



NUITM-KEMRI Project, Kenya Research Station
NAGASAKI UNIVERSITY
INSTITUTE OF TROPICAL MEDICINE
C/O Centre for Microbiology Research, KEMRI



PO BOX 19993-00202, Next to KNH Post Office, Nairobi, Kenya TEL 020-272-5120 FAX 020-272-5144

7th Annual p3 Laboratory Training Seminar
Maintenance and Operation of p3 Laboratory System

Organised by: NUITM-KEMRI Project

DATE: 9:00- 16:45 07th October 2014

9:00- 16:45 08th October 2014

VENUE: NUITM-KEMRI Conference Room

Registration: 8:30 – 9:00am

MC by Mrs. Amina Galata

WELCOME REMARKS: 9:00 – 9:10am

Prof. Yoshio Ichinose, Chief Representative, NUITM-KEMRI Project

Dr. Samuel Kariuki, Director, CMR, KEMRI

LECTURES:

1. What is P3 Lab and why is it necessary? (9:30-9:50am)

- **Case of laboratory infection**
- **General principle of laboratory safety**
- **Risk group and biosafety level**

By Dr. Shingo Inoue, Chief Research Officer, JICA-JST-NU SATREPS Program-KEMRI

2. Regulation of biosafety in KEMRI (9:50-10:20am)

- **Procedure for waste management at KEMRI**
- **Biological and Chemical waste Management in KEMRI**

By Mr. Nicholas Mikwabe, Assistant Research Scientist & Ag.OHSE Coordinator, KEMRI

3. Multi Drug-Resistant TB (10:20-10:50am)

By Dr Evans Amukoye, Principal Research Officer, Director CRDR, KEMRI

.....Coffee Break 10:50-11:10am.....

4. **Biosafety application in Septicemia work(11:10am-11:40am)**
By Mr. Sora Guyo, Chief Technologist, NUITM-KEMRI Project
5. **Regulation and practices of P3 Lab system in NUITM (11:40-12:10noon)**
 - Regulation of biosafety in NUITM lab
 - Practices of biosafety in P3 lab
 - Dos and Don'ts in P3 lab
 - Biosafety regular meetingBy Mrs.Salame Ashur, Assistant Research Officer, JICA-ARBOVIRUS Program-KEMRI
6. **Arbovirus in Western Kenya an update (12:10pm-12:40pm)**
 - Proposed research plan in new P3 laboratory
 - Points to note in use of P3 labBy Prof. Matilu Mwau, JKUAT, Chief Research Officer, KEMRI-CIPDCR, Alupe.

Blood drawing from participants and stock in P3 lab (12:40pm-13:00pm)

Conducted by Mr. Sora G. Huqa, CMR, NUITM-KEMRI

Mr. Gabriel Mirin'gu, NUITM-KEMRI Project

Mrs. Amina Galata, NUITM-KEMRI Project

.....Lunch time 13:00-14:00.....

(Organiser will provide Lunch)

7. **Experience of Biosafety in Mycology lab (14:00pm-14:30pm)**
 - Basic Introduction to Mycology
 - Any level 3 fungal pathogens (prevalence in Kenya)
 - Mode of infection
 - Mode of decontaminationBy Mr. Tom Ouko, Research Officer, CMR-KEMRI
8. **Viral hemorrhagic fever and biological containment and Shipment (14:30-15:00pm)**
By Dr. Rosemary Sang, Principle Research Officer, CVR-KEMRI

9. Biological Safety Cabinets, Proper use and Maintenance(15:00pm -15:30pm)

- Principles of containment
 - Classes and types of Biological safety cabinets
 - Proper use
 - Maintenance
 - Decontamination and certification
- By Mr. Cyrus Kathiiko, NUITM-KEMRI Project

10. Maintenance of P3 lab (15:30pm-16:00pm)

- How to manage and maintain P3 lab
 - Basic structure and function of P3 lab system.
- By Mr. Gabriel Mirin'gu, NUITM-KEMRI Project

SECOND DAY

.....08th October 2014 (9:00am -16:45pm).....

**Overview of Practical Training and on site PPE demonstration
(9:00am -9:30am) by Gabriel Miring'u**

Practices in P3 lab (9:30-13:00) (in P3 lab in CMR)

- How to enter P3 lab
 - How to handle research materials
 - How to use other equipment
 - Centrifuge (high speed, etc)
 - Safety Cabinet
 - Autoclave and pass box
 - How to cope with emergency situation
 - How to leave P3 lab
- By Dr. Shingo Inoue, Salame Ashur and Mr. Gabriel Miring'u, NUITM-KEMRI Project

.....Lunch Break 13:00-14:00.....

11. Test and general discussion (14:00pm-16:00pm) NUITM-KEMRI conference room)

- Mr. Ernest Wandera, NUITM-KEMRI Project

Closing Remarks

Prof. Yoshio Ichinose, Chief Representative, NUITM-KEMRI Project

Presentation of Certificate (16:00pm-16:45pm)

Dr. Samuel Kariuki, Director, CMR, KEMRI