

# ARBOVIRAL DISEASES: TOWARDS A COMPREHENSIVE ONE HEALTH STRATEGY FOR VIROLOGICAL, EPIDEMIOLOGICAL, ENTOMOLOGICAL, AND IMMUNOLOGICAL PROFILING



ArbOne  
workshop

- Dates: October 6th to 10th, 2025 (every day from 9 AM to 5 PM)
- Location: NIMR-Mbeya, Mbeya, Tanzania

## AIM

Provide an in-depth understanding of arboviral diseases through a multidisciplinary approach, integrating virological, epidemiological, entomological, and immunological perspectives

## REGISTRATION

- Free but mandatory and subject to seat availability (the workshop will be held in person).
  - Applicants should have basic science knowledge in molecular biology and entomology.
  - To register send your CV and motivation letter to [arboneworkshop@nimr.or.tz](mailto:arboneworkshop@nimr.or.tz)
- Submit your application by August 31st, 2025.  
You will be informed of the outcome by September 15th, 2025.  
For information, please contact:  
[arboneworkshop@nimr.or.tz](mailto:arboneworkshop@nimr.or.tz)

## FACULTY

- **Dr. Mkunde Chachage**, University of Dar es Salaam-Mbeya College of Health and Allied Sciences; NIMR-Mbeya Medical Research Center, Tanzania
- **Dr. Wilbert Mbuya**, NIMR-Mbeya Medical Research Center, Tanzania
- **Prof. Creuza Rachel Vicente**, Federal University of Espirito Santo, Brazil
- **Dr. Luciana Matos de Abreu Stanzani**, Federal University of Espirito Santo, Brazil
- **Prof. Francesco Nicoli**, University of Ferrara, Italy
- **Dr. Beatrice Dallan**, University of Ferrara, Italy
- **Dr. Elena Torreggiani**, University of Ferrara, Italy
- **Dr. Mara Martino**, University of Ferrara, Italy



MBEYA MEDICAL RESEARCH  
CENTER



CENTER FOR INTERNATIONAL  
HEALTH- LMU



UNIVERSITY of FERRARA



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ESPÍRITO SANTO

## COURSE MODULES:

### 1. Epidemiology of Flaviviruses

1. Overview of flaviviruses of epidemiological importance, emerging threats, and the One Health approach. Key epidemiological indicators and project design using One Health principles

### 2. Entomology Applied to Flaviviruses

1. Understanding mosquito species involved in flavivirus transmission.  
2. Methods for collecting, transporting, storing, and identifying mosquitoes for research and surveillance.

### 3. Detection of Immunological Responses to Flaviviruses

1. Techniques for isolating and cryopreserving PBMCs.  
2. Immunological detection methods including ELISPOT, ICS, and MHC tetramer staining.



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