

# AIBBC 2023 Conference Program



Oct. 30<sup>th</sup> – Nov. 4<sup>th</sup> 2023

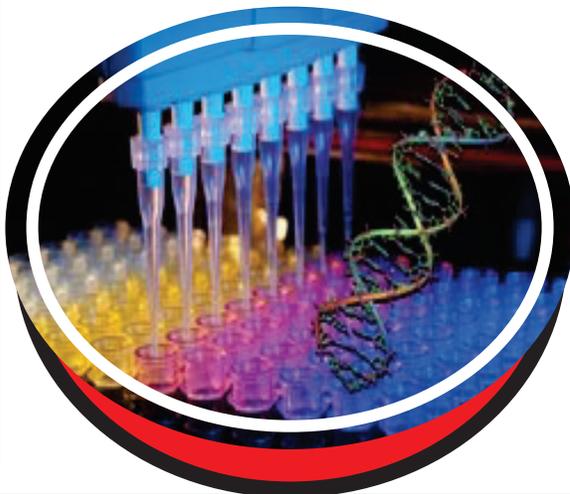
## 6<sup>th</sup> Africa International Biotechnology & Biomedical Conference **AIBBC 2023**



Advancing Science & Technology for Sustainable Development in Africa

**Venue: Lake Naivasha Resort, Naivasha Kenya**

**Conference website:** <https://aibbc2023.aibbc-society.org/conference.html>





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**6th Africa International Biomedical & Biotechnology Conference (AIBBC 2023)**  
**PART II CONFERENCE**  
**Nov.2-4, 2023, Naivasha, KENYA**

CONFERENCE PROGRAM OUTLINE					
	CONFERENCE				Biodiversity
Date/Time	Conf. Session	Thursday Nov 2nd		Friday Nov 3rd	Saturday Nov 4th
07:30-08:00	Registration and badge pickup				
08:00-09:00	Opening	Opening ceremony		Announcements	Gathering
09:00-10:30	Session I	Biomedical and Biotechnology for the Society	Session V	Insights into Viral Infections and Control	Post-conference biodiversity tour  (details to be announced at the venue)
10:30-11:00	Coffee break				
11:00-12:30	Session II	Early-career Investigators Session I	Session VI	Multidisciplinary Approaches for Fighting Infectious Diseases	
12:30-13:00	Presentations by Corporate Sponsors				
13:00-14:00	LUNCH				
14:00-15:00	POSTERS	POSTER SESSION I	Session VII	POSTER SESSION II	
15:00-16:45	Session III	Advances in Molecular Diagnostics		Early-career Investigators Session II	
16:45-17:15	Coffee break				
17:15-19:00	Session IV	Microfluidics and Biomedical Applications	Session VIII	Frontiers in Basic Mechanisms and Practical Applications	
18:00-21:00	Extended activities	ANNUAL GENERAL MEETING (for The Society for Biotech Biomedical Research, SBRR) Dinner & Networking (others)			

# AIBBC 2023 Speakers

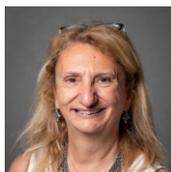
## Invited speakers



**Prof. Aman Russom**,  
KTH Royal Institute of  
Technology, Sweden



**Prof. Andrea Cossarizza**,  
Univ. Modena & Reggio  
Emilia Modena - Italy



**Prof. Cristina MUSSINI**,  
University of Modena &  
Reggio Emilia Modena - Italy



**Prof. Douglas J Perkins**,  
University of New  
Mexico (UNM), USA



**Prof. Elisa Vicenzi**,  
San Raffaele Scientific  
Institute, Italy



**Dr. Eric Ochomo**,  
Kenya Medical Research  
Institute, Kisumu, Kenya



**Dr. Eunice Machuka**,  
Intl Livestock Research  
Institute (ILRI), Kenya



**Prof. Evans C. Egwim**,  
Federal University of  
Tech. Minna, Nigeria



**Dr. Hiroko Hanzawa**,  
R&D Group,  
Hitachi Ltd, Japan



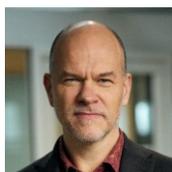
**Prof. Hiromi Miyoshi**,  
Tokyo Metropolitan  
University, Japan



