



In Search of Better Health

133th KEMRI ANNUAL SCIENTIFIC & HEALTH (KASH) CONFERENCE

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In Search of Better Health

The 13th KEMRI Annual Scientific & Health (KASH) Conference

15th - 17th February 2023 SAFARI PARK HOTEL, NAIROBI, KENYA

Theme:

Rethinking strategic research-for-health through partnerships, innovation, evidence generation and knowledge sharing in post-pandemic recovery era

> Organized by: Kenya Medical Research Institute (KEMRI)

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ACKNOWLEDGEMENTS

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MESSAGE FROM DIRECTOR GENERAL KEMRI **PROF. SAM KARIUKI**

I am extremely delighted to be part of the the 13th, KEMRI Annual Scientific and Health conference which we popularly refer as "KASH". KASH has had an incredible journey, one which began with its establishment in 2010 at the KEMRI Training Centre with a handful of scientists and mostly KEMRI members of staff. It was incredible that a decade later, over 600 participants, most among the best rated brains, not just in the country, but globally, are meeting in this picturesque auditorium.

Since its humble inception, KASH is today a special event in the Institute's calendar which serves to promote health science through dialogue and exchange among scientists, health practitioners, development partners and policy makers with an average of 500 participation annually.

It is gratifying that findings, conclusions and recommendations from this conference are shared with the various arms of government and policymakers and contribute directly to national discourse including managing pandemics, Universal Health coverage (UHC) and measuring of scientific development trajectories.

It is therefore with great honor that I welcome you to this Conference from this 15th to 17th February 2023 with very rich scientific menu and being held alongside the two-day 4th Kenya National Malaria Forum (KNMF) that brings together experts and stakeholders involved in malaria control in the country. This is significant because both forums – KASH and KNMF seek to address specific, but similar needs that are relevant to contributing new knowledge from research and learnt lessons from key stakeholders in health and disease prevention strategies, control interventions and management that eventually inform policy and practice.

I am happy to note that an apt theme, **"Rethinking strategic research-for-health through partnerships, innovation, evidence generation, and knowledge sharing in post-pandemic recovery era"** is for 13th KASH conference. It also has several other sub-themes including Sustainable health systems, UHC and public health strengthening; Emerging research priorities on mental health and other non-communicable diseases; New frontiers on natural products, drug discovery and therapeutics; Research for effective management of sexual and reproductive health: adolescent, maternal and child health; Emerging and re-emerging infectious and parasitic diseases; Advances in genomics, diagnostics, vaccines and innovations in human health and effects of climate change, environment and one-health.

We are delighted that the Cabinet Secretary for Health, Dr. Susan Nakhumicha spared time to officiate during this joint opening ceremony.

I note with appreciation that 13th KASH recorded one of the highest abstract submissions of 253 that will be presented in 24 parallel oral sessions and 48 posters. The abstracts were received from different countries including the United State of America, Netherlands, Germany, Ghana, Scotland and from our neighbours Tanzania among others.

However, the heroes and heroines of 13th KASH Conference are you the participants who not only submitted abstracts but have also availed yourself to this conference. Indeed, we all know that without your valued participation, then we don't have a conference. On the same breath, I want on behalf of KEMRI, to appreciate and congratulate all our sponsors and partners, some who have remained steadfast over the last 12 years. There is no doubt that it is this wonderful co-operation and partnership among others which have made this KEMRI what it is today-A pearl in health research development not only in Kenya and Africa, but globally.

I most sincerely appreciate the KEMRI Board of Directors, led by our Chairman, Dr. Daniel M. Mbinda, my colleagues researchers and those in management and members of the KASH Organising Committee led by Dr. Cecilia Mbae. We remain grateful to the Government of Kenya through the Ministry of Health for guidance, financial support and leadership to the Institute and for this conference.

Prof. Sam Kariuki Ag. Director General, KENYA MEDICAL RESEARCH INSTITUTE



CONFERENCE OVERVIEW, **DR. CECILIA MBAE**

It is a great honor to welcome you all to the 13th KEMRI Annual Scientific and Health Conference (KASH) 2022 which is being hosted physically as well as - virtually from 15th -17th February, 2023.

For the last 13 years KASH Conference & Exhibition has continued to provide a premier platform bringing together diverse actors in the health research. The 13th KASH conference's main theme is "**Rethinking strategic research-for-health through partnerships**, innovation, evidence generation, and knowledge sharing in post-pandemic recovery era".

The theme is anchored on the following sub-themes: Sustainable health systems, UHC and public health strengthening, Emerging evidence on mental health and other non-communicable diseases, New frontiers on natural products, drug discovery and therapeutics, Management of sexual and reproductive health; adolescent, maternal and child health, Emerging and re-emerging infectious and parasitic diseases, Advances in genomics, diagnostics, vaccines and innovations for human health and Effects of climate change, environment and one-health

The KASH Conference is a core event within KEMRI's calendar of events that aims to bring together researchers, collaborators (local and international), policy makers and other stakeholders in medical research. This year, the Kenya National Malaria Forum is hosting their 4th KNMF Conference alongside the KASH Conference, we are expecting over 600 participants from various local, regional, and international institutions which signifies the importance of this premier scientific event.

The KASH Conference continues to provide great opportunities for sharing, cross-learning and mentoring of upcoming scientists as well as providing a platform for the discussions of the current health research challenges, exchange of new knowledge that will ultimately shape the future of health research in Kenya, Africa and globally.

This year's Conference features a rich and diverse menu of scientific content, with five plenary talks and 10 symposia with discussions on topical issues in health research. I am happy to report that we received a total of 253 abstract submissions which will be presented in 24 parallel oral sessions and 48 posters. These abstracts are from different countries including US, Netherlands, Germany, Ghana, Scotland, Tanzania among others. This means that KASH is now an international conference. We have also given our young scientists to showcase their research findings through the young investigators session which attracted 26 submissions, where the winners will be awarded. Besides this, there will be diverse opportunities to network with colleagues, form new acquaintances, and forge long-term partnerships from both in-person and the virtual interactive platform.

The conference will have distinguished Keynote and plenary speakers who are world class scientists with deep understanding and wealth of knowledge of not only disease burden, but practical knowledge of appropriate health interventions. The **Opening Keynote Address will be given by Dr Mercy Mwangangi, Topic: Spotlighting the essential role of investing in research for Health Systems Strengthening.**

The plenary speakers will be; Dr. Roberts Frank who will present the "Relevance of periodontal disease in the context of HIV infection"; Prof Wallace Bulimo "The data revolution, how KEMRI is riding the fourth wave"; Dr. Beth Tippet "Knowledge mobilization for increasing the impact of your research" and Prof. Samson Muuo "Genomics advancements in Vaccine and Diagnostic development in Kenya".

We wish to thank our sponsors Kenya Commercial Bank (KCB) (Platinum) and Carramore International (Gold), and the more than 20 exhibitors who have partnered with us.

As the local organizing committee, we are delighted in devoting ourselves to provide leadership, information, and capacity leading to the enhancement of human health, and quality of life through dissemination of research findings, innovations and service delivery. I encourage all participants to actively engage in the interesting explorations over the next three days and wish you a successful, fruitful, and a memorable conference.

PROGRAM AT A GLANCE

DAY ONE, WEDNESDAY 15 TH FEBRUARY 2023					
TIME	OFFICIAL OPENING SESSION & KEYNOTE ADDRESS				
0700-0900hrs	Arrival & Registrati	ion			
	Kenya National and	East Africa Anthem			
0900 - 0910hrs	KASH Conference o Chair of KASH Organ	verview: nizing Committee, Dr.	Cecilia Mbae		
	KNMF Conference Chair of KNMF Com	overview: mittee, Prof. Isabella (Oyier		
0910 - 0945hrs	Opening Remarks Ag. Director General	and CEO, KEMRI Pro	f. Sam Kariuki		
	Chairman, KEMRI B	oard of Directors- Dr. I	Daniel Mbinda		
	USAID Health Popul	ation and Nutrition Dir	ector - Dr. John Kueh	nle	
	WHO Representative	- Dr. Abdourahmane	Diallo		
0945-0950hrs		nd welcoming of the C nistry of Health - Dr. P			
0950hrs-1005hrs		opening by Chief Gu inistry of Health - Dr. S			
1005 - 1035hrs		Opening Keynote Address: Dr. Mercy Mwangangi Topic: Spotlighting the essential role of investing in research for Health Systems Strengthening			
Master of Ceremony:	Mr. John Musau				
Session Chair	Dr. Benjamin Tsofa & Dr. Andrew Mulwa				
Rapporteur	Dr. Damaris Matoke-Muhia & Dr. Katherine Kilonzo				
	1035 – 1115hrs TEA BREAK				
	SCIENTIF	IC SESSION 1 -	- 6 PARALLEL	SESSIONS	
1115 - 1245hrs	1115 - 1245hrs	1115 - 1245hrs	1115 - 1245hrs	1115 - 1245hrs	1115 - 1245hrs
Scientific Session 1: TB-1	Scientific Session 2: Vector Biology-1	Scientific Session 3: NTDs and One Health	Scientific Session 4: Natural Products	Scientific Session 5: Public Health-1	Scientific Session 6: MCH-1
VENUE: Amboseli	VENUE: Tsavo	VENUE: Samburu	VENUE: Bogoria	VENUE: Mt. Kenya C	VENUE: Mt. Kenya D
Session Chair: Dr. Jane Onga'ngo	Session Chair: Dr. Luna Kamau	Session Chair: Prof. Samson Muuo	Session Chair: Dr Beatrice Irungu	Session Chair: Dr. Sam Aketch	Session Chair: Dr Benson Singa
Rapporteur: Barbara Miheso	Rapporteur:Rapporteur:Rapporteur:Rapporteur:Rapporteur:Rapporteur:Tiffany WanderaJoanne JepkemeiDr. Sospeter NjeruSharon MukuaSchiller Mbuk		Rapporteur: Schiller Mbuka		
	1	245-1345HRS: 1	LUNCH BREAK	κ	
1345-1430HRS POSTER SESSION (Abstract No. 001-022)					
SCIENTIFIC SESSION 7, AND SYMPOSIUM 1-5					
1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs
Scientific Session 7: Young Investigators	Symposium 1 Symposium 2 Symposium 3: Symposium 4: Symposium		Symposium 5: Frontiers in Tungiasis		
VENUE: Amboseli	VENUE: Tsavo	VENUE: Samburu	VENUE: Bogoria	VENUE: Mt. Kenya C	VENUE: Mt. Kenya D

