

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 <i>“Synthesis and Evaluation of Cell Behaviour Modifying Compounds for Cancer Therapy”</i>
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 Fakeeh 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 7th 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 1st International Conference at Faculty of Pharmacy, Dead Sea, Jordan, Mutah University, 18th -20th 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 3rd 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, ¹H NMR, ¹³C 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.