

## Hayat A. Al-Btoush

BPharm, MSc, PhD (Manchester, UK)

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### Personal data

DoB 09/04/1978

Nationality Jordanian

Marital status Single

### Education

2014-2017 University of Manchester/ Division of Pharmacy and Optometry-UK.

Doctor of Philosophy degree

***“Synthesis and Evaluation of Cell Behaviour Modifying Compounds for Cancer Therapy”***

2007- 2009 University of Jordan/Faculty of Pharmacy-Jordan

Master degree in Clinical pharmacy, comprehensive track

1996- 2001 Jordan University of Science and Technology-Jordan

Bachelor degree in Pharmacy

1996 Al-Mazar Secondary School for Girls

### Employments

2023-current Head of department of Pharmaceutical Chemistry/Faculty of Pharmacy-Mutah University-Jordan

2022-2023 Assistant Dean for Student Affairs/Faculty of Pharmacy-Mutah University-Jordan

2022-current Coordinator of the Research Team 1- Deanship of Scientific Research

2020-2021 Head of department of Pharmaceutical Chemistry/Faculty of Pharmacy-Mutah University-Jordan

11/2017-current	Assistant Professor in Medicinal Chemistry and Drug Discovery/ Faculty of Pharmacy-Mutah University-Jordan
2009-2013	Community pharmacist in Joud Community Pharmacy, and Alsubhiat Community Pharmacy/Alkarak
2005-2007	Hospital pharmacist in Dr. Soliman Fakieh Hospital Jeddah-Saudi Arabia
2001-2005	Community pharmacist in Nassar Community Pharmacy/Alkarak

## Publications

- **GC-mass determination for the biodegradative products of 2,6-dimethylpyridine using Dead-Sea bacterial isolate (2021)**  
Al-Hujran, T. A.; Magharbeh, M. K.; **Al-Btoush, A. H.**; Al-Ja'afreh, A. A.; Gaber, Y.  
*Research Journal of Chemistry and Environment. ISSN 0972-0626, 25 (9), 1-8.*
- **Bioavailability and Bioequivalence of Two Oral Single Dose of Ibuprofen 400 mg to Healthy Volunteers (2021)**  
Saied M. I. Al-Dalaen, Abdul-Wahab R. Hamad, Tayel A. AL-Hujran, **Hayat A. Al-Btoush**, Lidia Al-Halaseh, Mousa K. Magharbeh, Nariman A. Al-Jawabri, Islam A. Al-Kasasbeh and Fadhil M. Abid.  
*Biomedical and Pharmacology Journal; 2021: 14 (1), pp. 435-444.*
- **In vivo investigation of the potential hypoglycemic activity of Pennisetum setaceum: Justification of the traditional use among Jordanians**  
Lidia K. Al-Halaseh, Nariman A. Al-Jawabri, **Hayat Al-Btoush**, Rawan Al-Suhaimat, Siba Majali, Maha N. Abu Hajleh, Ali Al-Samydai, Mai A.M. Ahmed  
*Research Journal of Pharmacy and Technology; 2022; 15(7).*
- **Assessment of knowledge, behaviour and awareness towards antibiotic use and resistance: a cross sectional study from south Jordanian society**  
**Hayat A Al-Btoush**, Shereen M Aleidi, Hind A Al-Odinat, Nisreen T Qaisi.  
*Journal of Pharmaceutical Health Services Research 2023; 14(3), pp. 327–332.*
- **In Silico Evaluation of Ferulic Acid Based Multifunctional Conjugates as Potential Drug Candidates**  
**Hayat A. Al-Btoush**, Mahmoud A. Al-Sha'er  
*Medicinal Chemistry 2024; 20(2), pp. 232 - 244.*
- **The Interactions between Metallic Nanoparticles and Cytochrome p450, Alanine Aminotransferase, and Aspartate Aminotransferase Enzymes**  
**Hayat A. Al-Btoush**  
*Journal of Pure and Applied Microbiology 2023; 17(4), pp. 2024-2040.*