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Session Chair: Dr. Joseph Mwangangi, Dr. Doris Njomo	Session Chair: Prof. Jennifer Orwa	Session Chair: Dr. Simon Muriu	Chair: Dr. Richard Omore	Session Chair: Prof. Satoshi Kaneko	Session Chair: Dr. Lynne Elson
Judges: Dr. Limbaso Konongoi, Francis Kimani	Rapporteurs: Dr. Benjamin Tsofa & Eunice Wambui	Rapporteur: Dr. Lydia Kibe & Dr. Damaris Matoke	Rapporteur: Dr. Victor Akelo & Sheila Mbaabu	Rapporteur: Dr. Muuo Nzou & Susan Kavai	Rapporteur: Ulrike Fillinger & Dr. Sophie Uyoga
		END OF F	IRST DAY		
DA	YTWO, 1	HURSDA	Y 16 th FEB	RUARY 2)23
TIME	PLENARY SES				
0700-0830hrs	Arrival & Registrati	on			
0830- 0855hrs		Roberts Frank - Uniteriodontal disease in the	<i>iversity of Washington</i> ne context of HIV infec	tion	
0855 - 0920hrs		of. Wallace Bulimo - <i>A</i> ution, how KEMRI is r	Kenya Medical Researc iding the fourth wave	h Institute	
0920 -0945hrs	-		Health Research Instit		
0945-1010hrs			enya Medical Research nd Diagnostic developi		
Session Chair	Prof. Charles Mbog)			
Rapporteur	Susan Kavai				
1010 - 1045hrs			TEA BREAI	K	
1045 – 1245hrs	1045 –1245hrs	1045 – 1245hrs	1045 – 245hrs	1045 – 1245hrs	1045 – 1245hrs
Scientific Session 8: TB-2	Scientific Session 9: COVID-19	Scientific Session 10: Health Systems-1	Scientific Session 11: NCDs	Scientific Session 12: Vector Biology-2	Scientific Session 13: Sexual Reproductive
VENUE: Amboseli	VENUE: Tsavo	VENUE: Samburu	VENUE: Bogoria	VENUE: Mt. Kenya C	Health-1 VENUE: Mt. Kenya D
Session Chair : Dr. Hellen Meme	Session Chair : Dr. Samoel Khamadi	Session Chair : Bridget Kimani	Session Chair : Dr Lydia Kaduka	Session Chair: Dr. Joel Lutomiah	Session Chair: Dr Betty Njoroge
Rapporteur : Barbara Miheso	Rapporteur: Janet Majanja	Rapporteur : Tabitha Kanyui	Rapporteur : Sarah Karanja	Rapporteur: Sheila Mbaabu	Rapporteur: Schiller Mbuka
	1	245-1345HRS:	LUNCH BREAK	K	
	1345-1430HR	RS POSTER SES	SSION (Abstract	No. 023-045)	
	SCIEN	TIFIC SESSIO	N 15, SYPOSIU	M 6-10	
1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrs	1430 – 1700hrss	1430 – 1700hrs
Scientific Session 14: Mental Health	Symposium 6 SERU	Symposium 7: NAPREDA	Symposium 8: Impact of Climate Change	Symposium 9: BOHEMIA	Symposium 10: Nanotechnology
VENUE: Amboseli	VENUE: Tsavo	VENUE: Samburu	VENUE: Bogoria	VENUE: Mt. Kenya C	VENUE: Mt. Kenya D
Session Chair: Dr. Lucy Chite	Session Chair: Enock Kebenei	Chair: Dr. Festus Tolo	Chair: Prof. Inah Danquah	Chair: Dr. Marta Maia	Session Chair: Prof. Bernhards Ogutu
Rapporteur: Dr. Linus Ndegwa	Rapporteur: Carolyne Kithinji & Susan Kavai	Rapporteur: Dr. Peter Mwitari & Dr. Beatrice Irungu	Rapporteur: Dr. Eric Muok & Dr. Steve Wandiga	Rapporteur: Dr. Joseph Mwangangi	Rapporteur: Dr. Jeremiah Gathirwa & Kelvin Thiong'o
			COND DAY		

D.	AY THREI	E, FRIDAY	17 th FEBI	RUARY 20	23	
TIME	PARALLEL SCIEN	PARALLEL SCIENTIFIC SESSIONS , 15-20				
0700 - 0830hrs	Arrival & Registrati	ion				
	PARA	LLEL SCIENTI	FIC SESSIONS	, 15-20		
0830hrs-1000hrs	0830hrs-1000hrs	0830hrs-1000hrs	0830hrs-1000hrs	0830hrs-1000hrs	0830hrs-1000hrs	
Scientific Session 15: AMR-1	Scientific Session 16:Health Systems-2	Scientific Session 17: Genomics	Scientific Session 18: Public Health-2	Scientific Session 19: Sexual Reproductive Health-2	Scientific Session 20: HIV	
VENUE: Amboseli	VENUE: Tsavo	VENUE: Samburu	VENUE: Bogoria	VENUE: Mt. Kenya C	VENUE: Mt Kenya D	
Session Chair: Dr John Mwaniki	Session Chair: Dr Richard Mutisya	Session Chair: Dr Luna Kamau	Session Chair: Dr. Sam Aketch	Session Chair: Dr Betty Njoroge	Session Chair: Dr. Samoel Khamadi	
Rapporteur: Kelvin Kering	Rapporteur: Ishmael Ahamed	Rapporteur: Tiffany Wandera	Rapporteur: Asiko Ong'aya	Rapporteur: Irene Thuo	Rapporteur: Hellen Koka	
			S TEA BREAK			
		PARALLEL SC	IENTIFIC SES	SION 21 – 24		
1045 – 1245hrs	1045 – 1245hrs		1045 – 1245hrs	1045 – 1245hrs		
Scientific Session 21: Health Systems 3	Scientific Session 22: MCH-2 Session 23: Malaria Scientific Session 24: AMR-2			4: AMR-2		
VENUE: Amboseli	VENUE: Tsavo		VENUE: Samburu	VENUE: Bogoria		
Session Chair: Dr. Betty Njoroge	Session Chair: Dr. B	enson Singa	Session Chair: Francis Kimani	Session Chair: Dr. J	ohn Mwaniki	
Rapporteur: Schiller Mbuka	Rapporteur: Lillian	Mayieka	Rapporteur: Rukia Haji	Rapporteur: Kelvir	1 Kering	
		1300-1400HRS: 1	LUNCH BREAF	K		

CLOSING SESSION					
1400-1600hrs	Master Of Ceremony: Dr. Sophie Uyoga				
	Conference outcomes & resolutions Chief Rapporteur: Dr. Steve Wandiga				
	Awarding Ceremony: Dr. Vera Manduku				
	Sponsors and Exhibitors Session: Prof. Charles Mbogo				
	Official Closing remarks KASH Chair: Dr. Cecilia Mbae Ag. Director General & CEO, KEMRI Prof. Sam Kariuki Chair KEMRI Board of Directors				
	Vote of thanks - Dr. Damaris Matoke-Muhia				
	END OF CONFERENCE				

KEY NOTE SPEAKER Dr. Mercy Mwangangi



BIO

Dr. Mwangangi is a Health Economist and Policy Analyst with a background in Medicine. She has knowledge and experience in performing high quality Strategic Health Program Planning, Monitoring and Evaluation activities focusing on Universal Health Coverage and Primary Health Care with considerable experience in carrying out in depth Health Situation Analysis and producing of workable recommendations and guidelines on future program directions, incorporating international policies and standards, tailored to local needs

Topic: Spotlighting the essential role of investing in research for Health Systems Strengthening

PLENARY SPEAKER Dr. Roberts Frank



BIO

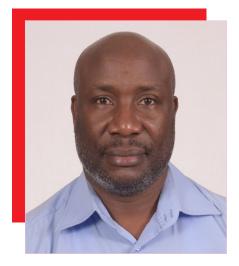
Dr. Roberts is a holder of BS, DDS, a certificate in periodontics, and PhD in Microbiology. He is a Professor of Periodontics, the University of Washington, the Associate Dean for Regional & amp; Global Affairs, Director of the Regional Initiatives in Dental Education (RIDE) program and the Pre-doctoral Program Director in the Periodontics Department at the University of Washington School of Dentistry (UWSOD). He has over twenty-five years of experience in research and dental education. He has served as Chief of Periodontics at the Seattle Veterans Administration Medical Center since 1997 where he practices and teaches clinically, with an inter-professional team-care approach. Knowledgeable in experiential learning, Dr. Roberts will serve as a mentor candidate for the Training in Research in Oral Health (TRIOH): A multidisciplinary collaboration between Dentistry, Nursing, and Pediatrics to build up research capacity in global oral health. He has widely published his work in peer review journals.

Topic: Relevance of periodontal disease in the context of HIV infection

Abstract:

Periodontitis is a chronic inflammatory disease that affects the supporting structures of the teeth and leads to early tooth loss and other significant comorbidities. It has been recognized as an early sign of HIV infection with serious complications in untreated HIV patients. This lecture will discuss the presentations of various periodontal infections and potential diagnosis and treatment options available to non-dentists.

PLENARY SPEAKER Prof. Wallace Bulimo



Topic: The data revolution, how KEMRI is riding the fourth wave

Abstract

How Can Data Science be Leveraged to Improve KEMRI's Research Impact?

