

## **Fadheela Dad Bakhsh ArzeMohammed**

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### **Objective:**

A highly motivated individual, with eight years' work experience in the laboratory and research field. Seeking career in health, research and laboratory works to contribute self-capabilities in the laboratory efficiency, also for the self, personal and professional development.

### **Educational Qualification**

- Master in biomedical sciences-advanced clinical practice from Qatar University GPA 3.6 Spring 2016
- Bachelor in biomedical sciences from Qatar University GPA 3.54 Spring 2013
- High school certificate - Qatar 94.5% 2008

### **Additional Achievements**

Title	Place/Organizer	Year
• Basic Life Support course (BLS)	HMC-Qatar	March 2017 and March 2014
• Completed a course in SPSS program	Qatar University	March 2014
• Completed IATA course for dangerous goods transport on [certified dangerous goods shipper]	MoPH-Qatar	December 2014
• Completed Infectious Substances Shipping Training (ISST) by WHO and IATA [certified dangerous goods shipper]	MoPH- Qatar	October 2018 and 2020
• Completed the CITI Program course in Animal Biosafety	Qatar	26-Sep-2021
• Completed the CITI Program course in Working With Animals In Biomedical Research -Refresher Course	Qatar	18-Oct-2020
• Completed the CITI Program course in Working with Fish in Research Settings	Qatar	26-Jul-2018
• Completed the CITI Program course in Working With Zebrafish (Danio rerio) in Research Settings	Qatar	26-Jul-2018

### **Professional Experience**

#### **LAB TECHNOLOGIST (QATAR UNIVERSITY) 2015 till Date**

- Preparing various test specimen, chemical solutions for growth media and deferent lab experiments

- Performing lab tests on food samples for the molecular detections of Noro virus and HAV etc received from Central food laboratories (performing service tests for BRC)
- Performing microbiological tests like Brucella antibody test and water culture test for detection of Legionella spp.
- Performing different genomic test using real time PCR and cycler PCR.
- Knowledge of experimental procedures, protocols, and preparation techniques within area of specialty.
- Knowledge of related accreditation and certification requirements. Successfully achieved ISO 17025 certification for Legionella spp (a microbiology test) in 2018, Brucella (a Ab/Ag test) in 2018 and 2020 and FMD (Molecular RT-PCR) tests in 2020 for the BRC labs.
- Ability to set up, calibrate, operate, and maintain standard laboratory and test equipment.
- Ability to write SOPs for tests and equipment
- Knowledge of the cleaning specifications of various laboratory equipment, fixtures, utensils, and related materials. Supervise the cleaning procedure of critical mammalian cell culture labs.
- Assists students in lab experimentation, as appropriate; provides guidance in learning and/or functional operation of experiments and equipment.
- Provide and assist in training programs in the Center
- Technical and financial evaluation of purchase orders(POs)
- Evaluating different Quotations and placing orders for equipment, materials and reagents
- Keeping and updating labs inventory
- Keeping equipment well maintained, and follow up the yearly maintenance.

### **Research Assistant 2013 to 2015( 3 years)**

- Worked on 150 samples with BD fortessa flow cytometer on a project entitled “Immunophenotyping of Peripheral Blood Lymphocyte Subsets in Healthy Qatari Adults” 2013
- Worked on project “Gold Nano-particle-Based Assays for Direct and Cost Effective Detection of High Burden Infections“[NPRP 4-1215-3-317]; collected 100 HCV samples and did RNA extraction in addition collected 110 Tuberculosis(TB) samples from HMC

TB lab and did DNA extraction; optimized a gold nanoparticle assay for detection of both HCV and TB.

- Trained and assisted one Master students in the same project.

### Achievements

Name	Place/Organizer	Year
• Poster Presentation in the First Youth Scientific Forum	Qatar Ministry Of Culture, Arts & Heritage	2013
• Poster Presentation in the Junior Scientists Symposium	ADL	2013
• Co-investigator in Graduation Project entitled” association of single nucleotide polymorphisms with coronary artery disease in Qatar” between Qatar university and HMC from 2011-2013 [UREP 10-030-3-007] :	Qatar University	2011-2013
<ul style="list-style-type: none"> <li>▪ Worked with EZ1 advanced instrument for blood DNA extraction and on real time PCR applied bio-system 7500 [allelic discrimination] on 4 SNPs and additional 9 different SNPs with Dr. Nasser Rizk</li> <li>▪ Collected blood samples from Qatar Heart Hospital and Hamad outpatient children clinic [personal interaction with patients]</li> </ul>		
• Completed the Hamad Medical Corporation Corporate Orientation Program	HMC	Feb 2013
• Laboratory work skills in Qatar University Laboratories and five month training course in HMC laboratories 2013	HMC and Qatar University	2013
• Poster presentation in Qatar Foundation Annual Research Conference 2013[ARC’13. Citation: <i>Fadheela Bakhsh. (2013). Associations Of Single Nucleotide Polymorphisms(Rs2383207) On Chromosome 9P21 With Coronary Artery Diseases In Qatar. Qatar Foundation Annual Research Forum Proceedings: Vol. , BIOSP 035. DOI: 10.5339/qfarf.2013.BIOSP-035</i>	Qatar Foundation	2013
• Oral presentation in HMC Fifth Assembly of the Research Forum on Diabetes, Obesity and Metabolism	Metabolic Institute in Qatar	26 <sup>th</sup> May 2016
• Poster Presentation in Qatar University annual research forum 2016	Qatar University	2016

- Poster Presentation in first annual Health Research Retreat of Qatar University (HRR/QU) Qatar University 4<sup>th</sup> June 2016
- Participated in the “Medical Education Winter Camp” Qatar university 2016 -17
- Master Thesis in BIOMEDICAL SCIENCES “The Contribution of Toll-Like Receptors in the Pathogenesis of Diabetic Retinopathy in Human Microvascular Retinal Endothelial Cells” Qatar university 2015-2016

