

# DR ASEEL SHARAIREH

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## VISION STATEMENT:

Basic medical and dental sciences are the building block of knowledge for medical and dental practitioners, of which apprehension stems and solutions unravel. It is the mathematics to computer sciences and the physics to engineering. I want to ensure that students during their preparatory years have a thorough comprehension of basic dental sciences, its importance and its applications in clinical practice.

## EDUCATION

*Doctor of Philosophy: Stem cell biology (Basic dental sciences) – University of Manchester 2020*

*MFD RCS Ireland 2011*

*Doctor of Dental Surgery, the University of Jordan Amman 2005-2010*

*Tawjihi Certificate. Jordan 2005*

## EXPERIENCE

### | University of Manchester |

#### **PhD Student** Jan 2016- 2020

- My PhD project investigates the role of cadherins in regulating the metabolism of embryonic stem cells and induced pluripotent stem cells in mouse and human models.
- During this project I have characterized the proteomic changes that take place in the mouse and the human models using iTRAQ reagents and Mass spectrometry. This was followed by metabolic assays and network models using functional assays, bioinformatics tools and computational software.
- During my PhD I was responsible for managing laboratory orders for consumables and products for our research group. I was also responsible for arranging the monthly lab and journal club meeting for our research group. I allocated the subjects of the meetings and booked the rooms.

#### **Graduate Teaching Assistant School of Biology, Medicine and Health** Sept 2016- March 2019

- My duties included demonstrating diverse laboratory practicals in basic medical sciences such as Biology, Microbiology, Histology, Neuroanatomy, and Physiology for first and second year medical, biomedical and dental students. Other duties included marking and uploading the marks with feedback to undergraduate students.

### | University of Jordan |

#### ➤ **Stem Cell Therapy Centre**

#### **Research Assistant** Sept 2014- Nov 2016

- During this period of time I have learned basic lab techniques including Stem cell culture and maintenance, Flow Cytometry, DNA extraction and cloning, Extraction of mesenchymal stem cells from patients and extraction of dental pulp stem cells from teeth.
- I assisted in an animal study that uses mesenchymal stem cells to treat critical size bone defects in rabbit models.

#### ➤ **School of Dentistry**

#### **Teaching Assistant** Sept 2014- Nov 2016

- My Duties included supervision of third to fifth year dental students throughout their clinical practical sessions this included setting up initial treatment plans for restorative and prosthetic procedures for different patients, providing help and guidance whenever needed throughout the clinics and making sure students were providing a safe practice.

### | AL-Salem dental polyclinic- Amman/ Jordan |

#### **General dental practitioner** June 2013- Sept 2014

- My work duties included all disciplines of general dentistry with special emphasis on endodontic work.

### | Concepts Dental Centre |

#### **General dental practitioner** Jan 2011-June 2013

- My work duties included all disciplines of general dentistry with special emphasis on restorative work.

## SKILLS

### Subject Specific Skills

- I have done extensive proteomic experiments and functional metabolic assays.
- I am experienced in culturing and maintaining human and mouse pluripotent stem cells
- I have used different types of computational software to analyze data and I have tested the generated data using versatile statistical measures.
- I have created network models for my data using computational biology tools and applications

### Managerial and Networking Skills

- I am a Member of International Association of Dental Research (the largest, most influential association in dental research). The IADR meeting is held annually and it provides an opportunity for all researchers from different disciplines to communicate and collaborate.
- I am a Green impact auditor at the University of Manchester and a certified Carbon Literacy Trainer. My role is to provide training for our lab users and implement measures in the lab that make a difference to sustain the environment.
- I have signed up for 500 Women Scientists/ Manchester Pod. After joining this group I have created a Pod in my home country (Amman-Jordan) that aims to help women who are in science, engineering and education to get support and access a network of highly qualified women. The next stage of this Pod is to arrange regular meetings for women to collaborate and network.
- I have arranged and delivered a half day workshop (alongside three other PhD students) for postgraduate students to inform them about teaching opportunities that are available for them.
- I have participated with our research group in the Science Spectacular 2016 and 2018 event to demonstrate to school children (aged between 4-12 years) the concept of proteomics and liquid chromatography simplified using a teddy bear and some pH and chromatography papers.
- I have volunteered to meet with school students who are about to do work experience and talked to them about career options available.
- I am currently involved in the organization of the School of Biological Sciences Annual Meeting. My role is to generally create a theme for the meeting and help choose speakers. I am allocated to arrange the poster section and screen. This volunteering opportunity has allowed me to work with highly esteemed members in the faculty who are currently holding senior positions or heads of departments.

## Trainings

I have attended the following training workshops:

- Writing for Oral Presentations
- Secrets of Academic Writing
- Harnessing your Research Creativity
- Communicating Effectively
- Data Protection
- Getting Ahead in Academia
- Unconscious Bias - Equality and Diversity
- Diversity in the Workplace
- Good Clinical Practice
- Foundations of Good Teaching
- Designing Research Posters
- Communicating with Confidence
- Introduction to Effective Presentation Skills
- Systematic Review Training
- Critical analysis of research papers
- Introduction to Research Project Management
- Getting the most out of research conferences
- How to Write a Successful Grant Application
- How to Secure a Fellowship
- Research Presentation Skills in Action
- Introduction to Python
- Introduction to MATLAB
- Creating interactive data visualizations with R and Shiny
- Gas and Liquid Chromatography Workshop
- MERICA New Scientist workshop
- Dental Stem Cells – Resolving Contradictions and Looking Forward

## RESEARCH PAPER AND PRESENTATIONS

- Epithelial cadherin regulates transition between the naïve and primed pluripotent states in mouse embryonic stem cells.

Sharairah AM, Fitzpatrick LM, Ward CM, McKay TR, Unwin RD. STEM CELLS 38.10 (2020): 1292-1306.

- IADR March 2017 San Francisco, US. Oral Presenter at a joint symposium with the University of Boston.
- MERICA Stem Cell Conference 2016 Manchester, UK. Poster Presentation .
- Oral and poster presentation at DAGS conferences- April 2017 and April 2018
- Oral presentations in local seminar series of the Cell Dynamics and regenerative medicine research group at the University of Manchester.