The health research ecosystem is constantly evolving, and technology is a key driver in this evolution. One of the most promising technologies is data science, which has wide applicability and potential. The potential application of data science in health research, however, is suboptimal and is not fully appreciated or understood, despite the fact that institute scientists already have and continue to generate massive amounts of healthrelated research data on a daily basis as they pursue delivery of the institute's mission. Data science is an interdisciplinary field that extracts knowledge and insights from many structural and unstructured data, using scientific methods, data mining techniques, machine-learning algorithms, and big data. It draws upon statistics, computer science, and domain expertise to make sense of and gain new insights out of data. In health research, it can be used to analyze large and diverse amounts of data sets, identify patterns, and make predictions for individuals, populations or disease-causing pathogens. One such application is in precision medicine, a personalized approach to health-care that uses data to determine the most effective treatment options for each patient. Data scientists can guide prediction-medicine by identifying patterns in large amounts of data, such as genetic data, medical records, and clinical trial outcomes to tailor treatment options.

Another key application of data science in health research is in the analysis of population level health data, such as entire communities or countries. By analyzing data on the health of a population, data scientists are able to identify patterns and trends that can aid in the improvement of the population's overall health.

In addition, data science plays a crucial role in the fight against COVID-19. By analyzing data on the virus's spread, data scientists can identify patterns and predict its future spread. These predictions and associations inform public health policies and guide resource allocation.

Prof. Bulimo will discuss the importance of data science in the advancement of healthcare and health research, emphasizing on its applications, benefits, and the exciting future prospects of Data science for KEMRI in this field

PLENARY SPEAKER Dr. Beth Tippet



BIO

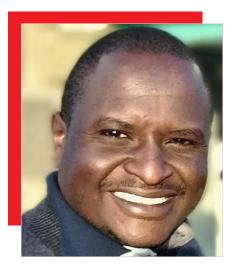
Dr. Barr is an epidemiologist with over 20 years of program and research experience in Southern and Eastern Africa. After completing her secondary school studies in Kenya, she attended university in the US before returning to Africa to serve in the public health arena. She worked with Baylor College of Medicine in Botswana and Malawi establishing training projects in pediatric HIV treatment before joining the US Centers for Disease Control and Prevention (CDC) in Malawi. Dr Tippett Barr then worked for several years in the prevention of mother-to-child transmission of HIV (PMTCT) and was a key team member in the development and implementation of the historic "PMTCT Option B+" approach with the Malawi Ministry of Health, when antiretroviral therapy was first offered to pregnant and breastfeeding women regardless of CD4 count or clinical stage. In 2015, Dr. Barr became the CDC-Zimbabwe Country Director, and in 2018 moved back to Kenya as CDC's Western Kenya Director, working in collaboration with KEMRI's Centre for Global Health Research to establish the Family Health Unit. In 2022 Dr. Barr left CDC-Kenya to found the Nyanja Health Research Institute in Malawi, an organization with a dual mandate to conduct highimpact research, and to train young researchers in how to disseminate their research findings with maximum impact.

Topic: Knowledge mobilization for increasing the impact of your research

Abstract:

Knowledge mobilization is the intentional and coordinated effort to raise awareness of research findings locally, nationally, and internationally. It bridges the historical silos between health research and public sector health programmes, and creates a path through which we can streamline the process of turning research findings into health policy. In this presentation, we will examine how research findings typically move through the research to policy process, and then discuss how researchers can develop and apply a knowledge mobilization framework to their own research studies, positioning their findings to be more readily adopted by **policy-makers**.

PLENARY SPEAKER Prof. Samson Muuo



BIO

Muuo Nzou is an Assistant Principal Research Scientist, at the Center for Microbiology Research, Kenya Medical Research Institute and a Visiting Associate Professor, Nagasaki University. Previously, He worked as an Associate Professor, Institute of Tropical Medicine and Global Health, Nagasaki University, and a Principal Research Officer Nagasaki University, Institute of Tropical Medicine -Kenya Medical Research Institute Projects (NUITM-KEMRI PROJECT). He holds a MSc in Medical virology from Jomo Kenyatta University of Agriculture and Technology, a PhD in Medical Sciences from Nagasaki University and a Health Research Capacity Strengthening Postdoctoral Grant, Wellcome Trust, His interests in communicable and noncommunicable diseases focus on vaccine and diagnostics development, molecular epidemiology, surveillance and omics leading to drug resistance patterns in humans, where he has published extensively in these areas. He is also a member of surveillance cross-cutting sub-group of the World Health Organization (WHO) Diagnostic Technical Advisory Group (DTAG) for Neglected Tropical Diseases. He has mentored and supervised Masters and PhD students from different institutions internationally

Topic: Genomics advancements in Vaccine and Diagnostic development in Kenya

Abstract:

Abstract Vaccine provide active defence for specific diseases, where's diagnostics provide means of detecting the diseases. Vaccines play a vital role in enhancing the body's immunity to defend against diseases while diagnostics are key in detecting diseases to ensure their treatment, control, surveillance and monitoring systems. Africa and Kenya has lagged behind in coming up with novel vaccines and diagnostics, mostly due to lack of equipment and limited skills. Over, the years, this has change and African scientists have embarked in research to identify candidate vaccine and diagnostic biomarkers. Exploratory research has been enhanced which is key in innovations and technology advancement. KEMRI, has taken lead in research for Vaccine and diagnostic research. This study reports applications of systems biology and immunology through bioinformatics, artificial intelligence and literature guided approaches to identify putative biomarkers that will be validated experimentally using cutting edge and molecular biology techniques including but not limited to next generation genomic sequencing, polymerase chain reaction, cloning and carbodiimide chemistry. The validated biomarkers will be used in pre-clinical testing which is vital in the future development of vaccines and diagnostic kits. To date, the study has been able to identify several putative biomarkers for SARS-COV2 vaccine and diagnostic development. Additionally, it has been able to develop and evaluate over 50 biomarkers for detection of several infectious diseases such as Leishmaniasis, Schistosomiasis, HIV, Trachomatis and Filariasis. Current developments focus on arboviruses, Echinococcosis, and cancer vaccines. Conclusion Development of candidate biomarkers for vaccine and diagnostic against diseases is a holistic manner for Africa nations to have custom made vaccines which might ultimately improve their performance. Key words Genomics, Polymerase Chain reaction, biomarkers, next generation sequencing

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- LLB (Hons) Law*
- BSc (Hons) International Nursing (Top Up)
- BSc (Hons) Computing*
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For more information contact: Mr Samson Kithika Mbondo, Business Development Manager, Unicaf Kenya at 0714655897 or email at s.mbondo@kenya.unicaf.org link.unicaf.org/KEMRI





POSTGRADUATE COURSES: MAY 2023 INTAKE

Applications are invited for admission into the following programmes for self-sponsored students under the collaborative JKUAT/KEMRI postgraduate training based at the KEMRI Graduate School.

COURSES	*MINIMUM ENTRY REQUIREMENT
MASTER OF SCIENCE (M.SC) A. PUBLIC HEALTH PROGRAMME 1. MSc. Public Health 2. MSc. Epidemiology and Biostatistics 3. MSc. Global Health B. BIOMEDICAL SCIENCES PROGRAMME 4. MSc. Medical Microbiology 5. MSc. Medical Microbiology 6. MSc. Medical Mycology 7. MSc. Medical Parasitology and Entomology 8. MSc. Molecular Medicine C. MEDICINAL CHEMISTRY PROGRAMME 9. Medicinal Chemistry 10. Medicinal Phytochemistry	 The common regulations for all Masters degrees in the University shall apply. The following shall be eligible for admission in KEMRI Graduate School under the JKUAT/KEMRI Collaboration: Bachelor's Degree, Second Class (Upper Division) in a relevant field of study or its equivalent from JKUAT or any other Institution recognized by JKUAT Senate. OR Bachelor's Degree, Second class Honors (Lower Division) in a relevant field of study or its equivalent from JKUAT senate, with at least two years post-qualification work/research experience OR Bachelor's Degree with a Pass and a Postgraduate Diploma in a relevant field of study.
DOCTOR OF PHILOSOPHY (Ph.D.) (In the MSc areas above)	The minimum entry requirements of all PhDs in JKUAT shall apply.

More information about the programmes are available on our website: www.kemri.go.ke/graduate-school/

*NB. These are the minimum requirements; other conditions may apply for individual programmes.

Application Procedure and Deadline

Candidates seeking admission are required to fill out application forms obtained from the offices/Website indicated below upon payment of non-refundable application fees of Kshs.1,500/-. Completed application forms and the original receipts for application fees should be returned to the **KEMRI Graduate School** (Located at the Training Centre, KEMRI HQ, not later than **April**, **14** 2023.

The Director, Board of Postgraduate Studies, P.O. Box 622000-00200, Nairobi, Kenya. Tel: 020-2027952 or 067(52711); Fax 067-2030 Email: *director@bps.jkuat.ac.ke* The Director, KEMRI Graduate School, P.O Box 54840-00200, Mbagathi Rd, Off Raila Odinga Way Nairobi, Kenya. Tel: (254) 0713112853/4, Email: admissions@kemri.go.ke

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Background

Genomic sequencing is used to understand genetic material of organisms of interest. It is important in trying to track changes/ mutations, tracking the spread of pathogenic organisms and how these changes may affect public health.

