

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-till now [Faculty of medicine , Alfaisal University], [Master of science in Biomedical science].
- ❖ 2001-2007 [Faculty of Science, University of Khartoum], [Khartoum, Sudan] [Bachelor of Science (Honors) 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].

- ❖ Dec 2013-Apr 2014 [King Faisal Specialized Hospital & Research Center, Molecular Oncology Department], [Riyadh, K.S.A].

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 TM assay (Simon).

- ❖ Oct 2011-Nov 2012 [King Faisal Specialized Hospital & Research Center, 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].

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.
- ❖ 12thAug.-26 Sep. 2008 [Department of Virology & Hematology, Pasteur Institute, Ministry of Health], [Casablanca, Morocco].

Laboratory Techniques:

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

Professional trainings:

- ❖ 12thFeb- 16th Feb 2017[1st introductory immunology for medical research], [King Faisal Specialized Hospital & Research Center, [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 Center, [Riyadh, K.S.A].
- ❖ 29th May 2012 [How to make yourself more employable],[King Faisal Specialized Hospital & Research Center, [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:

- 11-Mar 2015 [MOLECULAR ONCOLOGY State of the art technologies mini-Symposium], [King Faisal Specialized Hospital & Research Center, [Riyadh, K.S.A].
- 23-24th Apr 2014 [Stem Cell in Science & Medicine Symposium, King Abdullah International Medical Research Center], [Riyadh. K.S.A.].
- 16-17th Apr 2012 [Placental Mesenchymal Stem Cells Workshop, King Abdullah International Medical Research Center], [Riyadh. K.S.A.].
- 12th May 2010 [Tuberculosis (TB) workshop, ministry of health], [Khartoum, Sudan].
- 17th -18th Jan. 2009 [Young Researchers from the Institute of Endemic Diseases Conference], [Khartoum, Sudan].
- 21st -23rd Aug. 2007 [8th scientific conference, Endemic and emerging Diseases: New Trends in Diagnosis and Control], [Khartoum, Sudan].
- 24th Jan 2007 [DNA Highlights: From Genes to Genome Symposium, University of Khartoum, Al-sharqa Hall.
- 13-15 Dec. 2005 [7th 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 Center writing competition 2012, KFSH &RC.
 - Awarded for the best essay in a literature subject in high school.
- ✓ Teaching skills: for example: biostatistics, cell biology, genetics, biochemistry, and

epidemiology.

- ✓ Volunteered in many charitable projects in non-governmental organization.

Abstracts:

1. 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.
2. 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. The 43rd Annual Scientific Meeting of the ISEH-Society for Hematology and Stem Cells, August 21-24, 2014, Montreal, Canada. <http://www.iseh.org/?2014Montreal>.

Referees:

Name: Rajaa Mohamed Adnan Fakhoury.
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Name: Ameera Gaafar, PhD
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