

# FATHEIA NABEIL HAMZA

## Personal information:

- **Name:** Fatheia Nabeil Hamza.
- **Nationality:** Sudanese
- **Date of Birth:** 25th Aug 1983
- **Gender:** female.
- **Marital status:** married.
- **Current address:** Alfaisal University, Riyadh, Saudi Arabia.
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## Education:

- 2015-2017 [Faculty of Medicine, Alfaisal University], [Master of Science in Biomedical science].
- 2001-2007 [Faculty of Science, University of Khartoum], [Khartoum, Sudan], [Bachelor of Science (Honours) first class, Zoology].
- 1999-2001 [Al-Tanouma high school], [Al-Qassim, Saudi Arabia], [First-class, 94% grades, scientific section].

## Work experiences:

- Sep2018- till now- **Lecturer- College of Medicine-** Biochemistry and molecular medicine department [Alfaisal University], [Riyadh, K.S.A].
- Sep2015-August 2018 - **lab specialist- College of medicine-** Biochemistry and molecular medicine department [Alfaisal University], [Riyadh, K.S.A].
- Apr 2014- Aug 2015 [Enjaz Medical Modern company], [Riyadh, K.S.A].  
Job title: lab instrument specialist.
- Dec 2013-Apr 2014 [King Faisal Specialized Hospital & Research Centre, Molecular Oncology Department], [Riyadh, K.S.A].  
Job title: trainee/ laboratory technician.  
During this period of time I was introduced to the following techniques:
  - **Cell culture.**
  - **Macrophages and Neutrophils isolation.**
  - **In vitro transwell migration.**
  - **Flow Cytometry applications including:**

- Surface and intracellular molecules staining.
- DNA cell cycle analysis.
- Cell viability.
- Florescent Activated and Magnetic Activated Cell sorting (FACS & MACS).
- Data analysis and storage using the Cellquest and ProCell quest software.

**Molecular Biology techniques:**

- DNA & RNA extraction and cDNA synthesis
- PCR quantification and real time PCR.
- Mycoplasma test for the cultured cell.

**Proteomics:**

- Protein extraction.
- Protein quantification: Bradford method.
- Western blotting.
- Simple western <sup>TM</sup> assay (Simon).

- Oct 2011-Nov 2012 [King Faisal Specialized Hospital & Research Centre, Stem cell & tissue re-engineering program], [Riyadh, K.S.A].

Job title: trainee/ laboratory technician.

**Laboratory techniques:**

- Isolation of peripheral blood mononuclear cells (MNCs) from cord blood and bone marrow samples.
- Handling of long term cultures and cell differentiation.
- 2009-2010 [University of Medical Science & Technology], [Khartoum, Sudan].

Job title: Teacher assistant in biology laboratory for foundation year.

- 23rd Feb-23rd May 2009 [Department of molecular biology & immunology, Institute of Endemic Diseases], [Khartoum, Sudan].

Job title: trainee/ laboratory technician.

**Laboratory Techniques:**

- Direct Agglutination Test.
- Diagnosis of leishmaniasis via smear, culture, and Leishmanin Skin Test (LST).
- Diagnosis of Tuberculosis using PCR technique.

- 2008-2009 [Faculty of Science, University of Khartoum], [Khartoum, Sudan].  
Job title: Teaching assistant collaborator in biology laboratory for 2nd year.

**Laboratory Techniques:**

Animals' dissection.

- 12th Aug.-26 Sep. 2008 [Department of Virology & Haematology, Pasteur Institute, Ministry of Health], [Casablanca, Morocco].

**Laboratory Techniques:**

- ELISA.
- Basic clinical Haematology tests (CBC, PT, PTT, and ESR).