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Services

Whole Genome Sequencing

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- De Novo Sequencing
- Phased Sequencing

Amplicon Sequencing

Analyzing genomic variations in specific genomic regions

Bioinformatics and Data Analysis

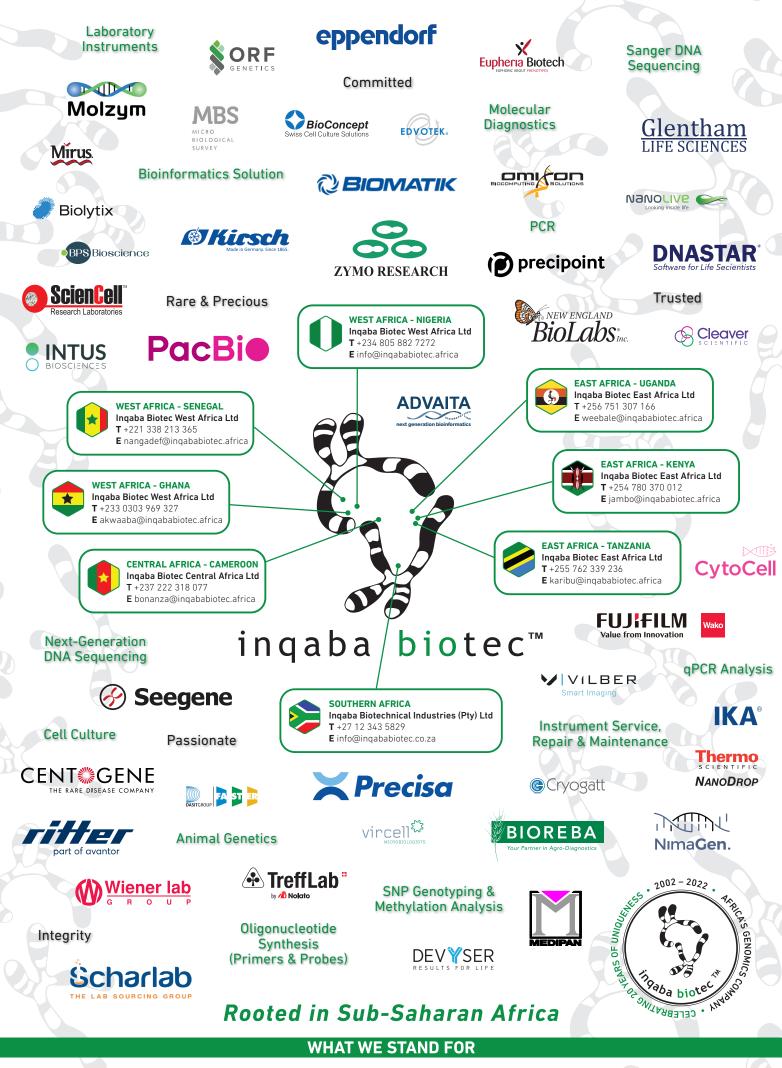
The process of analysis of sequences generated to make meaningful data and information. Bioinformatics forms an integral part of high throughput sequencing workflow

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Training and workshops in both wet lab and Bioinformatics to scientists, students and key stakeholders in Kenya, the region and beyond.

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FULL PROGRAM

DAY 1, W	EDNE	ESDAY, 15 th FEBRUARY 2023		
TIME	OFFICIAL OPENING SESSION & KEYNOTE ADDRESS			
0700-0900hrs	Arrival an	d Registration of Delegates		
	Kenya Nati	onal and East Africa Anthem		
0900 - 0910hrs		KASH Conference overview: Chair of KASH Organizing Committee, Dr. Cecilia Mbae		
		i ference overview: IMF Committee, Prof. Isabella Oyier		
0910 - 0945hrs	Opening Ro Ag. Director	e marks r General and CEO, KEMRI Prof. Sam Kariuki		
	Chairman, K	KEMRI Board of Directors- Dr. Daniel Mbinda		
	USAID Hea	Ith Population and Nutrition Director - Dr. John Kuehnle		
	WHO Repre	esentative - Dr. Abdourahmane Diallo		
0945-0950hrs		emarks and welcoming of the Chief Guest neral- Ministry of Health - Dr. Patrick Amoth		
0950hrs-1005hrs		d Official opening by Chief Guest- retary- Ministry of Health - Dr. Susan N. Wafula		
1005 - 1035hrs		Opening Keynote Address: Dr Mercy Mwangangi Topic: Spotlighting the essential role of investing in research for Health Systems Strengthening		
Master of Ceremony:	Mr. John M	Iusau		
Session Chair	Dr. Benjamin Tsofa & Dr. Andrew Mulwa			
Rapporteur	Dr. Damaris Matoke-Muhia & Dr. Katherine Kilonzo			
1035 – 1115hrs	TEA BRE	AK		
1115-1245hrs S	CIENTIFI	C SESSION 1-6		
Time (EAT) 1115hrs-1245hrs	Abstract No	Scientific Session 1: TB-1 VENUE: Amboseli Session Chair: Dr. Jane Ong'ang'o Rapporteur: Barbara Miheso		
	1.	Isolation of Non-Tuberculous Mycobacterial Infections among Tuberculosis presumptive cases at the National Tuberculosis Reference Laboratory Kenya, 2018–2019; George Kamau		
	2.	Distribution of Mtb genotypes/strains among presumptive multidrug resistant tuberculosis patients in western Kenya; Albert Okumu		
	3.	Assessing impact of pre-analytical challenges experienced in samples received for TB diagnosis in an MDR surveillance in Western Kenya and North Rift; Joseph Orure		
	4.	Assessment of TB cases tested using GeneXpert in Ndaragwa Sub county,2021; Lucy Njoki		
	5.	Spectrum of Fungi Isolated from Sputum of Patients Attending Tuberculosis Reference Facilities in Kenya; Abdi Mohamed		
	6.	Active Community Transmission for Drug-Resistant Tuberculosis: Are We Safe?; James Maragia		
	7.	Sputum Smear Conversion rates in relation to HIV status after 6 months of Tuberculosis treatment in Nairobi Kenya; Dorcas Ihuthia		

Time (EAT) 1115hrs-1245hrs	Abstract No	Scientific Session 2: Vector Biology-1 Venue: Tsavo Chair: Dr. Luna Kamau Rapporteur: Tiffany Wandera
	8.	Mosquitocidal Effect and Pharmacokinetics of Different Ivermectin Dose Regimens in Preparation for Bohemia Cluster Randomized Controlled Trial; Yvonne Kamau
	9.	UDP-Glucuronosyltransferase plays a key role in Insecticide Resistance: A study using bioinformatics approaches; Cynthia Odhiambo
	10.	Age grading of Afrotropical malaria vectors using MALDI TOF MS; Mercy Tuwei
	11.	Resting behaviour of African malaria mosquitoes in an era of high indoor insecticide use; Kevin Owuor
	12.	A field bioassay for assessing ivermeetin bio-efficacy in malaria vectors; Kelly Ominde
	13.	Ivermectin mass drug administration for malaria control (BOHEMIA): updates on trial progress; Marta Maia
	14.	Upscaling integrated vector management in the control of malaria and schistosomiasis in Mwea, Kirinyaga County. Baseline Epidemiological and Entomological results; Paul Gichuki
	15.	Over-expression of CYP6M2, CYP6P3, CYP4H15 and a cuticular protein is associated with transfluthrin response in Anopheles gambiae ss from Bungoma, Western Kenya; Stephen Okeyo
	16.	Controlling malaria from within: Using microbial symbionts to decrease vector competence; Thomas Onchuru
Time (EAT)	Abstract	Scientific Session 3: NTDs and One Health
1115hrs-1245hrs	No	VENUE: Samburu Session Chair: Prof. Samson Muoo Rapporteur: Joan Jepkemei
	17.	Epidemiological profile of Leprosy cases and the Treatment Outcomes, Kenya January 2011-To December 2021; Vallerian Karani
	18.	Production and use of polyclonal antibodies for the diagnosis of human African trypanosomiasis; Dawala Koromtili
	19.	Exploring Service Provider Related Determinants of Surgery Non-acceptance Among Women with Trachoma Trichiasis in North Pokot Sub County; Victoria Akoth
	20.	Presence of an invasive exotic freshwater snail, Pomacea canaliculata (Gastropoda: Ampullaridae) in Mwea Irrigation Scheme, Kirinyaga County: Potential implications for public health and wetlands biodiversity; Martin Mutuku
	21.	Severe dengue in Mandera : a case for event based surveillance; Albert Nyunja
Time (EAT) 1115hrs-1245hrs	Abstract No	Scientific Session 4: Natural Products VENUE: Bogoria Session Chair: Dr. Beatrice Irungu Rapporteur: Dr. Sospeter Njeru
	22.	LC-MS/MS method for simultaneous determination of selected antidiabetic adulterants in formulated herbal remedies being sold in Nairobi and Uasin Gishu Counties, Kenya; Caroline Maina
	23.	Antimicrobial activities and phytochemical content of honey and pollen of Meliponula beccarii and Plebeina hildebrandti from Baringo County; Chepkemoi Christine
	24.	In silico evaluation and prediction of novel pyrazoline, pyrazole and isoxazoline derivatives of Polygonum senegalense chalcones as anti-cancer agents; Evans Okemwa
	25.	Evaluation of Effects of Spirulina Extracts on Immunologic Dysfunction and Inflammation Associated with Aflatoxin B1 Induced Toxicity in Mice; Gilbert Kipkoech
	26.	Antimycobacterial Activity of Albizia zygia (Dc.) J.F. Macrb Root Bark Extracts tested singly and in Combination, their Cytotoxicity, and Phytochemicals Profiles; Kehongo Moses
	27.	Phytochemical and anti-inflammation activity of <i>Fagaropsis angolensis and Fagaropsis</i> hildebrandtii using animal model; Maloba Mukhunya

