

Institution: Kenya Medical Research Institute
Kisumu, Kenya
<http://www.kemri.org>

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LAB RESOURCES

Please describe the laboratory facilities available in your research institute, including the items listed below (if applicable):

<i>Lab space and equipment (general):</i>	Lab space at Kisian campus and at Lumumba Health Center, Kisumu
<i>BSL-2 lab space and equipment:</i>	
<i>BSL-3 lab space and equipment:</i>	We have an 4 and 8 color flow cytometry machines
<i>Flow cytometry equipment:</i>	We have an 4 and 8 color flow cytometry machines
<i>Other:</i>	We also have Luminex machines

Please list the research groups in your institute, including the size and areas of expertise for each group:

- KEMRI-UCSF Research Group (Women's reproductive health; Prevention and treatment of STIs; HIV care and treatment; cervical cancer screening)
- SUNY Upstate Medical University/KEMRI projects
- HIV and EBV immunology and virology
- AIDS related malignancies
- We have immunologists, virologists and molecular biologist



BIOLOGICAL SPECIMEN REPOSITORY

Please describe the biological specimens stored at your institute:

- We have samples from both pregnant women and a birth cohort of children from a malaria endemic region that also experiences a high prevalence of HIV (KEMRI-SUNY Project)
- Serology, hematology, chemistry, molecular diagnostics, and general microbiology specimens (KEMRI-UCSF Project)

Does your institute have a database of stored samples: Yes

Please provide details on methods for biological specimen storage at your institute (e.g., are Standardized Operating Procedures used?):

- There are frozen samples, samples stored in liquid nitrogen and Standard Operating Procedures are used

Please describe the equipment/facilities available for sample storage at your institute, including items listed below (if applicable):

<i>-80C freezers</i>	We have 2 Sanyo freezers and 1 Harris freezer
<i>Nitrogen storage tanks</i>	We have four 100-litre liquid nitrogen storage tanks
<i>Dry ice availability</i>	yes
<i>Use of a nitrogen generator</i>	yes

TRAINING AND EDUCATION

Please describe the training initiatives your institution has in place for individuals prior to working in clinical studies:

- We provide training on good laboratory and clinical practice, protection of human research participants (KEMRI-SUNY)
- Student Training Education Program (STEP) for medical students and residents (KEMRI-UCSF)

Please describe the training initiatives your institution has in place for individuals prior to working in the laboratory:

- We provide good training on good laboratory and clinical practice, protection of human research participants

What assays/techniques do you excel in at your institute?

- ELISPOT, ELISA, FLOW-CYTOMETRY, MULTIPLEX PCR ASSAYS, LUMINEX ASSAY

What training could you provide to visiting scientists?

- We would provide training on lab assays like luminex and 8-color flow cytometry

What rank are the majority of your trainees? (e.g., approximate numbers of undergraduate students, Masters, PhD, post-doc, MDs)

- Masters (2)
- PhD (4)
- Post-doc (1)
- Medical students and residents

Do you offer training classes/courses for any of the following?

<i>Grant Writing</i>	Yes
<i>Manuscript/abstract writing</i>	Yes
<i>Computer skills, excel, prism, endnote, word, powerpoint</i>	Yes
<i>Presentation skills</i>	Yes
<i>Epidemiology</i>	Yes
<i>Biostatistics</i>	

Does your institute receive funds to support training initiatives?

No

Does your institution send trainees abroad for additional training?

Yes

Please indicate the number of trainees sent abroad per year, the source of funding, the location of training, and the type of training received:

- 3 mainly from NIH FOGARTY training grants

What Masters and/or Doctoral programs does your institution offer?

None

COLLABORATIONS

Please list and briefly describe your current collaboration with any African institutions for either research or training purposes:

- We are currently collaborating with Maseno University and Kenyatta to train Masters, PhD and post-doctoral students.

Please list your institution's plans for future collaborations within African (additional groups, sites, countries, etc.):

- We plan to expand these collaborations to other African institution especially those without expertise on areas we are well established in.

Please list and briefly describe your institution's collaborations and/or partnerships with entities outside of Africa (e.g., organizations and networks in the USA, Europe, etc. – including CFARS, NIH clinical trials networks, HPTN, HVTN, AMC, IeDEA, USAID, PEPFAR, etc.):

- We collaborate with SUNY Upstate Medical University on AIDS related malignancies.
- KEMRI-UCSF has a long-standing collaboration known as the Research, Care, and Treatment Progra (RCTP). Programs of RCTP include Family AIDS Care and Education Services (FACES) and a number of FACES-affiliated research studies.

CLINICAL COHORTS

Do you have access to existing clinical cohorts in Africa or USA?

Yes

Please describe each existing clinical cohort that you have access to, including specifics like “HIV-TB infected HAART naïve adults”, sample size, sample type, sex, age, and whether clinical samples are currently being collected and/or stored (specify which samples):

- We have samples repository of 460 HIV- and + pregnant women and over 480 children (KEMRI-SUNY)
- 120,000+ HIV-positive adults and children enrolled in HIV care and treatment through FACES program (KEMRI-UCSF)

Are you planning to establish any new clinical cohorts over the next 5 years?

Yes

Please describe the clinical cohorts that you are planning to establish, including specifics such as “HIV-TB infected HAART naïve adults”, sample type, sex, and age:

- HIV-EBV-Malaria infected infants, whole blood, both males and females (KEMRI-SUNY)

DATA MANAGEMENT

Please describe the DATA MANAGEMENT FACILITIES available in research institute, including the items listed below (if applicable):

Data management expertise, including staff complement (general):

- We have competent data managers.

On-site database design, implementation and trouble-shooting:

- We have onsite database design, implementation, and trouble-shooting.

BIostatistical SUPPORT

Please describe the BIostatistical SUPPORT available in your research institute, including the items listed below (if applicable):

Biostatistical expertise, including staff complement/composition of PhD and Masters level biostatisticians:

- We have a biostatistician with a PhD