**Dr. Isabel Pagani**,  
Vita-Salute San  
Raffaele Univ., Italy



**Prof. Jacqueline  
C. Linnes**, Purdue  
University, USA



**Prof. Jakob Skou  
Pedersen**, Aarhus  
University, Denmark



**Prof. Jiali HAN**,  
Indiana University,  
Indianapolis, USA



**Dr. Lucy Ochola**,  
Institute of Primate  
Research, Kenya



**MSc. Lucy Tecle**,  
Purdue University,  
Indiana, USA



**Prof. Masood Kamali-  
Moghaddam**, Uppsala  
University, Sweden



**Prof. Orlando S.  
Hoilet**, University of  
Cincinnati, USA



**Prof. Roderic I.  
Pettigrew**, Texas A&M  
University, USA



**Prof. Serap Aksoy**,  
Yale University, USA



**Prof. Takahiro Nitta**,  
Gifu Univ. Japan



**Prof. Tamara Kinzer-  
Ursem**, Purdue  
University, USA



**Prof. Yasuhiro  
Inoue**, Kyoto  
University, JAPAN



**Mr. Martin S.  
Magwaza**, 3Sixty  
Global Solutions Group

## Oral presenters selected based on outstanding abstracts

Names	Institution	Country
Ethel Webi	International Livestock Research Institute	Kenya
Cynthia Awuor Odhiambo	Kenya medical research Institute	KENYA
Ben Otieno Otange	Hamburg University	Germany
Ombeni Filemon Ally	Jomo Kenyatta University of Agriculture and Technology	Kenya
Kevin Otieno Amolo	Kyoto University	Japan
Lucy Muthoni Mwai	Mount Kenya University	Kenya
Alexandra Lindsey Djomkam Zune	West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana, Accra, Ghana	Ghana
Alberta Serwaa	West African Centre for Cell Biology of Infectious Pathogens, University of Ghana.	Ghana
Austine Okpaga Ume	DAVID UMAHI FEDERAL UNIVERSITY OF HEALTH SCIENCES, UBURU, EBONYI STATE, NIGERIA	NIGERIA
Samuel B. Anyona	Maseno University	Kenya