	28.	Anti-inflammatory mechanisms of action of a herbal combination remedy for the management of COVID-19 and other inflammatory diseases incuding arthritis; Peter Mwitari
	29.	<i>In vivo</i> anti-inflammatory potential, synergy, gene expression profiles and safety of selected medicinal plants on rheumatoid arthritis; Mercy Jepkorir
	30.	Formulation, Characterization, and Efficacy Evaluation of <i>Moringa oleifera</i> Leaf Polyphenols- Loaded Phytosome Delivery System; Jecinta Wanjiru
	31.	Fusidic acid-based drug combination exibit enhanced activity aganist Mycobacterium tuberculosis; Charles Omollo
Time (EAT) 1115hrs-1245hrs	Abstract No	Scientific Session 5: Public Health-1 VENUE: Mt. Kenya C Session Chair: Dr. Sam Aketch Rapporteur: Sharon Mukua
	32.	Preliminary findings from a photovoice study of community members' choice, experiences and perceptions around fuel use and cooking practices in Mukuru (Kenya) and Ndirande (Malawi); Fred Orina
	33.	Individual and social level factors influencing repeated pregnancy among unmarried adolescent mothers in Katavi Region—Tanzania: A qualitative study; Minyahil Tadesse
	34.	Population, Climate Change, and Sustainable Development in Africa; Ndirangu Ngunjiri
	35.	Host transcriptional RNA signatures as predictive markers of outcome in children with severe lung infection; Angela Maina
	36.	Association of household food insecurity and malnutrition among caregivers of children attending mother child clinics in western Kenya; Olieng'o Okoth
	37.	Evaluation of community event-based surveillance (cebs)in siaya, kenya 2021; Cynthia Musumba
	38.	Assessing the transition of campaign delivery of vitamin a supplementation to routine delivery in Côte d'ivoire and Senegal; Melissa Baker
	39.	Assessment of health care waste management (hcwm) in context of environmental safeguards in universal health coverage,kisumu west sub county, Nyahera Sub-county hospital; Duncan Odhiambo
	40.	Health-seeking behavior for child illnesses in western Kenya: Qualitative findings from the Child Health and Mortality Prevention Surveillance (CHAMPS) Study; Sarah Ngere
	41.	Over-The-Counter Antimicrobial Sale in Kenya: A mystery client survey; John Ndemi
	42.	Respiratory Syncytial Virus and Vaccination in Kenya; What are the Healthcare Workers' Preference? Victor Opere
Time (EAT) 1115hrs-1245hrs	Abstract No	Scientific Session 6: MCH-1 VENUE: Mt. Kenya D Session Chair: Dr. Benson Singa Rapporteur: Schiller Mbuka
	43.	Dental Visits and Perceived Benefits of Oral Health during Pregnancy Are Associated with Preterm Birth Outcome: Retrospective Analysis of US PRAMS data from 2009 to 2020; Hyewon Lee
	44.	Religious Factors Affecting Utilization of Maternal Health Services in Siaya County, Kenya: A Qualitative Study; Evans Dzenis
	45.	Knowledge level and associated factors about sexual and reproductive health rights among University of Gondar students, Gondar Ethiopia; Keflie Yohannes
	46.	Prevalence and factors associated with anaemia in pregnancy among women attending first ante- natal care clinic between January 2021 and April 2022 at Doldol Subcounty Hospital, Laikipia County: A cross-sectional study; David Kariuki
	47.	Developing and Implementing A Vital Signs And Feeds And Fluids Monitoring Chart For Neonatal Hospital Care In LMIC: A Human-Centered Design; Naomi Muinga

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	48.	Neonatal sepsis incidence at JM Kariuki Memorial County Referal Hospital, Nyandarua; Michael Chege
1245-1345hrs:	LUNCH BR	REAK
1345-1430hr	s POSTER S	SESSION (001-022)
SCIENTIFIC	SESSION 7,	SYMPOSIUM 1-5
Time (EAT) 1345-1430hrs	Abstract No	Scientific Session 7: Young Investigators VENUE: Amboseli Session Chairs: Dr. Joseph Mwangangi & Dr. Doris Njomo Judges: Dr. Limbaso Konongoi & Francis Kimani
	49.	Epidemiological analysis and diversity of extended spectrum β-lactamases from escherichia coli and klebsiella species feacal isolates in nairobi, Kenya; Sophia Kuve
	50.	Red Blood Cell Parameters and Associated Factors among Infants Attending Sangabuye and Makongoro Health Centres, Mwanza, Tanzania; Rotgen Arnold
	51.	Behaviors and Sexual Patterns leading to HIV risk among young transgender women in Coastal Kenya; a qualitative Study; Melanie Awino
	52.	Dengue fever outbreak at the Kenyan south coast involving serotype 3, genotypes III and V; Eric Muthanje
	53.	A comparative analysis of Portable Microbiological Lab (10ml colilert, 1ml pertrifilm) and the Colilert Quanti - tray 2000; Nancy Chebichii
	54.	Bacterial Etiologies of Diarrhea in Children Under 5 Years from Mukuru Informal Settlement and their Antimicrobial Sensitivity Profiles; Susan Kiiru
	55.	Characterization of Aeromonas species From Dhaka, Bangladesh through whole genome sequencing and phylogeny; Rahma Golicha
	56.	Vectorial capacity and TEP1 genotypes of Anopheles gambiae sensu lato mosquitoes on the Kenyan coast; Brian Bartilol
	57.	Genetic Diversity of Nontuberculous Mycobacteria among Symptomatic Tuberculosis Negative Patients from Kenya; Zakayo Mwangi
	58.	Entomological surveillance of main malaria vectors on the Kenyan coast using MALDI-TOF MS; Jonathan Kazungu
	59.	Therapeutic response to artemisinin combination therapies among individuals with Plasmodium falciparum single infection versus mixed Plasmodium species infections in Kisumu County, western Kenya; Gladys Chemwor
	60.	Examining the influence of actor interactions and power dynamics on health system responsiveness in Kilifi County, Kenya; Nancy Kagwanja
	61.	County governments' capacity of human resources for health in the implementation of Universal Health Coverage in Kenya; Ismail Adow
	62.	Patterns and determinants of antibiotic prescription among children admitted to 12 public hospitals in Kenya: A cross-sectional observational study; Rachel Otuko
	63.	Profiling Genome-wide Recombination in Epstein Barr Virus reveals Type-Specific Patterns and associations with Endemic-Burkitt Lymphoma; Eddy Agwati
	64.	Cytokine profile of a TB and TB/HIV co-infected cohort in Kenya; Asiko Ongaya
	65.	Entomological and epidemiological drivers of visceral and cutaneous leishmaniasis outbreak in Kajiado County, Kenya; Barrack Omondi
	66.	Association between five-minute apgar scores and adverse short-term outcomes in neonates in the clinical information network hospitals in kenya, 2018-2022; Pauline Karing'u
	67.	Advances in The Ambulatory Management of Pneumothorax: A systematic Review and Meta- Analysis; Vincent Kipkorir
	68.	The Effect of climate change on Biomphalaria pfeifferi populations in Asao stream, Western Kenya; Noel Oduor

Time (EAT) 1430-1700hrs	Symposium 1: Knowledge Management VENUE: Tsavo Session Chair: Prof Jennifer Orwa Rapporteurs: Dr. Benjamin Tsofa & Lillian Mayieka	
Time (EAT) 1430-1700hrs	Syposium 2: PAMCA VENUE: Samburu Session Chair: Dr. Simon Muriu Rapporteur: Dr. Lydia Kibe & Dr. Damaris Matoke	
Time (EAT) 1430-1700hrs	Symposium 3: Family Health Unit VENUE: Bogoria Session Chair: Dr. Richard Omore Rapporteur: Victor Akelo & Sheila Mbaabu	
Time (EAT) 1430-1700hrs	Symposium 4: NUITM-KEMRI VENUE: Mt. Kenya C Chair: Prof. Satoshi Kaneko Rapporteur: Dr. Muuo Nzou & Ms. Susan Kavai	
Time (EAT) 1430-1700hrs	Symposium 5: Frontiers in Tungiasis-Wellcome Trust VENUE: Mt. Kenya D Session Chair: Dr. Lynne Elson Rapporteur: Ulrike Fillinger & Dr. Sophie Uvoga	

DAY TWO, THURSDAY 16th FEBRUARY 2023

0700-0830hrs	Arrival & Registration			
	PLENARY SESSION			
0830- 0855hrs		ion 1: Dr. Roberts Frank - <i>University of Washington</i> ance of periodontal disease in the context of HIV infection		
0855- 0920hrs		ion 2: Prof Wallace Bulimo - <i>Kenya Medical Research Institute</i> ata revolution, how KEMRI is riding the fourth wave		
0920 -0945hrs	Plenary sessi	on 3: Dr. Beth Tippet - Nyanja Health Research Institute in Malawi		
	Topic: Know	ledge mobilization for increasing the impact of your research		
0945-1010hrs		ion 4: Prof. Samson Muuo <i>Kenya Medical Research Institute</i> nics advancements in Vaccine and Diagnostic development in Kenya		
Session Chair: Rapporteur:		Prof. Charles Mbogo Susan Kavai		
1010-1045hrs	TEA F	BREAK		
Time (EAT) 1045 – 1245hrs	Abstract No	Scientific Session 8: TB-2 Venue: Amboseli Chair: Dr. Hellen Meme Rapporteur: Barbara Miheso		
	69.	Identification of Mycobacterium species causing pulmonary tuberculosis in sputum samples from three heath facilities in Nairobi county, Kenya; Jeremiah Ndeto		
	70.	Novel Approaches for Developing a Highly Sensitive Molecular Assay for the Diagnosis of Tuberculosis; Clement Likhovole		
	71.	Implementing and Improving the Quality of Tuberculosis Diagnosis in Kenya in 2021; Solomon Bundi		
	72.	Scaling up active case finding through integrating quality improvement in tb settings the case of suna west sub county; Peter Omware		

