

CURRICULUM VITAE

Dr Rawan Nayef Zaal AlKaraki, PhD
Assitant Professor of Pharmaceutics



1 ADDRESS AND PERSONAL INFORMATION

1.1 ADDRESS:

Department of Pharmaceutic and Pharmaceutical Technology
Faculty of Pharmacy
Mutah University
Karak, 61710 – Jordan
(Office) +962 32375540
(Mobile) +962 799402154
E-Mail: r.karaki@mutah.edu.jo / r.k.pharmacist2002@gmail.com

1.2 PERSONAL INFORMATION

Date of Birth: October 31st, 1979
Nationality: Jordanian
Marital Status: Married

2 EDUCATION

2.1 PH.D. IN PHARMACEUTICAL SCIENCE

Jan 2017, Faculty of Pharmacy, University of Jordan, Amman, Jordan.

2.2 MSc. IN PHARMACEUTICAL SCIENCE

Jun 2009, Faculty of Pharmacy, University of Jordan, Amman, Jordan.

2.3 B.Sc. IN PHARMACY

Jun 2002, Faculty of Pharmacy, University of Jordan, Amman, Jordan.

2.4 GENERAL SECONDARY CERTIFICATES

June 1997, Alkarak Secondary School, Karak, Jordan.

3 PROFESSIONAL EXPERIENCE

3.1 ASSISTANT PROFESSOR OF PHARMACEUTICS

Feb 2017 – present: Department of Pharmaceutics and Pharmaceutical Technology/ Faculty of Pharmacy /Mutah University, Karak, Jordan.

Duties: Teaching Pharmacy students a number of courses related to Pharmaceutics such as: Physical Pharmacy, Pharmaceutical calculations and compounding, Pharmacokinetics, Pharmacokinetics Workshops, Pharmaceutics, Pharmaceutical Regulatory Affairs, Bio-risk Management, Pharmaceutical Technology, Advanced Physical Pharmacy (Graduate students).

3.2 DEPARTMENT CHAIR

Sep 2017 – Sep 2020: Department of Pharmaceutics and Pharmaceutical Technology/
Faculty of Pharmacy /Mutah University, Karak, Jordan.

Duties: Overall responsibility for teaching and learning, achievement and attainment within the department. Organization of the delivery of the subject in the school. To contribute to the development and maintenance of whole school strategy, policies and ethos.

3.3 MEMBER, COMMITTEE FOR THE REGISTRATION OF GENERIC PRODUCTS, JFDA

Oct 2015 – May 2016 and Oct 2011 – May 2013: Jordan Food and Drug Administration (JFDA), Amman, Jordan.

Duties: A member of the technical JFDA committee for the registration of generic products

3.4 FULL-TIME LECTURER

Jan 2010 – Sep 2012: Faculty of Pharmacy /University of Jordan, Amman, Jordan

Duties: Organizing and teaching several undergraduate pharmacy practical courses such as: Phytochemistry, Pharmacognosy, Organic Chemistry, Analytical Chemistry.

3.5 RESEARCH ASSISTANT

Sep 2007 – May 2008: Faculty of Pharmacy /University of Jordan, Amman, Jordan

Duties: Development and validation of analytical methods for measurement of drugs by LC/UV.

3.6 TEACHING ASSISTANT

Sep 2002 – Aug 2007: School of Pharmacy /University of Jordan, Amman, Jordan

Duties: Organizing and teaching several undergraduate pharmacy practical courses such as: Physical Pharmacy, Pharmaceutical Organic Chemistry, Pharmaceutical Analytical Chemistry, Pharmaceutical Instrumental Analysis

4 FUNDING AND AWARDS

4.1 AWARDS

- **Jordanian Scientific Research Support Fund** for graduate students; M. Sc.; 2007-2009.
- **Best Poster Presentation Award**; 14th Jordanian Pharmacy Conference: Contemporary Challenges for the Pharmacy Profession; 2012.
- **Jordanian Scientific Research Support Fund** for graduate students; Ph.D.; 2012-2015.

4.2 RESEARCH AWARDED FUNDS

- **King Abdullah II Fund for Development Award**, Research and Innovation Support Program for University Students – RISP, principal co-supervisor, Title of the research is: Exploring the Unique Anti-Cancer Properties of Curcumin Nanoparticles, Fund amount is 2850 JD.
- **King Abdullah II Fund for Development Award**, Research and Innovation Support Program for University Students – RISP, principal supervisor, Title of the research is: Assessment of Antimicrobial Activity of Ginger Extract Loaded in Different Nano-Systems, Fund amount is 5000 JD.

