

Education

PhD in Pharmaceutical sciences

Field of specialty: Drug design and Medicinal Chemistry Faculty of Pharmacy University of Jordan, Amman / Jordan
Thesis entitled: "Implementation of Computer aided Drug Design Methodologies for the Discovery of Novel Small Molecule inhibitors against fms like Tyrosine kinase (Flt3)".

M.Sc. Analytical Toxicology (2003), GPA 3.7

Field of specialty: Pharmacogenetics

Faculty of Medicine, University of Jordan, Amman / Jordan

Thesis:

"Correlation between possible citalopram toxicity and the polymorphism of cytochromeP450 isoenzymes."

- **B.Sc Pharmacy (1996), Average 80.9%, rating: very good**

Faculty of Pharmacy and Medical Sciences, Al-Ahliyya University, Amman /Jordan

Professional experience:

Head of department

Oct 2017- Present

Department of Pharmaceutical Chemistry and Pharmacognosy
Faculty of Pharmacy/ Applied Science University

Faculty member and lecturer

Sep 2016 – Present

Department of Pharmaceutical Chemistry and Pharmacognosy
Faculty of Pharmacy/ Applied Science University

Co-founder and Technical manager

Oct 2012- March 2019

Forefront for scientific and research solutions

Preclinical and clinical study implementation, Director

Feb 2009- Jun 2011

Philadelphia Biological & Medical Product Development Centre

Duties:

1) to oversee the studies that are undertaken by the Centre;

- guarantee that the protocols for the study are followed rigorously
- secure staffing as exactly planned and transitions to laboratory work are smooth.
- Ensure that results are reported accurately and all communications with everyone involved in the study are precise and timely.

2) To make certain that good practice is recognized by staff and implemented according to international guidelines and regulation with special emphasis on GLP and GCP.

3) Guarantee, when studies are completed, that reports to the sponsors are completed as agreed and that articles, if appropriate, are developed to publicize the study results.

Board member, Jordan Anti-Doping Organization

JADO, Amman/Jordan

Oct 2006- January 2015

Duties include, but not limited to:

- *establishing broad policies and objectives for JADO.*
- *ensuring the availability of adequate financial resources.*
- *approving annual budgets.*

Teaching assistant

Sep 2005 - July 1st 2007, Amman/ Jordan

Toxicology division, Faculty of Medicine, University of Jordan

- Conducted toxicology rotation lectures for fifth year Medicine student
- Managed M.Sc. students in "Analytical Toxicology" M.Sc. program.
 - a) Analytical toxicology
 - b) Environmental toxicology course
- Supervised the daily events at Jordan National Poison Information Center (**JNDPIC**) and the toxicology lab.

Poison Information provider

Nov 2002-Sep 2007, Amman/ Jordan.

Jordan National Drug and Poison Information Centre (JNDPIC)/Jordan University Hospital

- *Provided poisoning related information and clinical toxicology consultation.*
- *Managed the administrative and technical work for the establishment of JNDPIC. Collected various data required for the center such as data concerning drugs and chemicals available in Jordan.*
- *Handled correspondence with various parallel centers in the US and UK.*

Achievements:

- *Gained experience in the clinical field of toxicology and poisoning, business and information management.*
- *Established a comprehensive toxicology library at the center.*
- *Expanded knowledge in research on information resources*
- *Succeeded in receiving two invitations from UK and USA centers for training at their premises.*
- *Created a data collecting system for JNDPIC*

Teaching and Research Assistant

Aug 2001 – Feb 2003, Amman/ Jordan

Toxicology division, Faculty of Medicine, University of Jordan

- *Worked as a teaching assistant for three semesters.*
- *Involved in the routine drug analysis undertaken by the toxicology lab at the Jordan University Hospital.*

Achievements:

- *Gained the required skills for clinical and forensic analysis of various biological samples.*
- *Attained the basic skills of method development and validation especially in the field of bioanalysis and chromatographic validation.*

- *Gained the experience in handling DNA extraction and DNA analysis using PCR and gel electrophoresis methods.*

Laboratory Supervisor

March 1997- April 2001, Amman/ Jordan

Faculty of Pharmacy, Al-Ahliyya University.