## AIBBC 2023 Conference Program Day 1- Thursday Nov. 2nd

07:30-8:00	<b>Registration and badge pickup</b>
<b>Opening ceremony</b>	
08:00 - 08:10	Opening remarks by <b>Prof. Collins Ouma</b> (Maseno University, Kenya)
08:10 - 08:20	Opening remarks by <b>Prof. J. Paul Robinson</b> (Purdue University, USA)
08:20 - 08:40	Opening remarks by <b>Dr. Eliud Kirger</b> (Director General, KALRO, Kenya)
08:40 - 08:50	Remarks on the launch of the Kenyan Chapter by <b>Prof. Collins Ouma</b>
08:50 - 09:00	Official launch of the Kenyan Chapter by <b>Prof. Joseph S. Chacha</b> (DVC-PRI, Maseno University)
<b>Session I Biomedical and Biotechnology for the Society</b>	
<b>09:00-10:30 Session Chair: J. Paul Robinson, Purdue University, USA</b>	
09:00 - 09:40	Engineering for Global Health <b>Roderic Pettigrew</b> - CEO of EnHealth and Executive Dean for EnMed, Texas A&M University, USA
09:40 - 10:05	Bioeconomy: Hitachi's R&D activities for a sustainable and well-being society <b>Hiroko Hanzawa</b> - Chief Researcher/ Deputy Laboratory Manager, Hitachi Ltd, Japan
10:05 - 10:30	Characterization of keratinase expressed from dump site isolates for the production of cheap protein rich poultry feed <b>Evans Chidi Egwim</b> - Professor, Federal University of Technology Minna & Caleb, Nigeria
10:30 - 11:00	<b>Coffee break – Meet the exhibitors</b>
<b>Session II Early-career Investigators Session I</b>	
<b>11:00-12:30 Session Chair: Eddy Odari, JKUAT, Kenya</b>	
11:00 - 11:15	Transfection of the apicomplexan parasite <i>Theileria parva</i> sporozoites <b>Ethel Webi</b> - International Livestock Research Institute of Nairobi, Kenya
11:15 - 11:30	Improving the selectivity and sensitivity of molecularly imprinted polymers from templates of higher biomolecular weight: an application in cancer target <b>Ben Otieno Otange</b> - Hamburg University, Germany
11:30 - 11:45	Evaluation of cassava and potato starch in the separation of DNA as alternative to Agarose gel <b>Austine Okpaga Ume</b> - Nigerian Defence Academy, Nigeria
11:45 - 12:00	Comprehensive analysis of blood microRNA profiles during fattening process in Japanese Black cattle <b>Kevin Otieno Amolo</b> - Kyoto University, Japan
12:00 - 12:15	Identification of key <i>Plasmodium falciparum</i> antigens associated with pregnancy-specific malarial immunity <b>Lucy Muthoni Mwai</b> - Mount Kenya University, Kenya
12:15 - 12:30	Signal enhanced HPV protein detection for paper-based immunoassay tests <b>Lucy Teberh Teclé</b> - Purdue University, USA
<b>Presentations by Corporate Sponsors</b>	
<b>12:30-13:00 Coordinator: Kennedy Okeyo, Jackson Laboratory, USA/Japan</b>	
12:30 - 12:45	HITACHI LTD <b>Dr. Shinji Nishimura, General Manager, Hitachi Ltd, Japan</b>
12:45 - 13:00	Beckman Coulter <b>Mr. Newton Kimiywi, Beckman Coulter, Kenya</b>
13:00 - 14:00	<b>Lunch break – Meet the exhibitors</b>
14:00 - 15:00	<b>Poster session, Day 1</b> <b>Chairs/Coordinators: Celestine Makobe, JKUAT, Kenya Josiah Kuja, Copenhagen University, Denmark</b>
<b>Session III Advances in Molecular Diagnostics</b>	
<b>15:00-16:45 Session Chair: Jesse Gitaka, Mount Kenya University, Kenya</b>	
15:00 - 15:25	An integrated sample amplification control for Point-of-Care molecular diagnostics in saliva <b>Jacqueline C. Linnes</b> - Associate Professor, Purdue University, USA
15:25 - 15:50	Advanced molecular tools for detection and characterization of extracellular vesicles <b>Masood Kamali-Moghaddam</b> - Professor, Uppsala University, Sweden
15:50 - 16:15	Patient-Informed Devices for Advancing Human Health <b>Orlando Hoilett</b> - Assistant Professor, University of Cincinnati, USA
16:15 - 16:45	Detection of circulating tumor DNA <b>Jakob Skou Pedersen</b> - Professor, Aarhus University, Denmark
16:45 - 17:15	<b>Coffee break – Meet the exhibitors</b>
<b>Session IV Microfluidics and Biomedical Applications</b>	
<b>17:15-19:00 Session Chair: Kennedy O. Okeyo, Jackson Laboratory, USA/Japan</b>	
17:15 - 17:45	The application of microfluidic devices in cancer diagnostics <b>Aman Russom</b> - Professor, Royal Institute of Technology, Sweden
17:45 - 18:10	Evaluation of cell migration under visible-light irradiation <b>Hiroshi Miyoshi</b> - Associate Professor, Tokyo Metropolitan University, Japan
18:10 - 18:35	<b>Tamara L. Kinzer-Ursem</b> - Associate Professor, Purdue University, USA
18:35 - 19:00	A printable artificial muscle by engineered biomolecular motors <b>Takahiro Nitta</b> - Professor, Gifu University, Japan
19:00 - 21:00	<b>ANNUAL GENERAL MEETING (for SBBR members)/ Dinner &amp; Networking (others)</b>

# AIBBC 2023 Conference Program Day 2- Friday Nov. 3rd

## Session V *Insights into Viral infections and Control*

**09:00-10:30** Session Chair: **Benson Nyambega, Maseno University, Kenya**

09:00 - 09:25	Unveiling the pathogenesis of pediatric severe malarial anemia with a comprehensive multi-omics approach <b>Douglas J. Perkins</b> - Professor, University of New Mexico, USA
09:25 - 09:50	Vector control in response to the changing malaria landscape <b>Eric Ochomo</b> - Senior Research Scientist, Kenya Medical Research Institute, Kenya
09:50 - 10:15	The soluble arm of innate immunity: exploring the role of mannose-binding lectin in SARS-CoV-2 infection <b>Elisa Vicenzi</b> - Professor, San Raffaele Scientific Institute, Italy
10:15 - 10:30	Presentation by Sponsor <b>Africa Biosystems</b>
10:30 - 11:00	<b>Coffee break – Meet the exhibitors</b>

