

**THE REPUBLIC OF THE SUDAN
INSTITUTE OF ENDEMIC DISEASES
UNIVERSITY OF KHARTOUM KR 0028185**

Date: 21.08.2022

Re: Experience Certificate Dr. EINAS AWAD IBRAHIM OSMAN

This is to certify that Dr. EINAS AWAD IBRAHIM OSMAN was a awarded her PhD in Molecular Biology from the Institute of Endemic Diseases (IEND), University of Khartoum in October 2020. During her thesis research, she developed teaching experience in both theoretical and practical in the following techniques:

Immunological Techniques

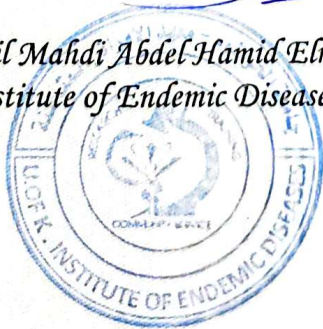
- ELISA
- DAT
- Cell culture techniques
- Animal Immunization
- Lymphocyte separation

Molecular Techniques

- DNA Extraction
- PCR
- RT- PCR
- LAMP PCR
- Gel electrophoreses

She had actively participated in many workshops and training of our junior staff in several research techniques. In addition, she has been involved in many research projects on diagnosis and controlling of Infectious Diseases.

Dr. Muzamil Mahdi Abdel-Hamid Elmahdi
Director, Institute of Endemic Diseases



Professor Ali A. Rabah
Academic Secretary Affairs

