



## AMBRELA TANGA MEDICAL RESEARCH CENTRE



LAB WINGS



GENERAL LAB

### BACKGROUND

**AMBRELA** is a modern laboratory situated adjacent to Bombo Regional Hospital in Tanga City, northeastern Tanzania.. It was built with funding from the BMGF through Gates Malaria Partnership (GMP) in 2004. It became fully operational in 2005 under Tanga Medical Research Centre of the National Institute for Medical Research

### CLINICAL PHARMACOLOGY & CHEMISTRY

High Performance Liquid Chromatography (HPLC MACHINE)

Analysis of drug levels in human blood, Antimalarials & ARVs

Chemical Analysers (DT Vitros)

Liver Function Tests (ALAT & ASAT, ALP), Renal Function Test

Serum electrolytes

Haematological Analyser (Sysmex K21)

Full Blood Picture

### MOLECULAR BIOLOGY & CELL CULTURE UNIT

PCR genotyping (Parasite, Vectors & Human), Parasite Cell Culture, Differential gene expression by Real Time PCR

#### IMMUNOLOGY

Immune Responses to Malaria vaccine Candidates by ELISA, Cell Mediated Immune Response by ELISPOT

#### PARASITOLOGY

Microscopy for Malaria & Microfilariae; Quality Control in Malaria Microscopy

#### MICROBIOLOGY

Establishment of the unit in progress

#### DATA MANAGEMENT UNIT

Data entry, Validation, Archiving, Processing & Analyses

### LONG & SHORT TERM TRAINING ATTACHMENT

BSc, MSc, PhD (Pre-doctoral), Post Doc (Post PhD)

Good Laboratory Practice (GLP), SSOP-ELISA, AIA-ELISA Protocol

#### COLLABORATORS

CMP-DK, LSHTM –UK, Biotechnology Laboratory (KCMC), Kenya Medical Research Institute, Bombo Regional and Korogwe District Hospitals, etc.....

#### AKNOWLEDGEMENTS

GMP, DANIDA, NIMR, AMANET, EU, MCTA, MoH, etc.....

### FACILITIES AT AMBRELA

Office Space for Research Staff, Mini Conference/Meeting/Library Room, Standby Automated Generator,

VSat for Internet Connectivity, LCD Overhead Projector, Minus 20, 40 & 86 Freezers,

-196 Liquid Nitrogen, HPLC Machine,

Chemical Analyser (Vitros K21)

Haematological Analyser (Sysmex), Incubators, Autoclaves, Laminar flow Hoods,

Conventional & Real Time PCR Machines,

Distiller for making deionised distilled water

### CHALLENGES

Sustainability of Project Activities, Lack of Sufficient Equipment, Servicing of Equipments, Local Procurement of Reagents, Inadequate Funding from the Govt

### OPPORTUNITIES

Collaboration, Large Grant Projects

### CONTACT DETAILS

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SCIENTIST'S OFFICE



rt- PCR MACHINE