## Session VI *Multidisciplinary Approaches for Fighting Infectious Diseases*

**11:00-13:00** Session Chair: **Steven Ger Nyanjom, JKUAT, Kenya**

11:00 - 11:25	Spillovers and the immune system <b>(VIRTUAL) Andrea Cossarizza</b> - Professor, University of Modena and Reggio Emilia, Italy
11:25 - 11:50	Update on HIV infection <b>(VIRTUAL) Cristina Mussini</b> - Professor, University of Modena and Reggio Emilia, Italy
11:50 - 12:15	Elimination of schistosomiasis and contribution to the WHO road map <b>Lucy Ochola</b> - Senior Scientist, Kenya Institute of Primate Research, Kenya
12:15 - 12:30	Giving drugs a second chance: repurposing heparin and its derivatives to prevent ZIKA virus infection and cytopathic effect in human neural progenitor cells <b>Isabel Pagani</b> - Postdoctoral Fellow, San Raffaele Scientific Institute, Italy
12:30 - 13:00	<b>KEYNOTE</b> : Skin cancer: from molecular epidemiology to multidisciplinary research <b>Jiali Han</b> - Professor, Indiana University, USA
13:00 - 14:00	<b>Lunch break – Meet the exhibitors</b>
<b>14:00 - 15:00</b>	<b>Poster session, Day 2</b>

Chairs/Coordinators: **Josiah Kuja, Copenhagen University, Denmark**  
**Dawn Maranga, Kenya Institute of Primate Research, Kenya**

## Session VII *Early-career Investigators Session II*

**15:00-16:15** Session Chair: **Evans C Egwim, Federal University of Technology, Nigeria**

15:00 - 15:15	Identification of insecticide resistance markers and understanding associated molecular mechanisms in <i>Anopheles arabiensis</i> and <i>Anopheles gambiae</i> from Kenya and Benin using Weighted Gene Correlation Network Analysis. <b>Cynthia Awuor Odhiambo</b> - Jomo Kenyatta University of Agriculture and Technology, Kenya
15:15 - 15:30	Genome mining-based identification of Identical Multi-Repeat Sequences in <i>Schistosoma mansoni</i> and <i>Schistosoma haematobium</i> <b>Ombeni Filemon Ally</b> - Pan African University Institute for Basic Sciences Technology and Innovation, Kenya
15:30 - 15:45	DNA methylation profiling identifies novel markers of prostate cancer aggressiveness among Ghanaians <b>Alexandra Lindsey Djomkam Zune</b> - University of Ghana, Ghana
15:45 - 16:00	Effects of SARS-CoV-2 infection on cancer-like cell phenotypes and cytokine expression <i>in-vitro</i> <b>Alberta Serwaa</b> - University of Ghana, Ghana
16:00 - 16:15	Altered ubiquitination process in Kenyan children with severe malarial anemia <b>Samuel B. Anyona</b> - Maseno University, Kenya
16:15 - 16:45	<b>Coffee break – Meet the exhibitors</b>

## Session VIII *Frontiers in Basic Mechanisms and Practical Applications*

**17:45-19:00** Session Chair: **Lucy Ochola, Institute of Primate Research, Kenya**

17:45 - 18:10	Innovative vector control methods to combat African Trypanosomiasis <b>(VIRTUAL) Serap Aksoy</b> - Professor, Yale University, USA
16:45 - 17:10	Multicellular dynamics simulation for understanding epithelial tissue morphogenesis <b>Yoshihiro Inoue</b> - Professor, Kyoto University, Japan
17:10 - 17:45	Host-pathogen interaction mechanisms in exotic and locally-adapted domestic pigs challenged with a genotype IX African Swine Fever virus isolate <b>Eunice M. Machuka</b> - Research Officer, International Livestock Research Institute, Kenya
18:10 - 18:40	Closing talk: Building technology enterprises in Africa (tentative) Martin S. Magwaza, Chief Scientific Officer, 3Sixty Global Solutions Group, South Africa
18:40 - 19:00	<b>Closing Ceremony</b> (MC: Winnie Okeyo, KALRO, Kenya)
19:00 - 21:00	<b>Award Ceremony/Banquet</b> (MC: Eddy Odari, JKUAT, Kenya)

