

# Ma'en Al-Odat

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## Objective

I have knowledge of many different types of bioinformatic software, including investigating bacterial whole genome sequences and I have developed good expertise in writing programming scripts. In the lab environment, I am confident in performing many antimicrobial susceptibility protocols (using both obligately and facultatively anaerobic bacteria) and performing various other microbiological and molecular biology techniques.

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## Education

**PhD,  
University of  
Aberdeen**

Aberdeen, UK

Thesis title: Assessment of the evolution of mosaic genes, ribosomal protection proteins conferring tetracycline resistance in *Campylobacter* as a model.

Studying antimicrobial resistance (AMR) genes for:

1. Their distribution within approximately 7000 whole genome sequences of *Campylobacter jejuni* and *Campylobacter coli*. Bioinformatic work was performed to investigate the distribution of AMR genes using a high-performance computing system supported by UNIX.
2. High level of competency in working with genome sequences, phylogeny of clonal complexes, sequence types and core genome MLST (Multi-Locus Sequence Type) of *C. jejuni* and *C. coli*.
3. Performing microbiological protocols and growing microorganisms, aerobically and anaerobically (Gut bacteria) and microaerophilically (*Campylobacter*). Optimising protocols to achieve expected growth of various organisms.
4. Performing several molecular biology protocols such as mRNA expression of genes using Reverse Transcriptase real time PCR, conventional PCR, gel electrophoresis and DNA and RNA extraction of different organisms.
5. Having the ability to establish protocols and testing them experimentally and statistically.
6. Ability to work under pressure and deadlines.

**Master Medical  
Microbiology  
Jordan University  
of Science and  
Technology**

Irbid, Jordan  
2014

Dissertation was on the impact of *E. coli* virulence factors on patients with urinary tract infections.

**Bachelor Medical  
Laboratory Science  
Jordan University of  
Science and  
Technology**

Medical Laboratory Science. A comprehensive taught program to provide knowledge about medical lab work such as: Microbiology, Immunology, Haematology, Biochemistry and Immunohematology.

Irbid, Jordan  
2010

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## Work Experience

### Senior

**Technologist  
Arab Consultant  
Group**

Amman, Jordan  
Dec 2014 / Dec  
2016

1. Supervising the process of obtaining and processing the medical specimens in medical lab.
2. Monitoring the quality control process for various medical devices and experiments.
3. Training employees and validate their capability of doing medical lab work.

### Medical Lab Technologist

Candidate had four years' experience as medical lab technologist in microbiology, biochemistry and Haematology

## Publications

1. Sheridan, P. O., Odat, M. E. A., & Scott, K. P. (2023). Establishing genetic manipulation for novel strains of human gut bacteria. *Microbiome Research Reports*.
2. Shakhathreh, M. A. K., Swedan, S. F., Ma'en, A., & Khabour, O. F. (2019). Uropathogenic Escherichia coli (UPEC) in Jordan: Prevalence of urovirulence genes and antibiotic resistance. *Journal of King Saud University-Science*, 31(4), 648-652.

## Skills

- **Microsoft office:** Expert
- **High level of communication skills and capable of managing events and collaborators:** Advanced level
- **working as senior medical technologist has provided me the ability of determining problems and solving them:** Expert
- **Having the experience of leading a team:** Expert