The University of Manchester, Manchester-United Kingdom, 2014-2016



## 5. Research Interests

- Investigation the biological roles of the oxidoreductase enzymes in the cancer cells and their involvement in the progression of cancer.
- Identifying and developing new uses for existing drugs
- Biochemical evaluation and identification the mechanism of action of novel compounds.

## 6. Membership in Scientific Societies and Associations

- Jordan Pharmacists Association (2012-now)
- Member of British Association for Cancer Research (2013-now).

## 7. Fellowships and Scholarships

- Academic PhD scholarship from Al-Zaytoonah University of Jordan, (2013-2017)

## 9. Teaching Experience

- *Undergraduate Courses*

1. Pathophysiology for Pharmacists and nursing
2. Pharmacology 1
3. Pharmacology 2
4. Pharmacy Practice II
5. Pharmacology Lab
6. Pathophysiology Lab
7. Legislations and Pharmaceutical Ethics

## 10. Grants

1. Investigating the putative effects of beta-adrenergic receptor blocking drugs on the activity of aldehyde dehydrogenases (ALDH) in a panel of lung cancer cell lines, 2020, وزارة التعليم العالي والبحث, صندوق دعم البحث العلمي والابتكار, 41,260.

## 11. Membership of Committees

- **University**

- The ACPE Steering Committee, a Faculty committee (2018-now).
- The committee of quality assurance (2017-2019).
- The committee of exams and evaluations (2017-2018).
- The committee of cultural, social and sports activities (2017-2019).
- The committee of curriculum and learning resources (2020-now).
- A member of the Committee for Curricular Equivalence and Academic



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Advisement, and Training, and Alumni Follow-up (2021-2022).

## 12. Professional and Scientific Meetings

### • *Participation in Scientific meetings*

1. *The Potential Role of the Oxidoreductase, NQO2 in Cancer therapeutics, NCRI Cancer conference, Liverpool, UK, 2014.*
2. *Synthesis and Evaluation of Novel 4-aminoquinoline Analogues as NQO2 Inhibitors, in 7<sup>th</sup> international conference on Drug discovery & Therapy, Sharjah, UAE, 2016.*
3. *Participating in OSCE training workshop, 2019.*
4. *Participating and awarding a certificate from HPLC training course, 2019.*
5. *Participating in Pharmacogenomics testing: toward personalised therapy, 2019.*
6. *Participating in International Pharmaceutical Conference (ZTIPC2019), 2019.*
7. *Participating in OSCE training workshop, 2022.*

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

- *World Cancer Day for inspiring A-level students about our research, 2015.*
- *Evaluation and critical assessment of two scientific research proposals from Jordan Journal of Pharmaceutical Sciences, Jordan, 2022*

## 14. Publications

### 2. Papers in refereed journals:

- *Hussein B., **Ikhmais B.** (equal contribution), Kadirve M.I, Magwaza R., Halbert G, Bryce R, Stratford I, Freeman S. Discovery of potent 4-aminoquinoline hydrazone inhibitors of NRH:quinoneoxidoreductase-2 (NQO2), European Journal of Medicinal Chemistry, 182, 2019, 1-11.*
- ***Balqis Ikhmais**, Alaa M. Hammad, Waleed Qirim, Osama H. Abusara, Jonathan Ling. Conducting a COVID-19-Related Research in Jordan: Are We Ready? Disaster Medicine and Public Health Preparedness, 16(3), 2021, 967-974.*
- *Ali I. M. Ibrahim, **Balqis Ikhmais**, Elisabet Batlle, Waed K. AbuHarb, Vibhu Jha, Khaled T. Jaradat, Rafael Jiménez, Raquel Pequerul, Xavier Parés, Jaume Farrés and Klaus Pors. Synthesis, Biological Evaluation and In Silico Study of Benzyloxybenzaldehyde Derivatives as Selective ALDH1A3 Inhibitors, Molecules, 2021, 26(19), 5770.*



