Heba M. Ossama, M.D

Teaching Assistant, Human Genetics Department

Alexandria, Egypt

(002)0128-5542656

Heba.Ossama@alexu.edu.eg

Medical research Institute, Alexandria University

EXPERTISE

Clinical genetics
Genetic counseling
Cytogenetics
Molecular cytogenetics
Molecular data analysis and variant calling
Scientific writing
Quality assurance in medical laboratories
Quality assurance in higher education
Social media planning

EDUCATION

MASTER'S DEGREE
Human Genetics
Medical Research Institute, Alexandria University.
2016 – 2021

BACHELOR'S DEGREE
Medicine and surgery
Alexandria faculty of medicine, Alexandria University.
2008 – 2013

POSITIONS HELD

PRE-REGISTRATION ROTATING HOUSE OFFICER
MARCH 2014 – FEB 2015
Treating and monitoring patients in Alexandria university hospitals, Alexandria, Egypt.

GENERAL PRACTITIONER
MARCH 2015 – NOV 2015
Maternity & Child Health Care Centre, Ministry of Health, Alexandria, Egypt

DEMONESTRATOR, HUMAN GENETICS DEPARTMENT
NOV 2015 – FEB 2022
Medical Research Institute, Alexandria University, Alexandria, Egypt

ASSISTANT LECTURER, HUMAN GENETICS DEPARTMENT
FEB 2022 – PRESENT

Medical Research Institute, Alexandria University, Alexandria, Egypt

PROFESSIONAL EXPERIENCES

CLINICAL EXPERIENCE

Pre –registration:
A one-year experience as a rotating house officer in Alexandria University teaching hospitals.
The rounds included: Casualty, Internal medicine, General Surgery, Pediatrics, Obstetrics & Gynecology, Radiology and Anesthesia departments. As well as otorhinolaryngology and cardiology departments.

As a general Practitioner:
A compulsory service in the Egyptian ministry of health where I worked in a Maternity & Child Health Care Centre.
Training included: Women health, Gynecological care, Contraception(types and tailoring them according to each case's need), and Counseling on family planning.
Practical skills included: IUD insertion and removal, Subcutaneous capsules insertion and removal, ultrasonography.

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SKILLS
Language skills:

Arabic (mother language)
English (fluent)
French (good)
Korean (basic knowledge)

PROFESSIONAL EXPERIENCES

CLINICAL EXPERIENCE

Genetic Clinic:
Managing patients with congenital malformations and genetic syndromes
Postmortem examination of abortuses for malformations to provide parents with the appropriate genetic counseling regarding future pregnancies.
Genetic counseling (regarding recurrence risk, Fertility options as well as pre and post testing counseling)

LABORATORY EXPERIENCE

Cytogenetic Laboratory:

From December 2016 till the present time:
Cytogenetics lab affiliated to the Human Genetics Department, Medical Research Institute an ISO accredited lab in karyotyping for two rounds (ISO 15189).
Work experience included: Chromosomal analysis from lymphocytic cell culture & G-banding technique.

Molecular cytogenetic

From Oct 2018 till the present time:
Fluorescent in situ Hybridization (FISH) on both interphase and metaphase for diagnosis of various chromosomal disorders
Application of FISH on buccal cells for the diagnosis of tissue mosaicism

Molecular Genetics Laboratory:

From December 2016 till the present time:
training in the molecular genetics lab involved both PCR and Real time PCR techniques.
Training on analysis of Whole exome sequencing data (WES) including variant calling and annotation

QUALITY EXPERIENCE

Dec 2015 – Dec 2022
Worked as an executive member of the Quality Assurance Unit Medical Research Institute (QAMRI). Where our team is prepared and got the accreditation from the National Authority to ensure the quality of education and accreditation (NAQAAE).
Worked as a member of the strategic planning committee t for the Medical Research Institute.
Worked as a member of the internal audit committee which preforms regular audit on different departments and processes of the educational system to ensure proper quality standards implications.
Worked as an executive member of the Human Genetics lab ISO 15189 accreditation project, funded by the higher education in the Medical Research Institute, Alexandria university.

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REFERENCES:

Prof.Dr. Ebtesam Abdulla

Head of the Human Genetics Department clinic

ebtesam.nasr@alexu.edu.eg

Prof.Dr. Nahla Nazmy

Head of Cytogenetics Lab, Human genetics Dep., MRI.

nahlanazmy@alexu.edu.eg

Prof.Dr. Ghada El-Hady

Head of Human Genetics Department, MRI.

ghada.alhadi@alexu.edu.eg

COURSES and WORKSHOPS

- Actively participated in the preparation and execution of workshop on Diagnostic Cytogenetics, Cytogenetic Lab, Human Genetics Department, Medical Research Institute, 6th-8th December 2016
- The Human Genetic and Genome Research (HGGR) conference 2016 “path to the future of Human genetics”, Safir Hotel, Cairo, Egypt, 8th -9th November 2016.
- Actively participated in the preparation and execution of workshop on Essential of clinical Genetics (MYTHS VERSUS FACTS). Medical Technology Center, 29th- 30th April 2017.
- The 1st Medical Research Institute’s Students Conference, Medical Research Institute, Alexandria University, 2nd October 2017. (Organizer and Announcer).
- Mastering GAHAR Standards in medical labs 24-26 May 2025
- Actively participated in the preparation and execution of workshop on Genomic Variant Interpretation. 4-5 October 2025
- Actively participated in the preparation and execution of workshop on Cytogenetics: from lab to diagnosis. 18-19 November 2025

Publications:

Natascha Rosen, Tess Holling, Inken Junod, Malik Alawi, **Heba Ossama**, Rabab K. ElGhandour, Ebtesam Abdalla, Kerstin Kutsche. KREMEN1 variants associated with ectodermal dysplasia impair complex formation of KREMEN1 with DKK1 and LRP6 and attenuate WNT3A response. **Journal of Investigative Dermatology, 2025**.

Heba Mohamed Ossama; Soha Kholeif, ; Ghada Mohamed Elhady, The Use of Fluorescence In situ Hybridisation in the Diagnosis of Hidden Mosaicism in Egyptian Patients with Turner Syndrome, **Journal of Human Reproductive Sciences 2023.**

Rania Fathy Elnahas Soha Kholeif , Nahala Nazmy, Mohamed Sanhoury, Esraa Reffaat, **Heba Mohamed Ossama**, Nehal Helmy, Rasha Elkhradly and Ghada M Elhady, Descriptive Study of the Different Phenotypes of Congenital Heart Disease in a Cohort of Egyptian Patients Diagnosed with Down Syndrome **the Medical Journal of Cairo University 2023.**