



CURRICULUM VITAE

Dr. Ola Ali Salem Altarawneh

Associate Professor in Pharmaceutical Technology

Department of Pharmacy/Faculty of Pharmacy

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1. Personal Data

Nationality: Jordan

2. Education

- Ph.D. (Pharmaceutical technology) 2014, Queen's University of Belfast, Belfast, Northern Ireland, UK
- B.Sc. (Pharmacy) 2002, Al-Zaytoonah University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

The Manufacture and Characterisation of Hot Melt Extruded Bioactive Self-Cleansing Materials Designed to Reduce the Bacterial Colonisation and Encrustation Associated with Implanted Urinary Devices, Queen's University of Belfast, Belfast, Northern Ireland, UK

4. Employment

Academic Positions

- Associate Professor, Department of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
February, 13th 2020 - now

Administrative Positions

Dean's Assistant October 2023



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5. Research Interests

Pharmaceutics
 Formulation science
 Pharmaceutical technology
 Biomaterial and drug delivery
 Pharmaceutical analysis
 Material science
 Polymer chemistry

6. Membership in Scientific Societies and Associations

Jordan Pharmaceutical Association

7. Honors and Awards

Honored from the Chairman of the Board of Trustees of Al-Zaytoonah University of Jordan in **acknowledgement of contribution** in the first award of Quality Assurance Certificate from “Accreditation and Quality Assurance Commission of Higher Education Institutions in Jordan”, 2017.

8. Fellowships and Scholarships

PhD Scholarship from Al-Zaytoonah University of Jordan (2010 - 2013).

9. Teaching Experience

- *Graduate Courses*
 - Advanced Pharmaceutical Technology
 - Advanced Drug Delivery Systems
- *Undergraduate Courses*
 - Physical Pharmacy
 - Pharmaceutics 1
 - Pharmaceutics 2
 - Pharmaceutics 3
 - Pharmaceutical Technology
 - Cosmetics preparations
 - Pharmaceutics 3_Peactical Course
 - Practical Pharmaceutical Technology
 - Pharmaceutical Calculations
 - Pharmaceutical Professional Practice

10. Supervision of Graduate Research

- Sara Almasri, The Effect of Combined Polymer Types and Their Mechanical Properties on Alpha-Arbutin Dissolved Microneedles, 2023
- Heba Sami, Preparation and Characterization of Orodispersible and Orodissolvable Polymeric Films: Effect of Polymer Type and Combination on Drug Release Rate,2023



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- Alghadeer Alshammary, Use of combined polymers in microneedles manufacture: effect of polymer type and permeation enhancers on Thermal and mechanical properties, 2023
- Aisha Kannan, An Investigation on Loading Combined Medications in Polymeric Films: Effect of Drug Load and Polymer Type, 2022
- Wala Mubarak, Synthesis and Characterization of Cellulose-Hydrogel nano metal oxide composite for medical applications, 2021
- Hadeel Abu Mahfouz: Development and Characterization of Biomaterial Used in Urinary Catheter to Minimize Microbial Adherence, 2021
- Wasan Alwahsh: Development of Biomaterial Used in Urinary Catheter to Prevent Microbial Adhesion: Effect of Drug Type, 2020
- Rana Hassan Sejare, In vitro characterization of model drugs (Aspirin and Candesartan Clexetile): Comparison between simulated physiologic conditions and pharmacopeial requirements, 2019
- Amal Yousef Bargash, Characterization of Medical Platforms to Reduce the Bacterial Adhesion Associated with Dental Implants, 2019.
- Sanabel Omar Dawabsheh, Bioavailability of Fluoroquinolones in Human Aqueous Humor, April, 2018.
- Ala'a AbuRezeq, Development and Optimization of Hydrogels, Oleogels, and Bigels as Topical Drug Delivery Systems for Periodontitis, January, 2017
- Aya Sadat Alsadi, Influence of Polymer Type and Its Molecular Weight on the Release of Quercetin from Polymeric Micelles, July, 2016
- Ali Mahmoud Jasim, The Effect of Polymer Type, Ratio and Viscosity Grade on the in Vitro Release of Quetiapine Fumarate, a BCS Class II Drug, from a Controlled, May, 2016

11. Grants

- Co-investigator: Preparation and Characterization of Pharmaceutical Platforms: Drug Release Monitor Employing Novel HPLC Separation Techniques." 13,125JD, Al-Zaytoonah University of Jordan.
- Primary investigator: Design, Optimization and Characterization of Candesartan Polymeric Microneedle Arrays Prepared by 3D Fused Deposition Micromoulding Technique, 2020, Ministry of High education, 45,750JD.
- Primary investigator: The development and characterization of urological hydrogel device to minimize microbial adhesion and encrustation, 2019, Al-Zaytoonah University of Jordan, 28,100JD.
- Co-Investigator: A novel formula used bio-excipients for their hepatoprotective effect against the side effect of paracetamol for chronic uses, 2019, Al-Zaytoonah University of Jordan, 14,061JD.
- Primary investigator: The manufacture and characterization of hydrogel based platforms for the reduction of bacterial adhesion in implanted medical device, 2015, Al-Zaytoonah University of Jordan, 135,000JD.



