

# Resume



## Aseel Fayeze Abu-Alsha'ar

**Permanent Address:** Khalda, Amman, Jordan

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## Professional Summary

- Full-time lecturer for 7 years.
- Knowledge of Using molecular techniques such as Affymetrix/DMET, Traditional PCR, RT-PCR and QPCR, with its various systems; such as Thermal Cycler, Gel Electrophoresis System, Gel Documentation System, Mutation Detection, and DNA Sequencer.
- DNA and RNA Extraction.
- Good user of bioinformatics tools; including Sequencing analysis software; chromas pro, in addition to the use of genome databases (NCBI, ENSEMBL) along with using computer software for primer design and selection (Primer3, Beacon designer, netprimer).
- Good analytical skills.
- Very good communication skills both in English and Arabic; written and spoken.

## Current Position

October, 2019 – present

**Organization:** University of Pavia, Biology and Biotechnology Department

**Position:** PhD student in “Genetics, Molecular and Cellular Biology”.

Supervisors: Prof. Fausto Baldanti

Prof. Roberta Magliavacca

## Working experience

September, 2012 – 2019

**Organization:** American University of Madaba, Biology and Biotechnology Department

**Position:** Full-time Lecturer

Tasks:

- Designing, preparing and developing teaching materials (syllabus, lectures, lab manuals for courses)
- Conducting lectures and exams of several undergraduate courses;
  - General Biology 101
  - General Biology 102
  - Cell Biology
- Teaching, writing exams, supervising and conducting laboratory-based courses;
  - General Biology Lab
  - Genetics Lab
  - Histology Lab
  - Developmental Biology Lab
- Academic advisor to BSc students.
- Assessing students' coursework through setting and marking examinations.
- Proctoring exams.
- Carrying out administrative tasks related to the department such as writing minutes of meeting for year 2014/2015 and preparing tenders.
- Maintaining equipment and taking care of organisms needed for some labs (due to the lack of lab supervisors).

**September, 2008 – September, 2012**

**Organization:** Jordan University of Science and Technology, Princess Haya Biotechnology Center

Tasks:

- Performing Real-time PCR using Applied Biosystems Fast 5700 machine, to carry out a variety of applications such as, H1N1 test for patients suspected to have swine flu. Also, familiar with performing real time PCR on Rotorgene–Qiagen to carry out a variety of applications such as, Hepatitis B & C quantitation.
- Comprehensive knowledge of genome data bases (NCBI, ENSEMBLE) along with using computer software for primer design such as primer 3, net primer and beacon designer.
- Performing Traditional PCR, RT-PCR, and sequencing using the ABI prism 310 and 3130 genetic analyzer to detect germline mutations and sporadic mutations in *BRCA1*, *BRCA2* and *P53* genes.
- Preparing *Affymetrix*/DMET chips and analyzing the results.
- Familiar with QIAcube Robotic workstation and QIAxcel System.

**February, 2006 – May, 2008**

**Organization:** Jordan University for Science and Technology

Biotechnology and Genetic Engineering Department

**Position:** Teaching assistant

Tasks:

- Teaching General Biology labs (Bio 107) for three semesters.
- Assessing students' coursework through setting and marking examinations.
- Invigilating exams.

In addition to my work in Transcriptomics and RNomics lab, I am also mastering the following techniques that I gained while working on my master thesis.

**September, 2005 – June, 2008**

**Organization:** Jordan University of Science and Technology, Princess Haya Biotechnology Center

**Position:** Graduate Student

Tasks:

- DNA extraction from various sources including human blood and paraffin embedded tissues by using manual extraction such as phenol-chloroform & proteinase K salting out techniques.
- Traditional PCR and RT-PCR.
- performing sequencing using the ABI prism 310 and 3130 genetic analyzer, to carry out a variety of applications such as, comparative sequencing, SNP discovery and validation, mutation detection for research and diagnostic purposes.
- Comprehensive knowledge of genome data bases (NCBI, ENSEMBLE) along with using computer software for primer design such as primer 3, net primer and beacon designer.

## **Academic Qualifications**

**September, 2005 – June, 2008**

**Masters of Applied Biology** with specialization in Diagnostic Molecular Biology.

University: Jordan University of Science and Technology.

Master's thesis title: Screening for Germline Mutations in *BRCA1* gene among Jordanian Patients with Breast Cancer.

GPA: 83.4

**September, 2001 – June, 2005**

**Bachelor of Biotechnology and Genetic engineering**

## Languages

Native language: Arabic

Others: English

## SCIENTIFIC WORKSHOPS & CONFERENCES ATTENDED

- **Affymetrix University Expression Data Analysis Training Course** in London Heathrow, UK, on 21-23rd October 2009
- **Workshop in using 7500 Fast Real-Time PCR System**, June 8-11, 2009, J.U.S.T, Irbid J.U.S.T, Irbid.
- **American Association for Cancer Research International Conference, Advances in Cancer Research; from the Laboratory to the Clinic**, March 16 - 19, 2008, Dead sea - Jordan
- **KHCBI –NCI- Duke University Middle East and North Africa (MENA) Cancer Research conference**, September 3 – 4, 2007, Amman - Jordan
- **The Forensic Entomology & Its Use In Medico Legal Investigation**, Speaker Dr. Ian Dadour, University of Western Australia, May 5, 2005, J.U.S.T, Irbid.
- **The first National Conference For Neonatal Screening Of Inborn Errors Of Metabolism**, April 28, 2005, Crown Plaza Hotel, Amman.
- **Special Workshop In Clinical Genetics About The Significance Of Malformations And Anomalies In The Diagnosis Of Genetic Disorders & Genetic Counseling**. Speaker: Prof. John Kunza, Humboldt, Berlin, Germany, April 4 -7, 2005, J.U.S.T, Irbid.
- **The Swedish Experience In The Early Detection Of Down Syndrome & Intervention**, Speakers Prof. Goeran Anneren, Prof. Gunnar Sanner and Agneta Luttröpp, Sweden, March 16, 2005, J.U.S.T, Irbid.
- **Communication Skills, Decision Making, Problem Solving, Time Management, Management of Changes** organized by the Civil Society Development Centre/ JUST. During February 2005.
- **Princess Haya Biotechnology Center, A Core Facility of Biotechnology In Jordan**. Speaker Rifaat Rawashdeh, the 7<sup>th</sup> annual scientific day for the faculty of Science and Arts, 18-19 of May 2004, J.U.S.T, Irbid.