Duties:

- *Supervised and coached students to fulfill their lab training according to the faculty curriculum.*
- *Prepared technical aspects of the lab to conduct experiments.*
- *Worked at the various faculty laboratories, including basic sciences labs and applied sciences labs, mainly the toxicology/ pharmacology lab.*

Pharmacist in charge

April 1996- March 1997, Amman/ Jordan

Hala Modern Pharmacy

- *Scope of work included: dispensing, managing stock order, accounting and various pharmacy affairs*

Publications

1. **Design and Synthesis of New Sulfonamides–Based Flt3 Inhibitors.** *Medicinal chemistry* DOI : 10.2174/1573406415666190401144053 (April 2019) Reem Fawaz Abutayeh, Jihad Almaliti, Mutasem O. Taha.
2. **Discovery of novel Flt3 inhibitory chemotypes through extensive ligand-based and new structure-based pharmacophore modelling methods.** *Journal of Molecular Graphics and Modelling* (Jan2019). Reem Fawaz Abutayeh, Mutasem O Taha
3. **Pharmacokinetic evaluation of D-ribose after oral and intravenous administration to healthy rabbits.** *Clinical Pharmacology: Advances and Applications* Vol. 10 P: 73-78 (June 2018) Karem H Alzoubi Zuhair Bani Ismail Mohamed K AL-Essa Osama Y Alshogran Reem F Abutayeh Nareman Abu-Baker
4. **Novel Anticancer Compound [TRIFLUOROMETHYL-SUBSTITUTED PYRAZOLE NNUCLEOSIDE] Inhibits FLT3 Activity To Induce Differentiation In Acute Myeloid Leukemia Cells.** *Cancer Lett.* 2016 Jun 23;375(2):199-208 Ayman M Saleh, Mutasem O Taha, Mohammad A Aziz, Mahmoud A Al-Qudah, Reem F AbuTayeh, Syed A Rizvi
5. **Evaluation of the Subacute Toxic Effects of an Isotonic D-ribose Solution Administered intravenously to Fischer Rats.** *Jordan Journal of Pharmaceutical Sciences, Volume 5, No. 2, 2012.* Mohamed K. Al-Essa, Nareman Abu Baker, Karem Alzoubi, Mohammad Borhan Al-Zhgoul, Shereen Khlouf, Abdel-Rahman Al-Saleh, Bilal Al-Omary, Reem Abu-Tayeh, Maha Shomaf, Abdelkader Battah, Kamal Al-Hadidi and Zuhair Bani Ismail
6. **Evaluation of α -D-ribofuranose (D-ribose) toxicity after intravenous administration to rabbits.** *Human and Experimental toxicology* volume 31, No 8, 2012. Z Bani Ismail, N Abu-Baker, K Alzoubi, MAI-Zhgoul, MK Al-Essa, S Khlouf, A Al-Saleh, B Al-Omari, R Abu-Tayeh, M Shomaf, A Battah and K Al-Hadidi
7. **Poisoning in Jordan: Analysis of Three Year Data from Jordan National Drug and Poison Information Center.** *Jordan Medical Journal* volume 44. No 3, 2010 Nathir M. Obeidat, Reem F. Abutayeh, Kamal A. Hadidi

College, school, or university committee assignments:

1. Study Plan committee, school committee, rapporteur, 2018-present
2. Evaluation committee, school committee, member 2018-present
3. Quality and accreditation committee, school committee, member, 2016-2018
4. ACPE committee, school committee, member (steering), 2016-present

Presentations

"Implementation of computer-aided Drug Design methodologies: Homology Modelling of fms like Tyrosine Kinases (Flt3)"

Fourth Scientific day " Novel Drugs: Chemistry and Design"

9th May 2018 – Philadelphia University

"Role of Pharmacist in Drug and Poison Information Center"

Fifth Scientific day "Pharmacists' missing Roles"

16 March 2017-Zarqa University

"Role of Poison centers in mass disaster"

16-17 Sep 2005 Amman/Jordan

Jordanian Swedish Medical Association, 4th symposium and workshop.