**Professional trainings:**

- 12<sup>th</sup> Feb- 16th Feb 2017 [1st introductory immunology for medical research], [King Faisal Specialized Hospital & Research Centre, [Riyadh, K.S.A].
- 3rd Jan- 28th Mar 2014 [Introduction to Genetics & Evolution, Duke University, non-credit online course, Coursera]
- 11-12th Feb 2013 [Postgraduate Induction Course], [King Faisal Specialized Hospital & Research Centre, [Riyadh, K.S.A].
- 29th May 2012 [How to make yourself more employable], [King Faisal Specialized Hospital & Research Centre, [Riyadh, K.S.A].
- 15th-17th Feb. 2010 [Research Methodology Workshop, Dermatology & Venereology Teaching Hospital], [Khartoum, Sudan].
- 12th -23rd Jul. 2009 [AMIPHARMA Laboratories Ltd], [Khartoum, Sudan].
- 4th -9th May 2009 [introductory course in Bioinformatics, biosciences eastern & central Africa (BecA) Hub], [Nairobi, Kenya].

**Interests and activities:**

- Member in Sudanese Natural Heritage Society since 2004.
- Member in Zoology Department Society (2002).
- Membership in Life Makers Organization since 2003.
- Member of Sudanese Academy of Young Scientists (SAYS) since 2009.

## Attended conferences & workshops:

- 26<sup>th</sup>-27 Mar 2019, PROTEOMICS MASS SPECTROMETRY COURSE, KFHS&RC
- 5<sup>th</sup> Feb 2019, Computer- based Clinical Research training course, NIH Office.
- 20<sup>th</sup> Nov 2019, research electronic data Capture (REDCap), [King Faisal Specialized Hospital & Research Centre, [Riyadh, K.S.A].
- 30<sup>th</sup> Oct. 2018. Correlation and Regression Analysis Workshop. King Saud bin Abdulaziz University for Health Sciences.
- 12<sup>th</sup> -13<sup>th</sup> October 2018, ASCO Cancer Training Program, Alfaisal University.
- 29<sup>th</sup> Mar 2018 Second Symposium on computational and mathematical medicine, Alfaisal University.
- 21<sup>st</sup> Mar "Saudi MED Competency Framework" Workshop, Alfaisal University.
  
- 1<sup>st</sup> Apr. 2018 Introduction to IBM SPSS statistical Package workshop (SIMEC 2018), Alfaisal University.
- 18<sup>th</sup> Nov. 2017, Problem- based learning workshop, Alfaisal University
- 14<sup>th</sup> - 15<sup>th</sup> Nov.2017, Team- based Learning workshop, Alfaisal University.
- 23<sup>th</sup> - 25<sup>th</sup> Oct 2017, The third international conference on mass gathering medicine, Alfaisal University
- 14<sup>th</sup> Oct 2017, Team- based Learning workshop, Alfaisal University.
- 20<sup>th</sup> Apr. 2017, Workshop on computational & mathematical Medicine, Alfaisal University. Lab Safety Course 12<sup>th</sup> Jan. 2017, Alfaisal University
- 11-Mar 2015 [MOLECULAR ONCOLOGY State of the art technologies mini-Symposium], [King Faisal Specialized Hospital & Research Centre, [Riyadh, K.S.A].
- 23-24<sup>th</sup> Apr 2014 [Stem Cell in Science & Medicine Symposium, King Abdullah International Medical Research Center], [Riyadh. K.S.A.].
- 16-17<sup>th</sup> Apr 2012 [Placental Mesenchymal Stem Cells Workshop, King Abdullah International Medical Research Centre], [Riyadh. K.S.A.].
- 12<sup>th</sup> May 2010 [Tuberculosis (TB) workshop, ministry of health], [Khartoum, Sudan].
- 17<sup>th</sup> -18<sup>th</sup> Jan. 2009 [Young Researchers from the Institute of Endemic Diseases Conference], [Khartoum, Sudan].
- 21<sup>st</sup> -23<sup>rd</sup> Aug. 2007 [8<sup>th</sup> scientific conference, Endemic and emerging Diseases: New Trends in Diagnosis and Control], [Khartoum, Sudan].
- 24<sup>th</sup> Jan 2007 [DNA Highlights: From Genes to Genome Symposium, University of Khartoum, Al-sharqa Hall.
- 13-15 Dec. 2005 [7<sup>th</sup> scientific conference, Biotechnology and Future Prospects]. [Khartoum, Sudan].