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- Co-Investigator: Mussel-Inspired Mucoadhesive Nanoparticles As Novel Gastro-Retentive Dosage Forms, 2015, Al-Zaytoonah University of Jordan, 69,530JD.

12. Membership of Committees

- **National and International**
- *Member of the committee of accreditation of Faculty of Pharmacy, University of Jordan. Committee was established by Accreditation and Quality Assurance Commission for Higher Education Institutions.*
- *Member in the accreditation committee of BSC cosmetics and detergents manufacturing program for the Accreditation and Quality Assurance Commission for Higher Education Institution*
- *Examination Committee of the following postgraduate students:*
 - Chair of examination committee: Aisha Kannan, An Investigation on Loading Combined Medications in Polymeric Films: Effect of Drug Load and Polymer Type, 2023.
 - Internal examiner Ghadah Ismail Alazah, Safety evaluation of potential toxic metals exposure from commonly used Omega 3 products for infants in Jordan, 2022-2023.
 - External Examiner: Leen Khanfar: Application of different plant extracts and their nano-formulations for eczema treatment. University of Petra, 2023.
 - External Examiner: Salah Aljamal: preparation and characterization of drug-loaded, electrospun nanofiber mats formulated with zein or zein-based mixtures for wound healing applications. University of Jordan, 2022.
 - Internal examiner: Wala'a Taiseer Abu-Al-Ata. Development and Optimization Nanoemulsion-loaded into Two Bigels: A comparative Study.
 - External Examiner: Lina Mohammad Bassam Shaghlil: Formulatoin and Evaluation of Nasal Patch for Nose-to- Brain Drug Delivery of Rivastigmine. Zarqa University, 2021.
 - Chair of examination committee: Hadeel Abu Mahfouz: Development and Characterization of Biomaterial Used in Urinary Catheter to Minimize Microbial Adherence, 2021



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- Chair of examination committee: Wasan Alwahsh: Development of Biomaterial Used in Urinary Catheter to Prevent Microbial Adhesion: Effect of Drug Type, 2020.
- Internal examiner for Abdulrahim Mohamad Albasha, Master thesis entitled: Penetration of Gold Nanoparticles Through Blood Brain Barrier and their Accumulation into The Brain: Effect of Nanoparticles' Shape and Surface Chemistry, August, 2019.
- Chair of examination committee, Rana Hassan Sejare, In vitro characterization of model drugs (Aspirin and Candesartan Clexetile): Comparison between simulated physiologic conditions and pharmacopeial requirements, August, 2019.
- Chair of examination committee, Amal Yousef Bargash, Characterization of Medical Platforms to Reduce the Bacterial Adhesion Associated with Dental Implants, August, 2019.
- Internal examiner for Dua'a Omar, Master thesis entitled Co-delivery of Riboflavin Immediate Release Granules and Topiramate Extended-release Pellets: Toward Reducing Frequency of Migraine Attack, August, 2019
- Internal examiner for Hala "Mohammad Mutaz" Al-Qawas, Master thesis entitled: Controlled-release Formulations of Carvedilol-loaded Oleogels, August, 2018
- Chair of examination committee, Sanabel Omar Dawabsheh, Bioavailability of Fluoroquinolones in Human Aqueous Humor, April, 2018
- Internal examiner for Reem Ahmed Maher, Master thesis entitled: The effect of pH and Ionic Strength of the Dissolution Media on the Rate of Quetiapine Fumarate Release from Polymeric Matrix Tablets, March, 2016
- Internal examiner for Marwa Basel Issa, Master thesis entitled: Development and Optimization of Diclofenac Diethylamine Nanoemulsion-Based Gel Formulation, August, 2015
- Internal examiner for Areej Awad Allah, Master thesis entitled: Physiologically-Relevant Dissolution Media for BCS Class II Drugs: Toward Accurately Predicting the In Vivo Performance, December, 2014



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- **University**
 - *Quality Assurance committee (2016-2018, 2022-now)*
 - *Curriculum modules committee (2019-2022)*
 - *Graduate follow up committee (2015-2017, 2019-now)*
 - *Equation, Guidance, Training and Graduate follow up committee (2017-2019)*

13. Professional and Scientific Meetings

Scientific Meetings Organized

- Member of the Scientific Committee of the Al-Zaytoonah International Pharmaceutical Conference (ZTIPC 2022), Amman-Jordan 18-19 October 2022.
- Member of the Organizing Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2019), Amman-Jordan 6-7 November 2019.
- Member of the Scientific Committee of the Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman-Jordan 29-30 November 2017.
- Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2015), Amman-Jordan 21-23 October 2015.