	73.	Treatment outcomes among cases with Drug Resistant TB, Nairobi County TB Treatment Centers, 2016 – 2022; Selina Marwa
	74.	Characterization of first line drug resistance for mycobacterium tuberculosis complex by MTBDRplus [™] for specimens received at the National Tuberculosis Reference Laboratory Kenya, 2021; Beatrice Nasimiyu
Time (EAT) 1045 – 1245hrs	Abstract No	Scientific Session 9: COVID-19 Venue: Tsavo Session Chair: Dr. Samoel Khamadi Rapporteur: Janet Majanja
	75.	Severe Covid-19 cases in the county hospitals in rural central Kenya, a case study of JM Kariuki hospital, Nyandarua county; Angelica Kabue
	76.	Application of isothermal amplification and detection methods for clinical diagnostics; Bart Keijser
	77.	Influenza and SARS-CoV-2 co-circulation in Kenya, Apr 2020 – Mar 2022; Daniel Owusu
	78.	Occupational correlates for Covid19 disease among Staff at Kenyatta National Hospital; John Macharia
	79.	Incidence of SARS-CoV-2 and Influenza Viruses among Pregnant and Postpartum Women and their Infants, Siaya County, Kenya 2020–2021; Nancy Otieno
	80.	Wastewater Surveillance of SARS-CoV-2 in Kisumu City, Kenya; Eric Muthanje
	81.	Xpert xpress SARSCOV -2 Testing in Kenya; Mary Mbugua
	82.	Determinants of COVID-19 vaccine uptake among eligible residents of two populations in Siaya and Nairobi County, Kenya, July 2021 to August 2022; George Otieno
	83.	Characteristics of COVID-19 vaccine defaulters in Busia County, 2021; Jude Oduor
	84.	Assessment of the Quality of Alcohol-Based Hand Sanitizers, Pre and Peri - COVID-19 Pandemic Outbreak in Kenya; Samuel Wafula
Time (EAT) 1045 – 1245hrs	Abstract No	Scientific Session 10: Health Systems-1 VENUE: Samburu
1045 - 1245018	190	Session Chair: Bridget Kimani Rapporteur: Tabitha Kanyui
1045 - 12451118	85.	Session Chair: Bridget Kimani
1043 - 12431118		Session Chair: Bridget Kimani Rapporteur: Tabitha Kanyui Incorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health
	85.	Session Chair: Bridget Kimani Rapporteur: Tabitha Kanyui Incorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor Otieno Examining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living
	85. 86.	Session Chair: Bridget Kimani Rapporteur: Tabitha Kanyui Incorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor Otieno Examining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living with Hypertension and Diabetes in Kenya: A qualitative study; Robinson Oyando Experiences of Pilot Rollout of Web Laboratory Information Management System Remote Sample
	85. 86. 87.	Session Chair: Bridget Kimani Rapporteur: Tabitha KanyuiIncorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor OtienoExamining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living with Hypertension and Diabetes in Kenya: A qualitative study; Robinson OyandoExperiences of Pilot Rollout of Web Laboratory Information Management System Remote Sample Login in Western Kenya; Ben OdhiamboThe Experience of rolling out a Mobile Van for conducting Minimally Invasive Autopsy for Community Deaths as part of Child Health and Mortality Prevention Surveillance in Siaya, western
	85. 86. 87. 88.	Session Chair: Bridget Kimani Rapporteur: Tabitha KanyuiIncorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor OtienoExamining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living with Hypertension and Diabetes in Kenya: A qualitative study; Robinson OyandoExperiences of Pilot Rollout of Web Laboratory Information Management System Remote Sample Login in Western Kenya; Ben OdhiamboThe Experience of rolling out a Mobile Van for conducting Minimally Invasive Autopsy for Community Deaths as part of Child Health and Mortality Prevention Surveillance in Siaya, western Kenya; Peter OnyangoRelationship between caregivers engagement through a 2-way mHealth platform and depressive
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Time (EAT) 1045 - 1245hrs	85. 86. 87. 88. 89. 90.	Session Chair: Bridget Kimani Rapporteur: Tabitha KanyuiIncorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor OtienoExamining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living with Hypertension and Diabetes in Kenya: A qualitative study; Robinson OyandoExperiences of Pilot Rollout of Web Laboratory Information Management System Remote Sample
Time (EAT)	85. 85. 86. 87. 88. 89. 90. 91. Abstract	Session Chair: Bridget Kimani Rapporteur: Tabitha Kanyui Incorporating mhealth interventions into Kenya's health infrastructure to augment Universal Health Coverage, service delivery improvement approach; Oduor Otieno Examining the Responsiveness of the National Health Insurance Fund (NHIF) to People Living with Hypertension and Diabetes in Kenya: A qualitative study; Robinson Oyando Experiences of Pilot Rollout of Web Laboratory Information Management System Remote Sample Login in Western Kenya; Ben Odhiambo The Experience of rolling out a Mobile Van for conducting Minimally Invasive Autopsy for Community Deaths as part of Child Health and Mortality Prevention Surveillance in Siaya, western Kenya; Peter Onyango Relationship between caregivers engagement through a 2-way mHealth platform and depressive symptoms in Western Kenya; Stella Kepha Strategies to Reduce Informal Payments at Public Health Facilities in Kenya: Patients and Health Workers Perspectives; Evelyn Kagure Scientific Session 11: NCDs VENUE: Bogoria Session Chair; Dr. Lydia Kaduka

	1	1
	94.	Factors associated with oral healthcare utilization among pregnant women attending antenatal car clinics in Kiambu Level V hospital, Kiambu County, Kenya; Salome Kinyita
	95.	Adaptive immune receptor features related to breast cancer in Kenyan patients: Hig immunoglobulin gene expression and BC-resident gamma-delta T-cells; Kennedy Mwangi
	96.	Association between maternal periodontal disease and preterm birth among women in Kisum County, Kenya; Linus Ndegwa
	97.	Complications among Hypertensive cases, Kitui County Referral Hospital, January 2019- Marc 2022; Diana Rose
	98.	Association between nutrition knowledge and practise and cardiovascular disease risk factor among community members in Vihiga County; Doreen Mitaru
Time (EAT) 1045 – 1245hrs	Abstract No	Scientific Session 12: Vector Biology-2 VENUE: Mt. Kenya C Session Chair: Dr. Joel Lutomiah Rapporteur: Sheila Mbaabu
	99.	Whole transcriptomic gene profile of Anopheles arabiensis resistant to pyrethroid an organophosphate from western Kenya reveals overexpression of salivary gland and cuticula proteins; Diana Omoke
	100.	Plausibility of skin bacteria as a source of attractive olfactory ecology for Anopheles mosquitoes David Mburu
	101.	The effect of high and low larval growth temperature on microsporidia mb in Anopheles gambia sl; Otieno Fidel
	102.	Vectors of malaria An. arabiensis and An. funestus sampled in Kisumu and Siaya, Kenya, shor resistance to permethrin and other insecticides; Richard Ochieng
	103.	Environmental factors modulate symbiont-host dynamics: Microsporidia MB in Anophele arabiensis, at the Ahero Irrigation Scheme, Kenya; Joseph Gichuhi
	104.	Community engagement to understand the challenges and opportunities for a Microsporidia ME based vector control strategy; Syeda Tullu
	105.	Isolation of tick-borne viruses in ticks collected from domestic animals in selected Counties Kenya Hellen Koka
	106.	Natural sugar feeding rates of Anopheles mosquitoes collected by different methods in wester kenya; Seline Omondi
Time (EAT) 1045 – 1245hrs	Abstract No	Scientific Session 13: Sexual Reproductive Health-1 VENUE: Mt. Kenya D Session Chair: Dr. Betty Njoroge Rapporteur: Schiller Mbuka
	107.	Hybrid rdt for diagonising gonorrhoea and syphillis; Mathenge Julius
	107. 108.	Hybrid rdt for diagonising gonorrhoea and syphillis; Mathenge Julius Effective management of adolescent health through multisectoral approach; Onchari Micah
		Effective management of adolescent health through multisectoral approach; Onchari Micah Syndromic Verses Laboratory diagnosis of Chlamydia trachomatis and Neisseria gonorrhoe
	108.	Effective management of adolescent health through multisectoral approach; Onchari Micah Syndromic Verses Laboratory diagnosis of Chlamydia trachomatis and Neisseria gonorrhoe among Adolescent girls and young women aged 15-20 years in South Western Kenya; Samy Said
	108. 109.	Effective management of adolescent health through multisectoral approach; Onchari Micah Syndromic Verses Laboratory diagnosis of Chlamydia trachomatis and Neisseria gonorrhoe among Adolescent girls and young women aged 15-20 years in South Western Kenya; Samy Said Pre-exposure prophylaxis (PrEP) uptake & associated factors among adolescent girls and youn
	108. 109. 110.	Effective management of adolescent health through multisectoral approach; Onchari Micah Syndromic Verses Laboratory diagnosis of Chlamydia trachomatis and Neisseria gonorrhoe among Adolescent girls and young women aged 15-20 years in South Western Kenya; Samy Said Pre-exposure prophylaxis (PrEP) uptake & associated factors among adolescent girls and youn women (15-20) participating in HPV vaccine trial; Mildred Obare Repeat pregnancy, incidence & associated risk factors among adolescent girls and young women i

1345-1430HRS POSTER SESSION (Abstract No. 023-045)		
AFTERNOON: SCIENTIFIC SESSION 14, & SYMPOSIUM 6-10		
Time (EAT) 1430-1700hrs	Abstract No	Scientific Session 14: Mental Health VENUE: Amboseli Session Chair: Dr. Lucy Chite Rapporteur: Dr. Linus Ndegwa
	114.	A multi-causal pathway to suicide, understanding suicide risk in coastal Kenya: A qualitative study; Linnet Ongeri
	115.	Visual arts as a tool to tackle mental health stigma: Findings from the Difu Simo Mental Health Awareness project in Kilifi County, Kenya; Mary Bitta
	116.	Design and Evaluation by Action Research of the BoB-programme (Build your Own Buddy) in South Sudan: Mental Health & Psychosocial Support for young children; Remy Vink
	117.	Association between maternal depression and child growth in Homa-bay and Migori counties, Kenya; Julius Onyango
	118.	Where are the perpetrators? A situational analysis of the Sexual and gender based violence cases among women at Kendu Sub County Hospital, Homa Bay County, Kenya; Gabriel Kotewas
	119.	Factors associated with substance abuse among mentally ill outpatients seen in a psychiatric hospital in Nairobi, Kenya: A retrospective study; Jane Muriuki

Time (EAT) 1430-1700hrs	SYMPOSIUM 6: SERU VENUE: Tsavo Session Chair: Enock Kebenei Rapporteur: Carolyne Kithinji & Susan Kavai
Time (EAT)	SYMPOSIUM 7: NAPREDA
1430-1700hrs	VENUE: Samburu
	Chair: Dr. Festus Tolo Rapporteur: Dr. Peter Mwitari & Dr. Beatrice Irungu
Time (EAT) 1430-1700hrs	SYMPOSIUM 8: IMPACT OF CLIMATE CHANGE VENUE: Bogoria
	Chair: Prof. Inah Danquah Rapporteur: Dr. Eric Muok & Dr. Steve Wandiga
Time (EAT) 1430-1700hrs	SYMPOSIUM 9: BOHEMIA VENUE: Mt. Kenya C
	Chair: Dr. Marta Maia Rapporteur: Dr. Joseph Mwangangi
Time (EAT) 1430-1700hrs	SYMPOSIUM 10: Drug Delivery using Nanotechnology VENUE: Mt. Kenya D Session Chair: Prof. Bernhards Ogutu Rapporteur: Dr. Jeremiah Gathirwa & Kelvin Thiong'o