## Conferences, workshops; and seminars

- The 7<sup>th</sup> international conference on drug discovery and therapy, United Arab Emirates, 2016. Poster presentation: Synthesis and Evaluation of Cell Behaviour Modifying Compounds for Cancer Therapy.
- The 1<sup>st</sup> International Conference at Faculty of Pharmacy, Dead Sea, Jordan, Mutah University, 18<sup>th</sup> -20<sup>th</sup> April 2018. Using modern technology in pharmaceutical science. The scientific committee at Jordan Pharmacists Association. Organizing and moderating committee.
- FIP-JPA Regional Conference for the Eastern Mediterranean Region, supported by EMROPharm Forum: “Envisioning the future together: Transforming pharmacy for better primary health care”, Amman, Jordan, 25 & 26 April 2019.
- Workshop by Quality Committee/Faculty of Pharmacy/Mutah University: Quality Methods Workshop, 10/03/2020.
- Workshop by Quality Committee/Faculty of Pharmacy/Mutah University: Course Profile and Learning Outcomes Workshop. 2/11/2020.
- Workshop by Royal Scientific Society: The final workshop of the project (Studying the genesis and fate of pharmaceutical waste from its source until it reaches water bodies and the food chain), 06/04/2021, Online.
- Workshop by Emerald Publishing: How to select the right journal? (In English), 08/03/2021.
- The 3<sup>rd</sup> National Conference for Food and Drug Industry ( 26-27\5\2021).
- Field Pharmacist Training Day in Jordanian Universities (01/06/2022).

## Award

Winner of the best poster prize in the 7th international conference on drug discovery and therapy, UAE, 2016.

## International Collaboration

Research collaboration between “Nanotechnology and Catalysis Research Center” (NANOCAT), Malaya, Malaysia and Research Team 1, Mutah University.

Role: Coordinator of the Research Team 1.

## Grants

- Mutah University. A fund for the Research Team 1 research project entitled: “***Design, Synthesis of Metals, Metal oxides, and Polymers Nanomaterials: Applications in Environmental and Medical Fields***”. 2023-2026: **90000 JD.**

Co-researcher: 2022 (in process)

- Mutah University. “***Upgrading the teaching and training capabilities at the faculty of pharmacy to get the ACPE***”. 2022-2023: **47000 JD.**
- King Abdullah II Fund For Development- KAFD in cooperation with King Abdullah II Design & Development Bureau – KADDB. “***Anatural remedy to help coping with the stressful consequences of Covid-19 pandemic***”. 2020-2021: **5000 JD.**

## Research interest

- Drug design and discovery from synthetic and natural world
- Synthetic modifications and optimization for lead compounds.
- Drug synthesis and biological evaluation
- Cancer Research
- Alzheimer’s Research
- Clinical Pharmacotherapy Research

## **Skills**

- **Instrumental skills:** Extensive working with a variety of physicochemical techniques, such as UV-visible spectroscopy, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR, MS.
- **Workplace/computer skills:**
  - Excellent operational skills in general PC software including Microsoft Word, Excel, Power-Point.
  - Chemical and pharmaceutical databases: SciFinder
  - Excellent operational skills in specialized chemistry PC software including ChemDraw Ultra2000, Marvin.

## **Teaching experiences**

Teaching the following courses to undergraduate Pharmacy Students

- 1- Medicinal chemistry (1)
- 2- Medicinal chemistry (2)
- 3- Medicinal chemistry (3)
- 4- Pharmaceutical management and marketing
- 5- Demonstrator for instrumental analysis laboratory
- 6- Demonstrator for medicinal chemistry (2) laboratory
- 7- Demonstrator for General Chemistry 1
- 8- Clinical Biochemistry
- 9- Clinical Pharmacy

## **Membership of scientific and professional societies**

- Jordanian Pharmacists Association (2001-present)
- Coordinator of the first research team at the level of Mutah University (05-04-2022 –present).

## **Membership of university committees**

- Member of the student's affair and graduates' committee
- Member of the community service and social activities committee
- Chair of Library and Website Committee
- Member of the Scientific Research Committee
- Member of the laboratory equipment and general safety committee.
- Member of the field training committee.