Participation in Scientific meetings

- The Ninth Conference on Scientific Research in Jordan 9/11/2019.
- Session moderator in the seventh Zaytoonah International Toledo Pharmaceutical Conference (ZITPC) (7/11/2019).
- Speaker in workshop about cosmetics industry in Jordan (regulation and reality) October 2019.
- Poster ZITPC (7/11/2019) Journal of Pharmacy & Pharmacognosy Research, Method development and validation of UV spectrophotometric method for the assay of acetyl salicylic acid tablet in different matrices for testing the dissolution rate, Samah A. Ata, Rana H. Sejare, Ola A. Tarawneh.
- Poster ZITPC (7/11/2019) Journal of Pharmacy & Pharmacognosy Research, Effect of physiological conditions on candesartan cilexetil release, Ola A. Tarawneh, Rana Sejare, Samah A. Ata
- Poster ZITPC (7/11/2019) Journal of Pharmacy & Pharmacognosy Research, The manufacture and characterization of microbicide medical platforms for oral infections, Ola A. Tarawneh, Ala A. Alhusban, Amal Bargash
- Poster- UKPharmSci 2-4 September, 2013, United Kingdom The Design, Manufacture and Characterisation of Novel Medical Device Coatings using Cellulose Polymers, Ola Altarawneh, David Jones, Brendan Gilmore, Gavin Andrews, School of Pharmacy, Queen's University of Belfast.



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- Poster- AAPS 2013, Texas, Unites States, Manufacture and Characterization of pH Responsive Hot Melt Extruded Biomaterials, Andrews, G., Altarawneh, O., Jones, D., Gilmore, B., Madi, A., Queen's University of Belfast
- Poster- AAPS 2012, Manufacture and Characterization of Hot Melt Extruded Films for Medical Devices, Altarawneh, O., Jones, D., Gilmore, B., Andrews, G., Williams, M., Queen's University of Belfast.
- Poster- AAPS 2011, Washington DC, United States, DRUG ELUTING PH-TRIGGERED SELF-CLEANSING BIOMATERIALS, Altarawneh, O., Zhai, H., Jones, D., Gilmore, B., Andrews, G., Queen's University of Belfast

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

- a. Consultation of DITECH 2023
- b. Reviewer for Peer ISI journals
- c. Reviewer for graduate conference, Al-Zaytoonah University, 2023
- d. Reviewer for Scientific IPCPHS conference Malaysia, 2022
- e. Speaker in Symposium entitled: Cosmetic preparations: Regulations and industry, Jordanian Pharmaceutical Association, Oct, 2019
- f. Judge committee member in the contest of innovative cosmetic preparation projects held by JADE and Jordan Pharmaceutical association
- g. Speaker in Second Global Forum for Marketing of Halal Pharmaceuticals and Pharmaceuticals: Expanding the Horizons of Innovation, PSUT, Oct, 2019
- h. Consultation on innovative developed materials, KADDB, Jordan, 2017.

15. Participation in the following activities:

- i. Training in Training of the trainers: Entrepreneurship in Higher Educational Institutes Programme, Spark and ZUJ, Oct, 2019
- ii. Medical day at Islamic Education College (IEC), 6/4/2018.
- iii. University's 9th Career Day / Career Day for Pharmacy students with the participation of 15 pharmaceutical companies and pharmacies, 5/5/2017.
- iv. Training course in Scientific writing, 2018
- v. Training scientific in Building Achievement Tests and Analyzing their Results Training, June, 2017
- vi. Training course in Quality management, Feb.2017.

16. Organization of the following activities:

- i. The First Alumni reunion held in Al-Zaytoonah University of Jordan campus, December 2015.
- ii. The Second Alumni reunion held in Al-Zaytoonah University of Jordan campus, May 2017.
- iii. The Third Alumni reunion held in Al-Zaytoonah University of Jordan campus, April 2018.