DAY THREE FRIDAY 17 th FEBRUARY 2023			
0700-0830hrs	Arrival ar	nd Registration of Delegates	
	PARALL	EL SCIENTIFIC SESSIONS 15-20	
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 15: AMR-1 VENUE: Amboseli Session Chair: Dr. John Mwaniki Rapporteur: Kelvin Kering	
	120.	Antimicrobial Resistance Profiles of Bacteria Recovered from Patients seeking COVID-19 PCR Testing in Nairobi; Japhet Katana	
	121.	Bacteriophages for the treatment and bio control of multidrug resistant Acinetobacter baumannii; Felix Mwai	
	122.	Low Microbiology Diagnostic Capacity in Kenya Public Hospitals: findings from a cross-sectional survey for 20 facilities; Brian Nyamwaya	
	123.	First report of colistin resistance gene mcr-10 in Kenya; Collins Kigen	
	124.	Antibiotic Resistant Vibrio cholerae O1 and its SXT elements associated with cholera outbreaks in Kenya between 2007 and 2016; Mohammad Shah	
	125.	Mutations in MtrR and 23S rRNA genes associated with macrolide resistance in Neisseria gonorrhoeae, Chlamydia trachomatis, and Mycoplasma genitalium among symptomatic women in Busia County, Kenya; Primrose Ndungu	
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 16: Health Systems-2 VENUE: Tsavo Session Chair: Dr. Richard Mutisya Rapporteur: Ishmael Ahamed	
	126.	Plan Do Study Act (PDSA) cycle approach to increase yield from contact management the case of Suna West; Peter Omware	
	127.	Assessing the reception and application of COVID-19 community health messaging in two large diverse urban settlements in Nairobi: a case of Kibra and Nyayo estate Embakasi; James Wodera	
	128.	Prevalence of hiv drug resistance mutations in hiv patients receiving antiretroviral therapy in Western and Coastal regions in Kenya; Juster Mungiria	
	129.	Influence of Strategic Leadership Style on Partnerships Implementation in a Medical Research Organisation in Kenya: A Case Study; George Kirigi	
	130.	Are stories-of-significant change technique useful as a source of capturing experiential evidence for informing policy and practice? Lessons learnt from Kenya; James Kariuki	
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 17: Genomics VENUE: Samburu Session Chair: Dr. Luna Kamau Rapporteur: Tiffany Wandera	
	131.	Comprehensive profiling of antibodies against infectious diseases using the protein microarrays; Elijah Gicheru	
	132.	Whole genome sequencing-based surveillance of rotaviruses in Kenya reveals interspecies transmission, evolution and reassortment events; Ernest Wandera	
	133.	Proteomics an agnostic approach to detect emerging viruses; Armand Paauw	
	134.	Characterization of URST7 as a novel prognostic biomarker and therapeutic target for breast cancer; Regina Wachuka	
	135.	Genomic Analysis of Dengue virus 1 Associated with an Epidemic in Eritrea, 2011; Victor Ofula	
	136.	The use of unbiased whole genome sequencing for pathogen discovery: A case of Rift Valley Fever in Marigat, Baringo County, Kenya; Allan Lemtudo	
	137.	Genetic diversity and antigenic variation at vaccine target sites in Rabies Virus collected from different host species in Makueni and Siaya counties, Kenya; Evalyne Wambugu	

	138.	Development of Thermostable Moloney Murine Leukemia Virus Reverse Transcriptase (MMLV- RT) Enzyme Prototype in Kenya, Utilizing Codon Optimization Strategy; Abdiaziz Gosar
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 18: Public Health-2 VENUE: Bogoria Session Chair: Dr. Sam Aketch Rapporteur: Asiko Ong'aya
	139.	Community members knowledge and perceptions of lung diseases in an urban informal settlement in Nairobi, Kenya; Cynthia Kairu
	140.	A mixed-methods study on residents' treatment-seeking behaviour of tungiasis in Homa Bay County, Kenya; Kana Suzuki
	141.	Exploring Gender Based Violence service provision for Adolescent Girls and Young Women during the COVID-19 pandemic in Kisumu County: A qualitative study among service providers; Isdorah Odero
	142.	Evaluation of Diabetes and Hypertension Surveillance through the Community Empower Health System in Makueni County, Kenya, 2021; Dominic Ongaki
	143.	Using community assets to improve access to cardiovascular disease prevention services: Case study of Health Kiosks in Markets; Bosire Miriam
	144.	Burden and Perception of Overweight and Obesity as a Risk Factor to Cardiovascular Diseases in Vihiga County, Kenya; Melvine Obuya
	145.	My neighbor my buddy: A strategy to reaching the hard-to-reach defaulters in the HIV Stigma burdened Ntimaru area of Kuria Community in Kenya; Nancy Mwita
	146.	Integrated Approaches to empower adolescent girls and young women in Muhuru Ward, Migori County; Seth Midenyo
	147.	Lessons from a Ghanaian model of care that addresses antenatal care holistically, focusing on quality, health promotion, and patients' needs; Jedidia Ayoka
	148.	The effect of Corn Soy Blend plus Vegetable Oil Enhanced with Fish Oil on Immunological Patterns and Clinical Outcomes Among Children Aged 9 to 24 months with Moderate Acute Malnutrition (MAM): A Randomized Clinical Trial; Phelgona Otieno
	149.	Diversity and distribution of fungi in urban and peri-urban residences in Kenya; Olga Mashedi
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 19: Sexual Reproductive Health-2 VENUE: Mt. Kenya C Session Chair: Dr. Betty Njoroge Rapporteur: Irene Thuo
	150.	Prevalence, Progression, and Risk Factors for Abnormal Pap Smear In adolescents and young girls aged 15-20 years in Kenya; Lizzie Kabete
	151.	Prevalence, persistence, clearance and associated risk factors of Bacterial Vaginosis in adolescents and young girls aged 15-20 years in South Western Kenya; Caren Awinja
	152.	Partner Notification Practice among Kenyan Adolescent Girls and Young women aged 15-20 years diagnosed with sexually transmitted infections; Teresia Otieno
	153.	Contraceptive uptake, method switching and associated factors among adolescent girls and young women participating in HPV vaccine trial; Imeldah Wakhungu
	154.	Incident and recurrent sexually transmitted infections in adolescents and young women in southwestern Kenya; Maricianah Onono
	155.	Adverse pregnancy outcomes and associated risk factors among adolescents and young women aged 15-20 years in Kenya; Charlene Jepkoech
Time (EAT) 0830-1000hrs	Abstract No	Scientific Session 20: HIV VENUE: Mt. Kenya D Session Chair: Dr. Samoel Khamadi Rapporteur: Hellen Koka
	156.	Factors associated with severe psychological stress among adults living with HIV in western Kenya; Judy Mwai
	157.	Assessing user preferences for design characteristics of oral dissolvable strips for pediatric HIV medication: a qualitative study; Catherine Wexler

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	158.	Assessing challenges to pediatric ART provision: a qualitative study; Michala Sliefert
	159.	Factors associated with ART retention among adults (>15yrs) living with HIV enrolled in JM Kariuki Hospital, Nyandarua County, 2017-2021; Margaret Wanjiku
	160.	Utility of hair samples in monitoring antiretroviral therapy adherence of persons living with HIV in Kenya; Philomena Chepkirui
	161.	We tested together": Experiences of PLHIV Delivering HIVST to Partners of Unknown HIV Status in Kenya; Catherine Kiptinness
1000-1045H	IRS: TEA	BREAK
1045-1245hrs	PARALL	EL SCIENTIFIC SESSIONS 21- 24
Time (EAT) 1045-1245hrs	Abstract No	Scientific Session 21: Health Systems 3 VENUE: Amboseli Session Chair: Dr Richard Mutisya Rapporteur: Ishmael Ahamed
	162.	Quality assessment of clinical practice guidelines in Kenya using the Appraisal of Guidelines for Research and Evaluation (AGREE) II tool. A Methodological Review; Sagam Caleb
	163.	Evaluating the effectiveness of the National Health Insurance Fund in providing financial risk protection to households with hypertension and diabetes patients in Kenya; Robinson Oyando
	164.	Examination of sub-national capacities for health workforce governance in Kenya: A qualitative case study of two county governments; Joshua Munywoki
	165.	Seasonal Influenza Vaccination in Kenya: What Determines Healthcare Workers' Willingness to Accept and Recommend Vaccination?; Nancy Otieno
	166.	Evaluation of Cholera Surveillance System in Kenya between 2019-2021; Oscar Adidi
	167.	Community Engagement and Co-Development in Designing Non-Communicable Disease Interventions: Case study of HEKIMA; Mbuka Schiller
	168.	Targeting the 'missing middle,' Do free healthcare policies improve health insurance coverage among informal sector workers? A case of the Afya Care pilot program in Kenya; Phidelis Wamalwa
Time (EAT) 1045-1245hrs	Abstract No	Scientific Session 22: MCH-2 VENUE: Tsavo Session Chair: Dr. Benson Singa Rapporteur: Lillian Mayieka
	169.	Caring for providers to improve patient experience: mentorship needs of maternal healthcare providers in Migori County, Kenya; Joyceline Gaceri
	170.	Characterizing Aspiration Pneumonia among Under Five deaths enrolled in the Child Health and Mortality Prevention Surveillance (CHAMPS) Network in Western Kenya; Joyce Akinyi
	171.	Non-Communicable Diseases research: Trends and priorities in KEMRI's past 5 years; Timothy Kipkosgei
	172.	The difficult situation in maternity care: triggers and strategies from provider perspective in Migori County, Kenya; Edwina Ndhine
	173.	Quantitative culture of the probiotic microorganisms contained in the supplements administered to infants in the PROSYNK (PRObiotics and SYNbiotics in infants in KENYA) study; Micah June
	174.	Group care for antenatal care services: Experiences of women in rural Ghana; Jedidia Ayoka
	Abstract	Scientific Session 23: Malaria
Time (EAT) 1045-1245hrs	No	VENUE: Samburu Session Chair: Francis Kimani Rapporteur: Rukia Haji
	No 175.	Session Chair: Francis Kimani Rapporteur: Rukia Haji
		Session Chair: Francis Kimani Rapporteur: Rukia Haji Four years of antimalarial Resistance Marker Surveillance using School Surveys in Kenya; Victor