### **Conferences and Workshops:**

Name	Place /organizer	Year
• First Regional Nutrition Conference: Nutritional Challenges in the East Mediterranean Region	Qatar university	March 2011
• First Aid lecture	Qatar University	March 2011
• Aging and Health forum	Qatar University	April 2012
• Reorientation session on Hazardous Material & Waste Management	HMC	2013
• Reorientation session on Fire Safety	HMC	Feb, 2013
• Qatar foundation annual research conference ‘ARC 13’	Qatar foundation	2013
• Qatar foundation annual research conference ‘ARC 14’	Qatar foundation	2014
• CAS safety awareness week workshop	Qatar University	Started 23 <sup>rd</sup> Feb,2014
• Biological safety principles and practices	HMC	May 2014
• Spill kit training		25 <sup>th</sup> Jun 2014
• Epidemics Preparedness and Hajj Symposium	HMC	30 <sup>th</sup> August 2014
• Lumenix Technology workshop: Biomarker Assays using Multiplex technology	Qatar University	07 <sup>th</sup> -08 <sup>th</sup> March 2015
• Flowcytometry Experiment Design & Data Analysis workshop	Qatar University	26 <sup>th</sup> No2015
• Hazardous Materials and waste management Course	Qatar University	Jan,2016
• Training on “thermos scientific Multiskan FC Plate reader & well Wash Washer	Qatar University	April 2016
• 3rd Middle East Molecular Biology Congress and Exhibition held in	Research complex Qatar University	14-17 Nov, 2016
• Training on Real time PCR and application conducted by Sedeer Medical	Qatar University	13 <sup>th</sup> April 2017
• Completed training course on Brucella c-ELISA Antibody test	Qatar University	3 <sup>rd</sup> -7 <sup>th</sup> Dec

		2017
• Animal Ethics Awareness Day	Qatar University	27 <sup>th</sup> Feb,2018
• Qatar foundation annual research conference ‘ARC 18’	Qatar foundation	March 2018
• Completed training course on Molecular Diagnosis of Viral Pathogen (FMDV)	Qatar University	18 <sup>th</sup> -20 <sup>th</sup> August 2019
• DS2 automated system training by Ali Al-Suwaidi company	Qatar University	November2020
• Virus Genomics and Bioinformatics Workshop	Qatar University	November2021

### **Awards**

Award Name	Place	Year
• Enrolled in the dean list college of art and science	Qatar University	Spring and Fall 2010, Spring 2011, 2012 & 2013
• Won the 1 <sup>st</sup> prize in the First Youth Scientific Forum	Qatar Ministry Of Culture, Arts & Heritage	2013
• Won the 1 <sup>st</sup> prize in the Junior Scientists Symposium	ADL	2013
• Won the best poster award for graduate poster in Qatar university annual research forum	Qatar university	3 <sup>rd</sup> May, 2016
• Won the first prize in the first annual Health Research Retreat of Qatar University (HRR/QU)	Qatar university	4 <sup>th</sup> June, 2016.

### **Volunteer Work**

Volunteered in Qatar University in swine flu campaign in 2009

Volunteered in Qatar University in the organization of the Science collage open day on May 2010

Participated in the scientific day of college of art and science QU 2011

Participated in the” World AIDS Day 2011: Stigma and discrimination in health care settings” held at Qatar university on December 2011

Participated in the scientific day of college of art and science QU 2013

Organizer for workshop “Emerging Pathogens at the Human – Animal environment Interface” on October 2016

## Publications

1. Al-Saadi, Tahani M, Eltai, Nahla O, Hamdi, Wedad S, **Bakhsh, Fadheela Dad**, Azazzy, Hassan, Al-Ansari, Nasser, & Al-Thani, Asmaa. (2017). **Colorimetric gold nanoparticles-based assay for direct detection of Clostridium difficile in clinical isolates from Qatar**. *African Journal of Microbiology Research*, 11(19), 756-763. (Available summer 2018).
  2. Doss, C. George Priya, Alasmar, Dima R., Bux, Reem I., Sneha, P., **Bakhsh, Fadheela Dad**, Al-Azwani, Iman, . . . Zayed, Hatem. (2016). **Genetic Epidemiology of Glucose-6-Phosphate Dehydrogenase Deficiency in the Arab World**. 6, 37284. doi: 10.1038/srep37284  
<https://www.nature.com/articles/srep37284#supplementary-information> (Impact Factory: 4.259).
  3. El-Menyar, Ayman A, Rizk, Nasser M, Al-Qahtani, Awad, AlKindi, Fahad, Elyas, Ahmed, Farag, Fathi, **Bakhsh, Fadheela Dad**, Ebrahim, Samah, Ahmed, Emad, Al-khinji, Mooza, Al-Thani, Hassan, Al Suwaidi, Jassim. (2015). **The cardiovascular implication of single nucleotide polymorphisms of chromosome 9p21 locus among Arab population**. *Journal of research in medical sciences: the official journal of Isfahan University of Medical Sciences*, 20(4), 346. (Impact Factory: 1.24).
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## Languages:

- Fluent in English oral and written
- Fluent in Arabic oral and written
- Fluent in Urdu/Hindi oral
- Fluent in Baluchi (native language)
- Basic understanding of Korean Language (Self learning)

## Extra Perfection:

- Assimilative and good interpersonal skills
- Ability to work under pressure
- General computer skills, Proficient in Word, PowerPoint, and Excel
- Excellent written and verbal communication skills
- Ability to work alone and in team environment