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- iv. The fourth Alumni reunion held in Al-Zaytoonah University of Jordan campus, April 2019.
- v. The fourth Alumni reunion held in Al-Zaytoonah University of Jordan campus, June 2022.
- vi. Talk held by Dr. Wafa Al-Jamal (Lecturer in Pharmaceutics, University of East Anglia) in the Faculty of Pharmacy in Al-Zaytoonah University of Jordan, December, 2016.
- vii. Talk held by Eng. Khalil Wahhab about preparing senior students for writing effective CVs and developing Interview skills, November 2018.
- viii. Talk held by Dr. Khaled Khreisat about preparing senior students for writing effective CVs and developing Interview skills, October 2017.
- ix. Pharmacy Career day for graduates and 5th year students held in Al-Zaytoonah University of Jordan campus, March 2018.
- x. Organizing a career day during the Pharmacist day held in Al-Zaytoonah University of Jordan campus, October 2017.

17. Publications

- Papers in refereed journals:
 1. Samah Ata, Rana Sejare, **Ola Tarawneh**, Rania Hamed, Mohammas Al-sabi, Samar Bishtawi, Hadeel Abu Mahfouz, Sameer Alkouz. The impact of simulated gastrointestinal fluid: viscosity, surface tension, and pH on dissolution and rheology assessment of viscosity on two commercial products of candesartan cilexetil, Turkish Journal of Pharmaceutical Sciences, accepted.
 2. Alhusban, A.A., Ata, S.A., Hamadneh, L.A., **Tarawneh, O.A.**, Abuzaid, H., Albustanji, S. and Awad, M.K., 2023. Toxic Metals Transfer from Heating Coils to e-liquids: Safety Assessment of Popular e-cigarettes in Jordan. *Jordan Journal of Pharmaceutical Sciences*, 16(2), pp.391-401.
 3. **Tarawneh, O.**, Hammad, A.M., Mahfouz, H.A., Hamadneh, L., Hamed, R., Hamadneh, I. And Al-assi, A.R., Development of Mucoadhesive Cellulose Derivatives Based Films for The Treatment of Vaginal Candidiasis. *Cellulose Chemistry and Technology*. 57 (1-2), p 117-127.
 4. Alhusban, A.A., Hamadneh, L.A., Shallan, A.I. and **Tarawneh, O.A.**, 2022. Automated online monitoring of lactate and pyruvate in tamoxifen resistant MCF-7 cells using sequential-injection capillary electrophoresis with contactless conductivity detection (SI-CE-C4D) and correlation with MCT1 and MCT4 genes expression. *Journal of Liquid Chromatography & Related Technologies*, pp.1-10.
 5. **Tarawneh, O.**, Abu Mahfouz, H., Hamadneh, L., Deeb, A.A., Al-Sheikh, I., Alwahsh, W. and Fadhil Abed, A., 2022. Assessment of persistent antimicrobial and anti-biofilm activity of p-HEMA hydrogel loaded with rifampicin and cefixime. *Scientific Reports*, 12(1), pp.1-11.
 6. **Tarawneh, O.**, Hamadneh, I., Huwaitat, R., Al-Assi, A.R. and El Madani, A., 2021. Characterization of Chlorhexidine-Impregnated Cellulose-Based Hydrogel Films Intended for the Treatment of Periodontitis. *BioMed Research International*, 2021.
 7. **Tarawneh, O.**, Alwahsh, W., Abul-Futouh, H., Al-Samad, L.A., Hamadneh, L., Abu Mahfouz, H. and Fadhil Abed, A., 2021. Determination of Antimicrobial and Antibiofilm Activity of Combined LVX and AMP Impregnated in p (HEMA) Hydrogel. *Applied Sciences*, 11(18), p.8345.
 8. Mahmoud, Nouf N., Haneen Qabooq, Shrouq Alstori, **Ola A. Tarawneh**, Nour H. Aboalhajja, Sawsan Shraim, Alaaldin M. Alkilany, Enam A. Khalil, and Rana Abu-



