

Majd Alnajjar

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Detail-oriented Researcher with hands-on experience performing clerical and laboratory work to advance research goals. Highly proficient in conducting comprehensive literature reviews, providing computational research support and preparing samples and specimens for testing. Skilled in working within collaborative environments to collect and evaluate research data for variety of projects.



Work History

**Apr 2019 -
Sep 2022**

Researcher

Hamdi Mango For Research/ The University Of Jordan, Amman, Jordan

Fields of Activity:

- Tissue culture of Breast (MCF7, MDA-MB-231, SK-BR-3), Prostate (PC3), Pancreatic (PANC1), Human Colon (HCT116), Human epithelial colorectal adenocarcinoma (Caco-2), Ovarian cancer (SK-OV3) and Human primary glioblastoma (U87) cell lines
- Tissue culture of Adenocarcinoma human alveolar basal epithelial cells (A549), Cervical cancer cells (Hela cells), Human embryonic kidney cells (Vero cells), Lymphoblastoid human erythroleukemia cell line (K562), Murine melanoma cell line (B16-F0), Homo sapiens skin malignant melanoma cells (A-375), Colorectal cells (Colo205) and Fibroblast cells
- 3D Modeling to study novel compounds with antiviral activities
- Freezing and Thawing of different types of cell lines
- Preparation of different Culture Medias
- Seeding different types of cell lines
- Cell viability and Cytotoxicity Assay (MTT Assay)
- Polymerase chain reaction (PCR) Technique
- Medicinal Plant Extraction Method
- Scratch Assay Technique
- Protein Extraction and Quantification for Enzymatic Assays
- Western Blot Analysis Technique
- Trained Interns and Students on Tissue Culture techniques
- Supervised undergraduate and postgraduate students working on research projects
- Planned, modified and executed research techniques, procedures and tests

**Sep 2022 -
May 2023**

Intern (Clinical Pharmacy Department)

Ibn Al- Haytham Hospital , Amman, Jordan

Fields of Activity:

- Educated on the medical conditions concerning patients and their therapeutic prescriptions as well as understanding the drug's mechanism of action and

pharmacology in detail.

- Followed department policies, procedures, and best practices for clinical pharmacy.
- Interacted with healthcare professionals to support the timely and proper processing of prescriptions.
- Located and measured medications according to prescription information, making modifications as instructed by clinical pharmacists and providers.
- Assisted clinical pharmacist in the final review of filled prescriptions.
- Evaluated patient histories to assess medication compliance and spot issues such as excessive usage.
- Educated on identifying and communicating therapeutic issues concerning an individual patient as well as clinical problem-solving and decision-making abilities.
- Educated on supporting and counseling the patient regarding the safe use of prescription drugs and over-the-counter drugs.
- Educated on how to communicate effectively with physicians, nurses, and healthcare facilities.
- Assisted in optimizing patients' pharmacotherapy.
- Contributed significantly to the detection and management of drug-related problems, especially in patients with cardiovascular diseases, as well as elderly with chronic medical conditions with poly-pharmacy who have the highest rank in the frequency of medication errors.
- Educated on the management of anticoagulation therapy based on the patient's specific situations.

**Feb 2017 -
Jul 2018**

Research Assistant

Cell Therapy Center/ The University Of Jordan, Amman, Jordan

Projects: "Cancer Stem Cells", "Mesenchymal Stem Cells in Parkinson disease" /Fields of Activity:

- Tissue Culture of Cancer Stem Cells, Mesenchymal Stem Cells, Bone Marrow Stem Cells and Neurospheres
- Preparation of different Culture Medias
- Freezing of Cancer Stem Cells, Mesenchymal Stem Cells, Bone Marrow Stem Cells and Neurospheres
- Thawing of Cancer Stem Cells, Mesenchymal Stem Cells, Bone Marrow Stem Cells and Neurospheres
- Culturing of Cancer Stem Cells, Mesenchymal Stem Cells, Bone Marrow Stem Cells into Neurospheres by growing them into specific neuromedia
- Flow Cytometry
- MTT Assay
- Immunocytochemistry
- Protein Quantification
- Cell Lysate Extraction/ Preparation of Cell Lysate dilutions
- Immunofluorescence Staining of Neural Stem Cells
- Sorting of Cancer Stem Cells using (FACS sorting, MACS sorter)
- DNA Extraction
- In Vitro Cell Migration and Invasion Assays
- Planned, modified, and executed research techniques, procedures and tests
- Conducted meticulous research to identify information and answer multifaceted questions

Mar 2014 -
Jul 2014

Intern

NextPharma Pharmaceutical Company, Bielefeld, Germany

Fields of Activity in the (Production Department): -

- Tableting support: tablet press adjustment.
- Monitoring of the tableting process: implementation of in- process controls (IPC).
- Support in encapsulation: setting up the encapsulation machine, monitoring the encapsulation process, performing IPC.
- Creation of training presentations (in Power Point) on the topics including Granulation, Film coating and drying, Tableting and Encapsulation.
- Support for cleaning process.
- 100% control of suppositories.
- Insight into all production processes: Granulation, Extruding, Rounding, Drying, Filming, Mixing, Compressing, Encapsulating and Packing (Strickpack).
- Insight into quality assurance systems such as deviation logs and change requests.