5 SUPERVISED RESEARCH:

- Co-advising an undergraduate research project: Exploring the Unique Anti-Cancer Properties of Curcumin Nanoparticles. Faculty of Pharmacy Mutah University, 2018-2019
- Advising an undergraduate research project: Assessment of Antimicrobial Activity of Ginger Extract in Different Nano-Delivery Systems. Faculty of Pharmacy Mutah University, 2019-2020
- Advising a master thesis entitled: Fabrication and Characterization of Minocycline-loaded Patches to Combat Microbial Skin Infections. Faculty of Pharmacy Mutah University, 2022
- Co-advising a master thesis entitled: Repurposing of selected pharmaceutical agents for antimicrobial activities. Faculty of Pharmacy Mutah University, 2022
- Advising an undergraduate research project: A Novel Reversed-phase High-performance Liquid Chromatography Method for Determination of Tolperisone-loaded Liposome Formulation. Faculty of Pharmacy Mutah University, 2022
- Advising an undergraduate research project: Design, Characterization, and In Vivo Evaluation of Tolperisone liposomes. Faculty of Pharmacy Mutah University, 2022

6 INTERNATIONAL CERTIFICATIONS:

- International Certification in Biorisk Management (IFBA Certified Professional), 3th April 2019 valid for a period of 5 years.
- International Certification in Biological WasteManagement (IFBA Certified Professional), 13th September 2019 valid for a period of 5 years.

7 PROFESSIONAL PUBLICATION:

- **R. Al-Karaki**, A. Awadallah, M. Saleh, M. Nasr, “Novel Oleuropein Nanocapsular Formulation: Preparation, Characterization and Anticolon Cancer Activity”, Journal of Applied Pharmacy, 11, pp. 1-8, 2019.

- Awadallah, **R. Al-Karaki**, M. Nasr, "Potentiation of The Cytotoxic Activity of Meloxicam Against Cox-2 Negative Colon Cancer Cells by Nanoparticulate Encapsulation", *Journal of Applied Pharmacy*, 11, pp. 9-17, 2019.
- M. Nasr, A. Awadallah, **R. Karaki**, F. Madanat, L. Alsunna, Kh. Sami, Z. Ibrahim, O. Makhlof and R. Almajali, "Exploring the unique anticancer properties of curcumin nanoparticles", *Clinical Oncology and Research*, 2(3), pp. 1-5, 2019.
- E. Dokla, N. Abutaleb, S. Milik, D. Li, K. Elbaz, M. Shalaby, **R. Karaki**, M. Nasr, C. D. Klein, K. Abouzid, M. Seleem "Development of benzimidazole-based derivatives as antimicrobial agents and their synergistic effect with colistin against gram-negative bacteria", *European Journal of Medicinal Chemistry*, 186, 2019
- **R. Al-Karaki**, A. Awadallah, H. Tawfeek, M. Nasr, "Preparation, Characterization and Cytotoxic Activity of New Oleuropein Microemulsion Against HCT-116 Colon Cancer Cells", *Pharmaceutical Chemistry Journal*, 53(12), pp. 1118-1121,2020
- M. Nasr, **R. Al-Karaki**, "Nanotechnological innovations enhancing the topical therapeutic efficacy of quercetin: A succinct review", *Current Drug Delivery*, 17, 2020
- Saied M. I. Al-Dalaen, Abdul-Wahab R. Hamad, Fawaz Al-Saraireh, Rawan Nayef Alkaraki, Mousa Khames Mezel Magarbeh and Fahil M. Abid, "Bioavailability and Bioequivalence of Allopurinol in Two Tablet Formulations", *Biomedical and Pharmacology Journal*, 13(2), pp. 789-798, 2020
- I. Rashid¹, R. Haddadin, A. Alkafaween, **R. Alkaraki**, R. Alkasasbeh, "Understanding the implication of Kawakita model parameters using in-die force displacement curve analysis for compacted and non-compacted API powders", *American Association of Pharmaceutical Scientists Journal*, 8, 2022
- **Rawan Karaki**, Mohammad Hailat, Israa Al-Ani, Zainab Zakaraya, Lina N.Tamimi, Sina M. Matalqah, Rehan Al-Kasasbeh,Wael Abu Dayyih, Mohammed Hamad, "Effects of Liquorice Juice on the Pharmacokinetics of Esomeprazole" *Journal of Population Therapeutics & Clinical Pharmacology*, 30 (3), 673-681, 2023

8 ATTENDED CONFERENCES, WORKSHOPS AND MEETINGS

- **Al-Karaki, Rawan N.**, Al-Khatib, Hatim S. and Mohammad, Mohammad K; Preparation of Sulfated Chitosan: Its Physical Characterization and Biological Safety; The Second Graduate Studies Research Conference, October, 2009. Amman, Jordan (Speaker)
- Scientific Course covering Biosimilars Subject, The Professional Career Development And Pharmaceutical Continuous Education (PCD-PCE) Committee, Jordan Pharmacists Association JP, 24th March, 2012
- Scientific Course covering Stem Cells Subject, The Professional Career Development And Pharmaceutical Continuous Education (PCD-PCE)Committee, Jordan Pharmacists Association JP, 17th March, 2012
- Al-Karaki, Rawan N., Al-Khatib, Hatim S. and Mohammad, Mohammad K; Preclinical Safety Studies for Sulfated Chitosan ; 14th Jordanian Pharmacy Conference: Contemporary Challenges for the Pharmacy Profession, April, 2012, Amman, Jordan (Poster)