## POSTER PRESENTATION PROGRAM (AIBBC 2023)

### Day 1 posters (Thursday Nov 2nd)

Poster #	Name	Institution	Country	Abstract Title
D1P01	Tyrus Omondi	Masinde Muliro University of Science and Technology	Kenya	Prostate Cancer Histomorphology, Perineural and Lymphovascular invasion of Archived formalin fixed paraffin embedded prostate biopsies from prostate adenocarcinoma patients in western Kenya.
D1P02	Michael Maina	Mount Kenya University	Kenya	CHARACTERIZING THE GENETIC VARIATION OF THE PLASMODIUM FALCIPARUM CSP GENE IN PARASITE ISOLATES FROM HOMABAY HOSPITAL, WESTERN KENYA.
D1P03	Mary Njeri Wachira	Mount Kenya Univesity, Kenyatta University	Kenya	Towards the Development of a Microfluidic Device for Point-of-care Detection of Viable Cryptococcus neoformans
D1P04	Mary Kanyiri Murithi	Jomo Kenyatta University of Agriculture and Technology	Kenya	ASSOCIATION OF rs4646903 AND rs1048943 CYP1A1 ESTROGEN METABOLIZING GENE POLYMORPHISMS WITH ESTROGEN RECEPTOR POSITIVE BREAST CANCER IN KENYAN WOMEN
D1P05	Harrison Kihuga Waweru	Mount Kenya University	Kenya	LIMITED GENETIC VARIATIONS OF THE RH5-CYRPA-RIPR INVASION COMPLEX IN PLASMODIUM FALCIPARUM PARASITE POPULATION IN SELECTED MALARIA-ENDEMIC REGIONS, KENYA.
D1P06	Maurine Mumo Mutua	Jomo Kenyatta University of Agriculture and Technology	Kenya	Strategy for Expressing SARS-CoV-2 Nucleocapsid Protein using Wheat Germ Cell-Free System for Monoclonal Antibody Production
D1P07	Oluwatoyin Ojo	Anchor University Lagos	Nigeria	QUERCETIN-ZINC AMELIORATES CARBENDAZIM-INDUCED OXIDO-SPERMATOGENIC DYSFUNCTION IN TESTES OF MICE
D1P08	Abraham Mayoke	Pan African University Institute for Basic Sciences, Technology and Innovation	Kenya/DRC	PHYLOGENETIC RELATIONSHIP AND GENETIC DIVERSITY OF GLOSSINA FUSCIPES (s.l) FROM CONGO BRAZZAVILLE: PAVING WAY FOR TSETSE CONTROL
D1P09	Innocent Oluwaseun Okpako	Pan African University Institute of Basic Sciences, Technology and Innovation	Kenya	Antiproliferative Activity of Euphorbia ingens extract against Prostate Cancer Cell Line: An in silico and in vitro Analysis
D1P10	Alex Kiplagat Rotich	Mount Kenya University	Kenya	ASSESSMENT OF GENETIC DIVERSITY OF P. FALCIPARUM CHONDROITIN SULFATE A LIGAND; A PREGNANCY-ASSOCIATED MALARIA VACCINE ANTIGEN
D1P11	Racheal Kimani	Mount Kenya University	Kenya	HIGH RATE OF METHICILLIN RESISTANCE OF STAPHYLOCOCCI ISOLATED FROM HOSPITALIZED THIKA LEVEL V PATIENTS AND INANIMATE OBJECTS
D1P12	Pauline Winnie Orondo	Jomo Kenyatta University of Agriculture and Technology	Kenya	EFFECTS OF BACTERIAL COMPOSITION ON MALARIA VECTOR LARVAL AVAILABILITY IN IRRIGATED AND NON- IRRIGATED SITES OF HOMA BAY COUNTY, WESTERN KENYA