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- Dahab. "Quercetin-gold nanorods incorporated into nanofibers: development, optimization and cytotoxicity." *RSC Advances* (2021).
9. Ata, Samah A., **Ola A. Tarawneh**, Rana H. Sejare, Suhair Z. Sunoqrot, and Rania A. Al-Qirim. "Impact of Solvent Selection and Absorptivity on Dissolution Testing of Acetylsalicylic Acid Enteric-Coated Tablets." (2021).
 10. **Tarawneh, O.**, Al-Assi, A.R., Hamed, R., Sunoqrot, S., Hasan, L., Al-Sheikh, I., Al-Qirim, R., Alhusban, A.A. and Naser, W., 2019. Development and characterization of k-carrageenan platforms as periodontal intra-pocket films. *Tropical Journal of Pharmaceutical Research*, 18(9), pp.1791-1798.
 11. Alhusban, A.A., **Tarawneh, O.A.**, Dawabsheh, S.O., Alhusban, A.A. and Abumhareb, F.W., 2019. Liquid chromatography–tandem mass spectrometry for rapid and selective simultaneous determination of fluoroquinolones level in human aqueous humor. *Journal of pharmacological and toxicological methods*, 97, pp.36-43.
 12. **Tarawneh, O.A.**, Madi, A.M., Hamed, R., Qirem, R., Qerem, W., Alhusban, A., Sunoqrot, S., Mahmoud, N., Ata, S. and Alsheikh, I., 2019. In vitro Characterization and Evaluation of Commercialized Paracetamol Products in Jordan. *Dissolution Technologies*, 8, p.9.
 13. Hamed, R., AbuRezeq, A.A. and **Tarawneh, O.**, 2018. Development of hydrogels, oleogels, and bigels as local drug delivery systems for periodontitis. *Drug development and industrial pharmacy*, pp.1-10.
 14. Sunoqrot, S., Hamed, R., Abdel-Halim, H. and **Tarawneh, O.**, 2017. Synergistic Interplay of Medicinal Chemistry and Formulation Strategies in Nanotechnology-From Drug Discovery to Nanocarrier Design and Development. *Current topics in medicinal chemistry*, 17(13), pp.1451-1468.
 15. Sunoqrot, S., Hasan, L., Alsadi, A., Hamed, R. and **Tarawneh, O.**, 2017. Interactions of mussel-inspired polymeric nanoparticles with gastric mucin: implications for gastro-retentive drug delivery. *Colloids and Surfaces B: Biointerfaces*, 156, pp.1-8.
 16. Hamed, R., Al-Samydai, A., Al Baraghthi, T., **Tarawneh, O.** and Sunoqrot, S., 2017. Influence of HPMC K100LV and Compritol® HD5 ATO on drug release and rheological behavior of HPMC K4M matrix tablets. *Journal of Pharmaceutical Innovation*, 12(1), pp.62-75.
 17. Sunoqrot, S., Alsadi, A., **Tarawneh, O.** and Hamed, R., 2017. Polymer type and molecular weight dictate the encapsulation efficiency and release of Quercetin from polymeric micelles. *Colloid and Polymer Science*, 295(10), pp.2051-2059.
 18. Hamed, R., Awadallah, A., Sunoqrot, S., **Tarawneh, O.**, Nazzal, S., AlBaraghthi, T., Al Sayyad, J. and Abbas, A., 2016. pH-dependent solubility and dissolution behavior of carvedilol—case example of a weakly basic BCS class II drug. *AAPS PharmSciTech*, 17(2), pp.418-426.
 19. Hamadneh, I., Yaseen, N., Abdallat, Y., Hamadneh, L. and **Tarawneh, O.**, 2016. The Sintering Effect on the Phase Formation and Transport Current Properties of SmBa₂Cu₃O_{7-δ} Ceramic Prepared from Nano-Coprecipitated Precursors. *Journal of Superconductivity and Novel Magnetism*, 29(3), pp.829-834.
 20. Rania Hamed, Marwa Basil, Tamadur AlBaraghthi, Suhair Sunoqrot & Ola Tarawneh (2015): Nanoemulsion-based gel formulation of diclofenac diethylamine: design, optimization, rheological behavior and in vitro diffusion studies, *Pharmaceutical Development and Technology*. <http://dx.doi.org/10.3109/10837450.2015.1086372>

18. Conference Posters

- Poster- UKPharmSci 2-4 September, 2013, United Kingdom The Design, Manufacture and Characterisation of Novel Medical Device Coatings using



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Cellulose Polymers, Ola Altarawneh, David Jones, Brendan Gilmore, Gavin Andrews, School of Pharmacy, Queen's University of Belfast.

- Poster- AAPS 2013, Texas, Unites States, Manufacture and Characterization of pH Responsive Hot Melt Extruded Biomaterials, Andrews, G., Altarawneh, O., Jones, D., Gilmore, B., Madi, A., Queen's University of Belfast
- Poster- AAPS 2012, Manufacture and Characterization of Hot Melt Extruded Films for Medical Devices, Altarawneh, O., Jones, D., Gilmore, B., Andrews, G., Williams, M., Queen's University of Belfast.
- Poster- AAPS 2011, Washington DC, United States, DRUG ELUTING PH-TRIGGERED SELF-CLEANSING BIOMATERIALS, Altarawneh, O., Zhai, H., Jones, D., Gilmore, B., Andrews, G., Queen's University of Belfast