### **Special skills:**

- Intellectual scientific exercise (e.g. innovative approaches to experimental design, problem-solving capabilities, drafting preliminary reports etc.).
- Oriented with sample collection and obtaining consent forms from patients and healthy donors for research.
- Computer Literate-specialized in MS Office Application and Data Entry.
- Dual languages- Arabic and English (write and speak very well). Achieved a TOEFL score of 88/120 in 25th May 2014

### Presentation skills:

- Awarded the 3rd place in Three Thesis Minute Presentation competition, KFSH &RC.
- Awarded as the best program presenter in 2 conferences.

### Writing skills:

- Awarded the 2nd place in the 1st Research Centre writing competition 2012, KFSH &RC.
- Awarded for the best essay in a literature subject in high school.

Teaching skills: for example: biostatistics, cell biology, Molecular biology lab, biochemistry, and epidemiology.

Volunteered in many charitable projects in non-governmental organization.

### **Research & Publications:**

1- Role of T cells in LPS-induced lung inflammation and dysfunction, PI: Peter Ramutis Kvietys. Sponsored by KACKST (2M SR). Work description: graduate student & research assistant. Status (in progress)

2- Study of the association of *Vascular Endothelial Growth Factor* gene polymorphisms with hypertension, PI: Hanaa Hajeer. Sponsored by IRG (50,000SR). Work description: research assistant. Status (in progress).

3- Effect of SLCO1B1 gene polymorphisms and vitamin D on statin-induced myopathy. Sponsored by IRG. PI: Baraa Alghalyini. Work description: research coordinator. Status (published).

4- Ameera Gaafar, Ayodele Alaiya, Aminah Ghazi Alotaibi, **Fatheia Nabil Hamza**, Alia. Iqniebi, Pulicat Subramanian Manogaran, A Al-Mazrou, Iman Barhoush, Morad Ahmed Alkaff,

Hind Al-Humaidan, Khalid Al-Hussein. Cellular and Molecular Profiling of Primitive HSC Subsets in Umbilical Cord Blood samples: Implications for Cellular Therapy 2011 Annual Research Report, 16-17April 2014, Prince Salman Auditorium, KFSHRC, Riyadh KSA.

5- Ameera Gaafar, Ayodele Alaiya, Aminah Ghazi Alotaibi, **Fathea Nabil Hamza**, Alia. Iqniebi, Pulicat Subramanian Manogaran, A Al-Mazrou, Iman Barhoush, Morad Ahmed Alkaff, Hind Al-Humaidan, Khalid Al-Hussein. Cellular and Molecular Profiling of Primitive HSC Subsets in Umbilical Cord Blood samples: Implications for Cellular Therapy. The 43rd Annual Scientific Meeting of the ISEH-Society for Haematology and Stem Cells, August 21-24, 2014, Montreal, Canada. <http://www.iseh.org/?2014Montreal>.

### **Referees:**

**Name:** Rajaa Mohamed Adnan Fakhoury.

**Job title:** professor of Medical Biochemistry

**Department/Company:** Alfaisal University, college of medicine, biochemistry and molecular medicine department.

**Address:** P.O. Box. 3354, Riyadh 11211, Saudi Arabia.

**Work Tel:** 00966112157697

**E-mail:** rfakhoury@alfaisal.edu

**Name:** Ameera Gaafar, PhD

**Job title:** Scientist, stem cell & tissue re-engineering program

**Department/Company:** King Faisal Specialist Hospital and Research center.

**Address:** P.O. Box. 3354, Riyadh 11211, Saudi Arabia.

**Work Tel:** 009661 464-7272Ext.23805.

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