

AHMAD ELWAN

Doha, Qatar

+97470691879

aelwan94@hotmail.com

Nationality *Jordanian*

PROFILE

Experienced lab technologist specializing in zebrafish facility management in the Biomedical Research Center at Qatar University. Adept in analyzing research data and applying it to better understand the life-cycle of diseases.

EMPLOYMENT HISTORY

❖ **Lab Technologist - Zebrafish Facility, Biomedical Research Center, Qatar University** Aug 2023 — Present
Doha

- Operated and maintained laboratory equipment, ensuring optimal performance and reducing downtime
- Mentored and trained new laboratory technicians in laboratory procedures and safety protocols
- Manage daily operations of the zebrafish facility, ensuring the health and well-being of zebrafish colonies.
- Coordinate breeding programs, monitor water quality, and maintain optimal environmental conditions for zebrafish.
- Perform routine health checks, administer treatments, and maintain detailed records of zebrafish colonies.
- Collaborate with researchers to design and execute zebrafish-based experiments, providing technical expertise in handling and manipulating zebrafish.
- Conduct genotyping and phenotyping experiments, including the collection and analysis of genetic and phenotypic data.
- Implement and maintain strict quality control measures to ensure the reproducibility and accuracy of experimental results.
- Train and supervise research personnel, including students and technicians, in zebrafish handling and experimental protocols.
- Collaborate with scientists and researchers on various projects, contributing to the advancement of biomedical research.
- Ensure compliance with institutional and ethical guidelines regarding the use of animals in research.
- Assist in the procurement of zebrafish-related supplies and equipment, as well as the management of the facility's budget.
- Stay updated on the latest developments in zebrafish research and contribute to the development of new protocols and techniques.
- Collaborate with the university community and external partners to facilitate interdisciplinary research involving zebrafish models.

❖ **Research assistant, Qatar university (CMED)** Mar 2022 — Jul 2023
Doha

- Assisted in the development of experiments to test hypotheses, resulting in more accurate and reliable research results
- Developed a research database to store and organize data from the research project
- Conducted a literature review to identify the latest research in a field of study, allowing for more informed decision-making on the research project
- Developed a computer model to simulate the behavior of complex systems, resulting in improved accuracy of the research results
- Used data visualization tools to present the research findings in an engaging and accessible way
- experience using a variety of laboratory techniques such as mammalian cell culture (neural cell line), fluorescent and confocal microscopy, tissue processing and dissociation, and whole mount and cross-section
- Current research interests include studying a) the molecular pharmacology and signal transduction pathways involved in breast and brain cancers, diabetes and/or hypertension-induced cardiovascular dysfunction; b) the nanotoxicology and biological activity of novel drug delivery systems especially for gene silencing nucleic acid-based nanomedicines and c) the impact of pharmacotherapy on clinical outcomes in COVID-19 patients.

- Responsible for meta-analysis research on finding the bio-molecular markers for certain diseases by using different web-based tools (network analyst), and software such as (cytoscape, GSEA, Bio-conductor)

❖ **Lecturer and Trainer, Open Skies International Academy (OSIA)** Apr 2022 — Mar 2023
Amman

- Offers a wide range of training courses and diplomas in the molecular biology, bio-informatics, biological fields.

❖ **Laboratory technician and trainer, al-faiha'a (central laboratories directorate)** Sep 2020 — May 2021
Amman

- Trained and supervised junior laboratory technicians to ensure proper use of laboratory equipment and safety protocols
- Conducted laboratory maintenance to ensure cleanliness and proper functioning of laboratory equipment
- Collected and prepared laboratory specimens for testing, ensuring accuracy and prompt delivery to the laboratory
- Performs COVID-19 testing for the ministry of health. And training for the technicians that need to be working in the newly opened laboratories in developed cities around the country under the supervision of the ministry of health

❖ **Research assistant, Jordan university of science and technology** Jan 2017 — Jan 2019
Irbid

- Research assistant in the faculty of basic veterinary medicine in Jordan university of science and technology and responsible for parasitology research lab investigation the pathology of horses, cats, dogs.
- performing different types of DNA analysis techniques such as DNA extraction, (conventional, Real-time, nested, semi-nested, RT, multiplex) PCR, and sanger sequencing.
- In addition, I performed various types of qualitative and quantitative ELISA tests for different species of parasites, and Interprets results obtained and prepares test reports

❖ **Research assistant, Yarmouk University** Jun 2017 — Jan 2019
Irbid

- Oversaw multiple research projects investigating the resistance of clinically isolated bacteria toward multiple antibiotics via molecular microbial technology. And Interprets results obtained and prepares test reports.

EDUCATION

❖ **Jordan University of Science and technology** Sep 2012 — Jan 2017
Irbid

BSc in Biotechnology and genetic engineering

Graduated with 3.1 GPA with high honors

SKILLS

Problem Solving	<i>Expert</i>	Effective Time Management	<i>Expert</i>
Creativity	<i>Expert</i>	Computer Skills	<i>Expert</i>
Decision Making	<i>Expert</i>	Ability to Work Under Pressure	<i>Expert</i>
Leadership Skills	<i>Expert</i>	Microsoft Office	<i>Expert</i>
Ability to Multitask	<i>Expert</i>	Ability to Work in a Team	<i>Expert</i>
Fast Learner	<i>Expert</i>	Communication Skills	<i>Expert</i>
Adaptability	<i>Expert</i>	Critical thinking and problem solving	<i>Expert</i>

COURSES

❖ **Zebrafish Husbandry and Water Quality Training** 2023

Biomedical research center, Qatar university

❖ **Clinical attachment in the department of molecular pathology** 2019
Hamad medical corporation

❖ **cell therapy** 2016
cell therapy center, university of jordan

LANGUAGES

Arabic *Native speaker* German **B1**
English *Highly proficient*

PERSONAL PUBLICATIONS

❖ **Darmani H, Elwan AT, Abu Shaban AM. (2018).** 2018
The effects of different essential oils on growth, mitochondrial activity, germ tube and biofilm formation of *Candida albicans*.

❖ **Barrak, Laila; Elwan, Ahmad; Habib, Abdella Mohammed; Akhtar, Sakhir. (2022)** 2022
Targeting the epidermal growth factor receptor (EGFR) as a treatment for neuropathic, cancer, and inflammation pain". (Submitted for review)

TECHNICAL SKILLS

❖ **Laboratory Techniques**
Mammalian cell culture, microscopy (fluorescent and confocal), tissue processing, genomics/proteomics techniques, Raman spectroscopy.

❖ **Data Analysis**
Meta-analysis, web-based tools (network analyst), software (cytoscape, GSEA, Bioconductor), computational biology.

❖ **Software Proficiency**
Proficient in Microsoft Office Suite, data analysis software (e.g., Excel, GraphPad Prism), bioinformatics tools, computational biology software.

❖ **Computational Biology**
Experience in analyzing genomic data, transcriptomics, and proteomics data using computational tools and algorithms. Proficient in mathematical modeling for biological systems.

❖ **Mathematical Modeling**
Expertise in developing mathematical models to simulate and predict biological processes. Familiarity with modeling techniques such as differential equations, stochastic modeling, and network modeling.

❖ **Raman Spectroscopy**
Knowledge and practical experience in Raman spectroscopy techniques for molecular analysis and characterization.

❖ **Training and Teaching**
Lecturing, training program development, student mentorship.