	178.	Impact of Malaria Rapid Diagnostic Tests on Patient-Important Outcomes in sub-Saharan Africa: A systematic Review of Study Methods; Jenifer Otieno
	179.	Low frequency of Plasmodium falciparum hrp 2/3 deletions from symptomatic infections at a primary healthcare facility in Kilifi, Kenya; Dorcas Okanda
	180.	Antimalarial Susceptibility of Plasmodium falciparum field isolates from Busia county in Kenya; Farid Abdi
	181.	Identification of malaria hotspots in a highland site in western Kenya; Benyl Ondeto
	182.	Limited genetic variations of the Rh5-CyRPA-Ripr invasion complex in Plasmodium falciparum parasite population in selected malaria-endemic regions, Kenya; Harrison Waweru
Time (EAT) 1045-1245hrs	Abstract No	Scientific Session 24: AMR-2 VENUE: Bogoria Session Chair: Dr. John Mwaniki Rapporteur: Kelvin Kering
	183.	Most common resistant phenotypes, genotypes and prevalence of multidrug resistant (MDR) Salmonella Typhi in acute disease and chronic carriage in endemic setting in Nairobi County, Kenya; Susan Kavai
	184.	Genomic characterization of two community-acquired methicillin-resistant staphylococcus aureus with novel sequence types in Kenya; John Njenga
	185.	Extended spectrum beta lactamase producing Gram negative bacteria colonizing neonates admitted in the neonatology units at Bugando Medical Centre, Mwanza, Tanzania; Jacobo Machimu
	186.	Typhoidal Salmonella disease, carriage, diversity and antimicrobial resistant genes in Mukuru informal settlement, Nairobi Kenya; Purity Nakhayo
	187.	Multidrug resistant bacterial infections in severely ill COVID-19 patients admitted in a national referral and teaching hospital, Kenya; Jeniffer Mutua
	188.	Comparative Evaluation of The Automated Vitek 2 And Microbroth Dilution Methods On Colistin Antibiotic Susceptibility Test Results; Michelle Atieno
	189.	Gastrointestinal Carriage of Vancomycin-Resistant Enterococci and Carbapenem-Resistant Gram- Negative Bacteria among Inpatients and Outpatients at Kiambu County Referral Hospital, Kenya; Anthony Maina

1300-1400HRS: LUNCH BREAK CLOSING CEREMONY

	Master of Ceremony: Dr. Sophie Uyoga
1400-1600hrs	Conference outcomes & resolutions Chief Rapporteur: Dr. Steve Wandiga
	Awarding Ceremony: Dr. Vera Manduku
	Sponsors and Exhibitors: Prof. Charles Mbogo
Official Closing remarks KASH Chair: Dr. Cecilia Mbae Ag. Director General & CEO, KEMRI Chair KEMRI Board of Directors	KASH Chair: Dr. Cecilia Mbae Ag. Director General & CEO, KEMRI
	Vote of thanks- Dr. Damaris Matoke-Muhia

POSTERS

SUB THEME	Abstract No	Poster Title
Antimicrobial Resistance	1.	Point prevalence survey to assess antibiotic prescribing pattern among hospitalized patients in a county referral hospital in Kenya; Racheal Wanjiku
Antimicrobial Resistance	2.	Antimicrobial Resistance in ESKAPE Pathogens from Inpatients at Nairobi West Hospital, June-December 2021; Mercy Cheptoo
COVID-19	3.	COVID-19 symptoms prevalence and associated outcomes in COVID-19 patients admitted at two major isolation centers in Kisumu County, Western Kenya; Josephine Awino
COVID-19	4.	Multidisease testing of covid-19 and tb in Kenya; Solomon Bundi
Genomics	5.	Analysis of the metagenomic virome of Aedes aegypti mosquitoes from Coastal Kenya; Solomon Langat
Genomics	6.	Dengue serotype dynamics at the Kenyan Coast, 2019-2022; Josphat Nyataya
Genomics	7.	An integrated analysis of host transcriptome and metagenome to elucidate etiology of acute non- traumatic coma of unknown cause in Kilifi, Kenya; Brenda Karumbo
Health Systems	8.	Population Health Needs, Health Systems Readiness, and Client Satisfaction in the Context of Implementation of Universal Health Coverage in Bomet County, Kenya; Priscah Otambo
Health Systems	9.	Implementation of the caring for providers to improve patients experience (cpipe) intervention in Kenya: challenges, success and lessons; Beryl Akinyi
Health Systems	10.	External validation of a pediatric triage model for use in resource limited facilities to guide frontline health workers; Joyce Kigo
Health Systems	11.	The Evaluation of Human Brucellosis Surveillance System in Uasin Gishu County-Kenya 2022; Stephen Olubulyera
Health Systems	12.	Overcoming Barriers to Clinical Trial Enrollment in Sub-Saharan Africa by Addressing Financial Burdens of Cancer Patients: A Case of International Cancer Institute, Kenya; Gloria Kitur
Health Systems	13.	Laboratory safety audits a game changer in infection prevention and control; Duncan Odhiambo
Health Systems	14.	Lessons from a unique system to promote child and youth health; Symone Detmar
Health Systems	15.	Developing a digital health Intervention to promote uptake and use of PrEP and contraception among adolescent girls and young women in Kenya :Insights from a qualitative study; Joan Ongere
Health Systems	16.	Case Report: β-thalassemia major on the East African coast (Kilifi); Johnstone Makale
HIV	17.	Linkages of HIV exposed, and HIV positive children aged 0-24 months between PMTCT and nutrition clinics in 3 facilities in Western Kenya; Damaris Odhiambo
HIV	18.	Retension strategies for cross-border hiv clients during COVID-19 pandemic a case of olasi dispensary ,Migori County; Eugene Ariya
Malaria	19.	Macrophage responses in Placental malaria; Fred Owuor
Malaria	20.	The Role of Plasmodium falciparum HSP90 in Antimalarial Drug Treatment Outcome in a 3 Malaria Endemic Region, Kisumu County; Lewis Karani
Maternal and Child Health	21.	Midwifery-Led Research For Evidence-Based Practice: Clinical Midwife's Engagement In Research In Ethiopia, 2021; Keflie Yohannes
Mental Health	22.	Utilization of Patient Health Questionnaire-9 depression screening tool at Care and Treatment Centers in Mbeya, Tanzania; Amani Kway
Mental Health	23.	Acceptability of using Friendship Bench as an Intervention for addressing trauma among Adolescent Girls and Young Women experiencing Gender-based violence in Kisumu County, Kenya; Eucabeth Awuonda
Neglected Tropical Diseases (NTDs) and One Health	24.	An outbreak investigation: The burden and factors associated with occurrence of Visceral Leishmaniasis in Tharaka Nithi County, Kenya; Joanne Yego

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Non- Communicable Diseases	25.	Ochratoxins and deoxynivalenol contamination of cereals in Kibra; Evageline Gatumwa
Non- Communicable Diseases	26.	The adaptation of therapeutic carbohydrate restriction diet for the reversal/remission of type 2 Diabetes mellitus in Kenya; Evaline Onyango
Non- Communicable Diseases	27.	Community health workers' awareness regarding oral health in kigali, rwanda; Niyigena Fabrice
Public Health	28.	Hepatitis B vaccination status among healthcare workers at Nyahera Sub-county hospital; Duncan Odhiambo
Public Health	29.	Modelling heat stress in conjunction with other stressors: identification of vulnerable; Bernice Scholten
Public Health	30.	Understanding U=U informs HIV prevention decisions in Kenya; Njeri Wairimu
Public Health	31.	Perspectives of healthcare workers on pre-treatment loss to follow-up in adults with pulmonary TB in Western Kenya: an exploratory qualitative study; Mercy Mulaku
Public Health	32.	Phylogenetic diversity of fungi isolated from indoor urban environments in Nairobi Kenya; Olga Mashedi
SRH	33.	Factors Associated with Research knowledge and Attitude among Clinical Midwives Working at Public Health Facilities of Northwest Ethiopia, 2021: A Cross-Sectional Study; Keflie Yohannes
SRH	34.	Prevalence of selected sexually transmitted infections among men who have sex with men on pre-exposure prophylaxis in Kiambu County, Kenya; Caleb Ombati
Tuberculosis	35.	Localization of tuberculosis patients' determinants: Patterns for presumptive cases from a coastal health facility in Kenya; Fred Orina
Tuberculosis	36.	Association between the latent TB infection and body mass index of patients from clinical sites in Nairobi, Kenya; Robi Chacha
Tuberculosis	37.	Integration of Quality Improvement (QI) approach in intensified TB active case finding (ACF), a case of Awendo Sub County; Nelly Okwiri
Tuberculosis	38.	Clinical and Social Demographic characteristics of TB/HIV cohort in Nairobi, Kenya; Paul Waiganjo
Vector Biology	39.	Detection of Insecticide Resistance by Culex pipiens complex to several insecticides in Kenya; Santos Yalwala
Vector Biology	40.	Microsporidia MB is associated with Anopheles mosquitoes in different agro-ecological conditions; Oscar Mbare
Vector Biology	41.	Comparison of different trapping methods to collect malaria vectors indoors and outdoors in western kenya; Jackline Jeruto

ABSTRACT BOOK

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