Trauma-Management Support.

"Role of Poison center in Rational Drug Use"

18-20 Sep 2006 Amman/Jordan

Jordan National Drug Formulary Dissemination and Implementation strategy Workshop

"Validated genotyping methods of CYP450 in Jordan"

1-3 Sep 2006 Amman/Jordan

2nd JSP International Conference.

"Doping education for athletes"

23rd Nov 2006 Amman/ Jordan

Amman stadium for youth.

"What is A Poison Center?"

27th Apr-29th May 2006 Amman/Jordan

An educational School Campaign which covered 40 schools to introduce the concept of the center to the public.

Continuing Professional Development:

4th March-5th March 2018

The 3rd Regional Pharmacy Faculty Development Workshop “ Best Practices for Planning and Evaluation of Experiential Education. Abu-Dhabi, UAE.

31st March- 5th May 2017

Professional Diploma in Clinical Research Management (GCP)

A total of 40 training hours

Organized by the Consultation and Training Center at the German Jordanian University (GJU) and NOBEL for development.

5th March-6th March 2017

The 2nd Regional Pharmacy Faculty Development Workshop “Best Practices for Planning Educational Assessment and Curriculum Mapping”. Abu-Dhabi, UAE

26th-29th Jan 2014

Financial Management Skills (Access to Finance)

A total of 20 training hours

Managed by Business Development Center (BDC)

2nd- 7th Nov 2013

Entrepreneurship Training Workshop, Amman/ Jordan

Organized by The United Nations Conference on Trade and Development (UNCTAD)

17th – 18th June 2011

TUE/RM workshops, Amman/ Jordan

Completed in accordance with the World Antidoping code and international standards:

- Therapeutic use exemption training course
- Result management training course.

13 – 17th Dec 2008

Pharmacy one training and drug information center, Amman/ Jordan

"New Trends in Pharmacy Management"

6th- 8th Nov 2008

TUE/RM workshops, Amman/ Jordan

Completed in accordance with the World Antidoping code and international standards:

- Therapeutic use exemption training course
- Result management training course.

10th- 12th April 2008

26th general Arab Pharmacist Union Conference and 12th Jordan Pharmacist Association conference, Amman/ Jordan

"Role of Pharmacist in Good Pharmaceutical Practice"

6th Apr-21st May 2008

Computeach center, Amman/ Jordan

Webpage design: HTML, JAVAscript, MS Frontpage

Aug15th – Sep 9th 2007

JPA, Amman/Jordan

CE course: skin and GIT diseases

Aug 1st – Sep 1st 2006

JPA, Amman /Jordan

CE course in Clinical Pharmacy: 80 theoretical hours plus 16 practical hours.

Oct 30th November 12th 2004

Syracuse, New York/ USA.

Two weeks overview training at Central New York Poison Information Center.

Languages

Arabic as a native language, English (excellent) and French (good).

Affiliations:

Affiliated to:

The Jordan Pharmaceutical Association [JPA], Amman/ Jordan

Jordan Association of Clinical and Forensic Toxicology , Amman/ Jordan

Jordan Antidoping Organization JADO, Amman/Jordan

The International Association of Forensic Toxicologists [TIAFT]

Current professional/scientific interests, memberships, and activities:

Post approval changes committee, Jordan Food and Drug Administration, member (Decr 2017- Dec 2018)

Continuing Professional Education Committee, JPA, member (2017)

Pharmacists in Academia committee, JPA, member (2017)

References:

Available upon request