

Curriculum Vitae

DR. Rehan Alkawasbeh, BSc., MSc., PhD

Personal Information

Full name: Rehan Mohammad Yousef Alkawasbeh

Current position: Assistant professor of pharmaceutics and pharmaceutical technology

Work Address: Department of pharmaceutics and pharmaceutical technology

School of Pharmacy

Mutah University

Alkarak-Jordan

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Education

Jan. 2016 – Jan. 2019 PhD in Pharmacy, Faculty of pharmacy, Queens university Belfast, UK

Thesis Title: "evaluation of hydrogel-forming microneedles for the delivery of high dose low molecular weight drugs".

Sept. 2011 – Feb. 2014 MSc. in Clinical Pharmacy, School of pharmacy, The University of Jordan, Jordan. GPA 3.97 out of 4.00 (Distinction)

Thesis Title: "Evaluation of Safety and Uptake Mechanism of a Micellar Drug Delivery System Based on poly (ethyleneoxide) - b- poly (propyleneoxide) (PEO- b -PPO) copolymers using Caco-2 cell culture model".

Sept. 2005 – June 2010 BSc. Pharmacy, School of pharmacy, The University of Jordan, Jordan
GPA 3.89 out of 4.00 (Distinction).

Sept. 2004 – Aug. 2005 General Secondary Education Certificate Examination, Scientific stream, Jordan Grade 92.5%, (Distinction).

Professional Experience

- **Sep.2020- Sep. 2021: Head of the pharmaceuticals and pharmaceutical technology department** School of Pharmacy, Mutah University, Alkarak, Jordan
- **March.2019 – Present Assistant Professor of pharmaceuticals and pharmaceutical technology**
- School of Pharmacy, Mutah University, Alkarak, Jordan
- Undergraduate Taught courses: pharmaceuticals, Drug delivery systems, Pharmaceutical quality assurance and control, industrial pharmacy, industrial pharmacy practical.
- Post graduate taught courses: advanced drug delivery
- **Dec. 2011 – Jan.2016: department of work injuries,** Social security corporation, amman, Jordan.
- **Jul. 2010 – sep. 2011: pharmacist,** New Mutah pharmacy, Alkarak, Jordan
- Advising a master thesis entitled: Preparation and characterization of liposomal Ondansetron HCl transdermal patch. Faculty of Pharmacy Mutah University, 2023
- Co- Advising a master thesis entitled: Fabrication and Characterization of Minocycline loaded Patches to Combat Microbial Skin Infections. Faculty of Pharmacy Mutah University, 2022
- Advising an undergraduate research project: evaluation of the effect of curcumin administration on the anti-proliferative activity of meloxicam anti-inflammatory drug-gene expression level. Faculty of Pharmacy Mutah University, 2022
- Co- 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

Awards and Scholarships

2016-2019: PhD Full Scholarship, From the University of Jordan.

2011-2012 Scientific Achievement Scholarship for Outstanding Postgraduate Students, From Ministry of Higher Education, Jordan

Professional Memberships

2014 – Present American Association of Pharmaceutical scientists (AAPS),

2010 – Present Jordan Pharmaceutical Association (JPA).

Languages

- Arabic (Native language)
- English (Fluently spoken and written)

Research Interest

- Hydrogel drug delivery systems
- Transdermal drug delivery
- Delivery of cosmeceuticals
- Nanotechnology in drug delivery

Publications

1. Al-Kasasbeh, Rehan, Aaron J. Brady, Aaron J. Courtenay, Eneko Larrañeta, Maelíosa TC McCrudden, Donal O’Kane, Stephen Liggett, and Ryan F. Donnelly. "Evaluation of the clinical impact of repeat application of hydrogel-forming microneedle array patches." *Drug delivery and translational research* 10, no. 3 (2020): 690-705.
2. Larrañeta, Eneko, Sarah Stewart, Michael Ervine, Rehan Al-Kasasbeh, and Ryan F. Donnelly. "Hydrogels for hydrophobic drug delivery. Classification, synthesis and applications." *Journal of functional biomaterials* 9, no. 1 (2018): 13.
3. Karaki, Rawan, Mohammad Hailat, Israa Al-Ani, Zainab Zakaraya, Lina N. Tamimi, Sina M. Matalqah, Rehan Al-Kasasbeh, Wael Abu Dayyih, and Mohammed Hamad. "Effects of Liquorice Juice on the Pharmacokinetics of Esomeprazole." *Journal of Population Therapeutics and Clinical Pharmacology* 30, no. 3 (2023): 673-681.
4. Al-Halaseh, L. K., M. A. Sweiss, and R. A. Issa. "Nephroprotective Activity of Green Microalgae, *Chlorella sorokiniana* Isolated from Jordanian Water." *J Pure Appl Microbiol* 16, no. 4 (2022): 2775-2782.
5. Rashid, Iyad, Rula Raji Haddadin, Ashaar Abdulsalam Alkafaween, Rawan Nayef Alkaraki, and Rehan Mohammad Alkasasbeh. "Understanding the implication of Kawakita model parameters using in-die force-displacement curve analysis for compacted and non-compacted API powders." *AAPS Open* 8, no. 1 (2022): 1-20.
6. Karaki, R., Hailat, M., Al-Ani, I., Zakaraya, Z., Tamimi, L. N., Matalqah, S. M., ... & Hamad, M. (2023). Effects of Liquorice Juice on the Pharmacokinetics of Esomeprazole. *Journal of Population Therapeutics and Clinical Pharmacology*, 30(3), 673-681.

Conference Presentations

1. Al-Kasasbeh, R., Donnelly, R., 2017. Hydrogel-forming microneedle arrays allow the transdermal delivery of the low water solubility drug (valsartan). Proceedings of the 44th Annual Meeting and Exposition of the Controlled Release Society, Boston, USA.
2. Al-Kasasbeh, R., Donnelly, R., 2016. Evaluation of hydrogel forming microneedles as a method for sustained transdermal drug delivery. Proceedings of the 7th APS International PharmSci, Glasgow, UK.

Conferences, Workshops, and Training Courses Attended

1. Second middle east specialized nutrition virtual conference, **Dec/ 2020**, online.
2. School of pharmacy first international symposium, **April /2019**, Mu'tah university, alkarak, Jordan.
3. 2nd International Conference Pharmacy Mu'tah University "COVID-19 Pandemic Rearranges the Scientific Research Priorities ", **Feb/ 2021**, online.
4. First Annual Phage International Conference "the future applications of bacteriophages ", **March /2021**, online.
5. ACCP accreditation process, **Nov/ 2020**, online.
6. MS teams basic and advanced, **Dec/2020**, online.
7. teaching strategies and exam preparation, **Nov/2019**, Academic Development & Quality Assurance Center, Mu'tah university, Alkarak, Jordan.
8. The school of pharmacy 2021 conference "Recent updates in pharmacy and pharmaceutical sciences", April/2021, The university of Jordan.