Jun 2013 -
Jul 2013

Intern

Royal Scientific Society, Amman, Jordan

Fields of Activity:

- Gas chromatography machine
- Atomic absorption spectroscopy (AAS) machine
- High-performance liquid chromatography
- X-ray structure analysis



Education

Expected in
Jul 2025

Master of Science: Data Science

Princess Sumaya University For Technology - Amman, Jordan

Sep 2015 -
Sep 2016

Master of Science: Cancer Pharmacology

University of Bradford - Bradford, UK

- Graduated with Distinction
- Dissertation: "Is RAN GTP expression correlates with the survival/relapse rate of lung cancer patients?"

Sep 2010 -
Sep 2015

Bachelor of Science: Pharmaceutical - Chemical Engineering

German Jordanian University - Amman, Jordan

- Graduated with 72% GPA
- Priority Modules: Advanced courses in Chemistry, Biology, Pharmacology, Microbiology, Analytical Chemistry, Instrumental Analysis and Engineering, Principles of Tissue Engineering
- Thesis: "Developing an Experimental Correlation between TGA and Fischer Assay Methods that are used to detect the amount of shale oil in the oil shale", German Jordanian University in Amman, Jordan
- Awarded Certificate of Excellence, German Jordanian University
- Awarded 3rd place in the Jordanian Engineers Association and the Amman Chamber of Industry competition for graduation projects at the level of Chemical Engineering departments in the Jordanian Universities

Sep 2013 -
Jan 2014

Bachelor of Science: Pharmaceutical Technology

Hochschule Albstadt- Sigmaringen - Sigmaringen, Germany

- Exchange Student for 6 months
- Priority Modules: Course in Biotechnology, Medicinal Chemistry, Organization and Management, Pharmaceutical Operation Management

Aug 1996 -
Sep 2010

High School Diploma

Al-Assriya (High School) - Amman, Jordan

- Degree: IGCSE/GCSE Program
- Graduated with 84.4 % (excellent) GPA



Certifications

Oct 2021

Basics in Medical Immunology Online Course

Jan 2016

Certificate of Excellence, German Jordanian University

Dec 2015

3Rd place in the Jordanian Engineers Association and the Amman Chamber of Industry competition for graduation projects at the level of Chemical Engineering departments in the Jordanian Universities

Nov 2015

Animals (Scientific Procedures) Act, 1986 Universities' Training group Certificate

May 2013

Goethe Certificate B1

Oct 2023

Certificate in the Analysis of Medical Data

Oct 2023

Introductory Applied Biostatistics for Health Care Professionals



Languages

Arabic (Mother Tongue)

English (Very good in speech and writing/ overall score of 6.5 in IELTS exam)

German (Very good in speech and writing/ Goethe Certificate B1)



Research Projects

08/2021-09/2022

" Establishing a fully differentiated 3D model for bronchial/ tracheal airway to study novel compounds with antiviral activities", Hamdi Mango for Scientific Research, The University of Jordan, Amman, Jordan
09/2014 – 06/2015

"Developing an Experimental Correlation between TGA and Fischer Assay Methods that are used to detect the amount of shale oil in the oil shale", German Jordanian University in Amman, Jordan
05/2016 – 09/2016

"Is RAN GTP expression correlates with the Survival/Relapse Rate of Lung Cancer Patients?" , University of Bradford, UK



Publications

- Yasser Bustanji, Noor Braham, Abdelkarim Hiari Mohammad Mohammad, Majd Alnajjar, Bashaer Abu-irmaileh, and Hana Bajes."Clinical investigation of lipoprotein (a) levels in type 2 diabetics for cardiovascular diseases prediction and prognosis". Hormone Molecular Biology and Clinical Investigation (2022).



Workshops Attended

- Workshop on Processing and Utilization of Oil Shale, Amman, Jordan, 5th Nov. 2014
- Workshop on Nanotechnology: Incorporation in Industry, Amman, Jordan, 4th Nov. 2014
- Workshop on Cancer Care Informatics, Amman, Jordan, 19-21st Nov.2018



Computer Skills

- Excellent with Microsoft Office
- Excellent in Bioinformatics (RStudio Program, Python)
- Basic knowledge of C
- Software/ Web development
- SPSS Data Analysis
- SQL Databases



Additional Skills

- ◆ Research and analysis
- ◆ Data Analysis
- ◆ Lab Work
- ◆ Academic research
- ◆ Research reporting
- ◆ Technical writing
- ◆ Experimental design
- ◆ Grant writing
- ◆ Academic Referencing (Endnote)
- ◆ Training and development
- ◆ Teamwork/ Collaboration
- ◆ Website developer
- ◆ Biostatistics



Additional Courses

- Intercultural Communication Course at GJU in Amman, Jordan
- Entrepreneurship Course at GJU in Amman, Jordan
- Computing Fundamental Course at GJU in Amman, Jordan
- AutoCAD Software Program Course at GJU in Amman, Jordan
- Matlab Software Program Course at GJU in Amman, Jordan
- Python Online Course
- Advanced Courses in Immunology and Cancer Immunotherapy
- Introductory Applied Biostatistics for Health Care Professionals
- Analysis of Medical Data



Interests

Reading (A member of a Book Club since 2019, A Bookstagram page for Book Reviews)

Traveling (cultural tourism in several Middle Eastern and European countries)

Cycling

Pottery

Dabke Folk Dance



Further Information

Marital Status

Single

Nationality

Jordanian

Place of Birth

Amman, Jordan

Date of Birth

11/01/1993

Professional References

1. Dr. Helen Sheldrake

Assistant Professor

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2. Prof. Yasser Bustanji

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