- Harmonizing the assessment process of generic dossiers and improving the quality of assessment, 8th -9th August, 2015(Participation)
- Seminar for Purification and Formulation Solutions, Sena Establishment for Laboratory Equipment Trading by Experts from BUCHI Company, 4th of February 2018 (Participation)
- L'Oréal-UNESCO For Women in Science Introductory Meeting, University of Jordan, 13th of March 2018
- Towards a Distinguished Pharmaceutical Training, Applied Science Private University, Faculty of Pharmacy, 31th of March 2018 (Participation)
- Modern Techniques in Pharmaceutical Sciences, The First International Conference at Faculty of Pharmacy, Mutah University, 19th - 20t April 2018 (Organization, session moderator).
- Poloxamers 338 and 335 mixed micelles as inhibitors of human Pgp and NorA efflux pumps of Staphylococcus aureus: reversing the resistance against ciprofloxacin antibacterial drugs, Modern Techniques in Pharmaceutical Sciences, The First International Conference at Faculty of Pharmacy, Mutah University, 20th April 2018
- Personal Development Leadership Workshop, arranged by Queen's University Belfast, 19th July 2018
- Biorisk Management (BRM) Curriculum Development Workshop, Arranged by the U.S. Department of State Biosecurity Engagement Program, Sandia National Laboratory, Royal Scientific Society, and Jordan University of Science and Technology, 12th - 16th August 2018
- Roadmap to Biorisk Management Implementaon - Advanced Biorisk Management with Biosafety Officer Training (MENA - ABOT 3) session 1, sponsored by the U.S. State Department Biorisk Engagement Program (BEP) and the Elizabeth R. Griffin Program (ERGP) at the Georgetown University Medicine Center, 10-14 September 2018, Malta
- Active Pedagogical Techniques in Higher Education: Combining Multidisciplinary Learner-Centered Educational Experiences from Egypt, Germany, Malaysia, and the United State, 3-4 October 2018, Mutah University (Organization and Attending).
- 1st Queen's University Belfast-Jordan Research Forum (QUBJRF), a highly Specialised Research Symposium in Healthcare, Pharma and Agri-Food, 8-9 January 2019,, Amman Al Ahliyyah
- Jordan Curriculum Development Technical Preparation Workshop, Arranged by the U.S. Department of State Biosecurity Engagement Program, Sandia National Laboratory, Royal Scientific Society, and Jordan University of Science and Technology, 15-17 January 2019
- A preparatory course for IFBA professional certification examination on Biorisk Management System Workshop, Arranged by Tunisian Association for Biosafety & Environmental Education (ATB2E,) Tunis, 4th – 5th April 2019

- 2nd Annual Biorisk Management Symposium BIORIM 2019, Arranged by Tunisian Association for Biosafety & Environmental Education (ATB2E,) Tunis, 6th – 7th April 2019
- Recent Advances in Treatment of Cancer and Diabetes, The First International Symposium at Faculty of Pharmacy, Mutah University, 24th - 25th April 2019 (Organization, Participation).
- Professional Development Course on BSL-3 Operations and Management, Arranged by The Association for Biosafety and Biosecurity (ABSA International) Birmingham, Alabama, USA, 15th November 2019
- Professional Development Course on Case Studies in Biocontainment Emergencies, Arranged by The Association for Biosafety and Biosecurity (ABSA International) Birmingham, Alabama, USA, 16th November 2019
- Professional Development Course on Introduction to Biosafety in the Clinical Setting, Arranged by The Association for Biosafety and Biosecurity (ABSA International) Birmingham, Alabama, USA, 16th November 2019
- Professional Development Course on Biosecurity in Academic Institutions, Arranged by The Association for Biosafety and Biosecurity (ABSA International) Birmingham, Alabama, USA, 17th November 2019
- 62nd Annual Biosafety and Biosecurity Conference, Birmingham, Alabama, U.S.A., 18 th - 20 th November 2019
- Biorisk Management (BRM) Curriculum Development Training, Arranged by the U.S. Department of State Biosecurity Engagement Program, Sandia National Laboratory, Royal Scientific Society, and Jordan University of Science and Technology, 6th - 10th February 2022

9 REVIEWER RESPONSIBILITIES

- **Jordan Journal of Pharmaceutical Science**, from September 2022 until now.

REFERRERS WILL BE PROVIDE UPON REQUEST