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- Ibrahim, Ali I. M., Hassan Abul-Futouh, Laurance M. S. Bourghli, Mohammad Abu-Sini, Suhair Sunoqrot, **Balqis Ikhmais**, Vibhu Jha, Qusai Sarayrah, Dina H. Abulebdah, and Worood H. Ismail. Design and Synthesis of Thionated Levofloxacin: Insights into a New Generation of Quinolones with Potential Therapeutic and Analytical applications, *Current Issues in Molecular Biology*, 2022, 44(10), 4626-4638.
- R. ABU KHALAF, D. SABBAH, E. AL-SHALABI, **B. IKHMAIS**, W. NASER AND G. ALBADAWI. Fluorinated Benzyloxalamides: Glide Docking, Pharmacophore Mapping, Synthesis and In Vitro Evaluation as Potential Cholesteryl Ester Transfer Protein Inhibitors, *Indian J Pharm Sci* 2022;84(6),1476-1487.
- Buchra Haj Hussein, Violet Kasabri, Yusuf Al-Hiari, Shereen Arabiyat, **Balqis Ikhmais**, Sundus Alalawi, Tareq Al-Qirim. Selected Statins as Dual Antiproliferative-Anti-inflammatory Compounds, *Asian Pac J Cancer Prev*, 23 (12), 2022, 4047-4062.
- Worood H. Ismail, Osama H. Abusara, **Balqis Ikhmais**, Hassan Abul-Futouh, Suhair Sunoqrot, Ali I. M. Ibrahim. Design, Synthesis, and Biological Activity of Coniferyl Aldehyde Derivatives as Potential Anticancer and Antioxidant Agents, *Jordan J. Pharm. Sci.* 16 (2), 2023, 368-379.
- Basmah Al-Jammal, Buthaina Hussein, Yusuf Al-Hiari, Tareq Al-Qirim, Manal Al-Najdawi, Lama Hamadneh, Mohammad Alwahsh and **Balqis Ikhmais**. Synthesis of microwave-assisted carboxamides in Triton WR-1339-induced hyperlipidemic rats: possible hypolipidemic heterocyclic compounds, *RSC Adv.*, 13, 2023, 22193-22204.
- Rawan Shamsheer, Suhair Sunoqrot, Violet Kasabri, Dana Shalabi, Rema Alkhateeb, Yusuf Alhiari, Riad Ababneh, **Balqis Ikhmais**, Hamza Abumansour. Preparation and Characterization of Capsaicin Encapsulated Polymeric Micelles and Studies of Synergism with Nicotinic Acids as Potential Anticancer Nanomedicines, *Journal of Pharmacy And Bioallied Sciences*, 15 (3), 2023, 107-125.
- **Balqis A. Ikhmais** \*, Alaa M. Hammad, Osama H. Abusara, Lama Hamadneh, Hamza Abumansour, Qasem M. Abdallah, Ali I. M. Ibrahim, Lina Elsalem, Mariam Awad and Rahaf Alshehada. Investigating Carvedilol's Repurposing for the Treatment of Non-Small Cell Lung Cancer via Aldehyde Dehydrogenase Activity Modulation in the



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*Presence of  $\beta$ -Adrenergic Agonists, Current Issues in Molecular Biology, 45 (10), 2023, 7996–8012.*

### 3. Conference Presentations:

- *Presenting a poster titled “Attitudes of Community Pharmacist toward Patient Counselling” in fourteenth pharmacy conference: Contemporary Challenges to the Profession of Pharmacy, Amman, Jordan, 2012.*
- *Presenting a poster titled “Evaluating Novel 4-aminoquinoline Inhibitors of NQO2 in Ovarian Cancer” in AACR annual meeting, New Orleans, Louisiana, USA, 2016.*
- *Presenting a poster titled “The Contributory Role of NQO2 in Inducing Ovarian Cancer Cell Growth and Proliferation” in Nottingham, United Kingdom, UK, 2017.*
- *Participating in an oral presentation titled “The impact of genetic manipulation of NRH quinone oxidoreductase-2 levels on growth and proliferation of ovarian cancer cell lines”, Istanbul, Turkey, 2019.*
- *Presenting in an oral presentation in 2<sup>nd</sup> international conference on Pharmaceutical Sciences, 2020.*