

REEM HAMAD

Curriculum Vitae

Name: Dr. Reem Salaheldin Khalid Hamad

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Objective:

A competitive, entrepreneur and goal-oriented person seeking to continue my career within translated researches.

I have a particular interest in Molecular biology, Genetics, cancer, Neuroscience, Data analysis and Clinical genetic as a result of my acquisition of knowledge and passion during my clinical life, my master study and working with Prof Muntaser Team. I believe that I have the special skills, interest and passion needed to provide support to my colleagues and work in Researches field .

Education:

- **2019-2021: M Sc of Bioinformatics.**

Faculty of Medicine, National university.

Modules are studies over 2 years: Basic Molecular biology, Proteomic, Object Oriented programming and Python, Algorithm and data structures, Databases, Introduction to bioinformatics, Computational Biology, Sequence alignment, Data mining, Research methodology, Statistics, Drug Design and Vaccine Design.

- **2016-2018: M Sc of Molecular Medicine**

Institute of Endemic Diseases, University of Khartoum.

Modules are studied over 2 year include: Molecular Cell Biology, Basic Immunology and Microbiology, Developmental and Neurobiology, Molecular Genetics of Infectious and Non-Infectious Diseases, Clinical Genetics, Applied Molecular Pathology, Population

Genetics and Evolutionary Medicine, Recombinant Molecular Biology Techniques, Molecular and Immune-Diagnosis, Computational Biology and Bioinformatics, Research Methodology and Experimental Design/Ethics and Bio-safety.

- **2008-2015: MBBS with Honor.**

Faculty of Medicine, University of Khartoum.

Modules are studied over 6 years: Physiology, Biochemistry, Anatomy, Microbiology, Immunology, Pathology, Infectious disease, ophthalmology ,ENT, Anaesthesia , Orthopedic , Internal Medicine, Surgery, Community medicine, Obse & Gyne, Paediatric, Forensic Medicine, Mathematics, Chemistry , Physics , Biology, Sudanese Studies, Computer Science, English, Arabic, Islamic Culture, Clinical Skills, Neuroscience , Behavioral Science, Pharmacology, Radiology, Medical Ethics, Psychiatry and Primary Health Care.

Workshops:

- Basic life support of European society 2016.
- winter school of Bioinformatic and statistical genetic. Khartoum, Sudan. 2017
- Advanced and Basic genetic counseling course ESHG, Bertinoro, Italy 2018.
- NGS analysis for monogenic diseases in Africa, Kigali, Rwanda 2018.
- NGS data analysis using Galaxy, Sudan 2019.
- Microbial genomic analysis, Sudan 2019.
- H3Africa RDWG-ClinGen Resource Workshop 2021.
- NGS Bioinformatics -Africa,2021. online course
- Introduction to Ensemble workshop 2021. online course
- REST-API Ensemble training workshop 2021. online course
- Reasearch Data Management course H3Africa 2021. online course

Conferences:

- 7th African society of pediatric & adolescent endocrinology conference, Khartoum, Sudan 2016.
- Middle east molecular biology society 4th international congress 2017.
- Genomic and Human Health in Africa, young scientist conference, Sudan 2018. **Oral speaker.**
- 3rd international conference on Molecular Biology and biotechnology, Kulalumpur, Malaysia 2019.
- 12th conference of the AFSHG, Bamako, Mali 2019. **Oral speaker.**
- 24th conference of Sudanese society of paediatricians , Sudan 2020 **oral speaker.**
- The 13th AORTIC International Conference on Cancer in Africa, Virtual, **Oral Speaker .**

Awards:

- Italian ministry of foreign affairs with TWAS Internship Awards at SiSSa laboratories 2021.
- Awards to attend Advanced and Basic genetic counseling course ESHG, Bertinoro, Italy 2018.
- Awards to attend NGS analysis for monogenic diseases in Africa, Kigali, Rwanda 2018.

Research experience:

- **May 2015 - October 2015:** Immunology and molecular biology lab IEND, University of Khartoum. Sudan.
- **November 2017-present:** Molecular biology lab IEND, University of Khartoum. Sudan
- **January 2018 - December 2018:** Elite Genetic clinic. Sudan

- **June 2021-August 2021:** RNA Biology lab. ICGEB. Trieste .Italy.

Teaching Experience:

- 1) Vitamin course, Faculty of Physiotherapy, A-Ssafa Academy -Biochemistry 2018.
- 2) Genetics and Molecular Biology courses, Faculty of Physiotherapy, Al-Neeleen University, 2020.
- 3) Molecular Biology Course, Faculty of Pharmacy, A-Safa Academy, 2020.
- 4) Bioinformatic training practical, MSc of Molecular Medicine, Institute of Endemic Diseases, University of Khartoum, 2021.
- 5) Next Generation Sequencing Bioinformatics Course, Welcome Genome Campus(Virtual), IEND, Khartoum Sudan, 2021

List of publication: Submitted papers:

- 1- **Reem S.K. Hamad**, Muntaser E. Ibrahim: CMMRD caused by a PMS1 mutation in a Sudanese consanguineous family. American journal of human Genetics.
- 2- Ayman Hussein, **Reem S.K. Khalid** and Muntaser Ibrahim: Individualized Medicine in Africa: bringing the practice into the realms of population heterogeneity. Frontiers Genetics.

Personal Skills and Job-related Techniques

language: Arabic (Mother tongue), English (very good).

Computer skills: Microsoft (word, excel, access, PowerPoint) and other presentation programs, beside Bioinformatics related programs. Linux programming, Python language.

Practical Techniques: Basic molecular biology techniques include DNA, RNA and protein extraction, quality check (gel electrophoresis, Nanodrop), Rt-PCR, Western blot, FACS, Cell Culture . Analysis of next generation sequencing data and bioinformatics.

Communication skills:

Effective verbal and written communication skills. Enthusiastic nature, positivity, Flexibility and creativity. Good teamwork and leadership qualities.

good teaching and presentation skills.

Interest in Planning and project design.

References:

Prof: Muntaser Eltayeb Ibrahim

Professor and head unit of Diseases and diversity

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Prof: Maowia Mohammed Mokhtar

Professor of Immunology

Department of Immunology.

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