D1P13	Jackson Ochieng Odhiambo	Moi University	Kenya	Cleome gynandra LEAF EXTRACT'S POTENTIAL TO REVERSE MERCURIC CHLORIDE- INDUCED KIDNEY INJURY IN A RAT EXPERIMENTAL MODEL
D1P14	Rahma Ordofa Golicha	KENYA MEDICAL RESEARCH INSTITUTE(KEMRI)	KENYA	REDEFINING THE GLOBAL PHYLOGENY OF THE GENUS AEROMONAS
D1P15	Anicette Chafa Betbeui	Yaoundé University Teaching Hospital	Cameroon	EVOLUTION OF THE RESISTANCE PROFILE OF KLEBSIELLA SPECIES TO ANTIBIOTICS OVER THE LAST TEN YEARS AT THE YAOUNDE UNIVERSITY TEACHING HOSPITAL, YAOUNDE, CAMEROON
D1P16	Rachael Wangeci Waithaka	Jomo Kenyatta University of Agriculture and Technology	Kenya	CHARACTERIZATION OF EXTENDED SPECTRUM BETA-LACTAMASE AND CARBAPENAMASE PRODUCING ENTEROBACTERIACEAE CAUSING URINARY TRACT INFECTION AMONG CHILDREN ATTENDING GERTRUDE'S CHILDREN'S HOSPITAL, NAIROBI, KENYA
D1P17	Samuel Onsomu Kenyanya	Kisii University	Kenya	THE IN VITRO IMMUNOMODULATORY EFFECTS OF FREE & CHITOSAN NANO-ENCAPSULATED SELECTED FLAVONOIDS ON THP-1-DERIVED MACROPHAGES
D1P18	Perez Kola Olewe	Jaramogi Oginga Odinga University of Science and Technology	Kenya	HEMOGLOBINOPATHIES AND MEROZOITE SURFACE PROTEIN-2 GENE POLYMORPHISMS AND ASSOCIATION TO ESTEIN BARR VIRUS ACQUISITION IN INFANTS ≤12FROM WESTERN KENYA
D1P19	Usunomena Usunobun	Edo State University Uzairue	Nigeria	CHROMOLAENA ODORATA SUPPLEMENTATION ATTENUATE METHOTREXATE -INDUCED KIDNEY DAMAGE AND OXIDATIVE STRESS
D1P20	Elsa-Rush Eyang Assengone	Centre International de Recherches Médicales de Franceville	Gabon	PERFORMANCE OF A RT-PCR FOR THE DIAGNOSTIC OF LOIASIS IN AN ENDEMIC AREA IN GABON
D1P21	Godson Ofobuike Eze	AHMADU BELLO UNIVERSITY, ZARIA	NIGERIA	THE SMALL MOLECULE BMH-21, AN RNA POLYMERASE I INHIBITOR, CLEARS TRYPANOSOMA BRUCEI BRUCEI INFECTION IN ALBINO RATS
D1P22	John Denge Agira	AFRICAN POPULATION AND HEALTH RESEARCH CENTRE	KENYA	QUANTITATIVE MOLECULAR DETECTION OF ENTERIC PATHOGENS FROM INFANT STOOL SAMPLES IN LOW AND MIDDLE-INCOME NEIGHBOURHOODS OF NAIROBI, KENYA
D1P23	Jean Baptiste Niyibizi	University of Global Health Equity	Rwanda	Assessment of unexpected antibodies with their associated clinical conditions among patients and blood donors attending University Teaching Hospital of Kigali (CHUK) and Rwanda Blood Transfusion Division
D1P24	John Lukoye Kedogo	Jomo Kenyatta University of Agriculture and Technology	Kenya	VALIDATION OF A BIOME SMARTPHONE-BASED DNA REAL-TIME PCR ASSAY FOR DIAGNOSIS OF HUMAN MALARIA AT THE POINT OF CARE
D1P25	Meshack Tweya Omwega	Institute of Primate Research	Kenya	PHAGE THERAPY FOR TREATMENT OF VIRULENT Pseudomonas aeruginosa INFECTION IN A MOUSE MODEL
D1P26	Sharon Kwamutakha	Maseno University	KENYA	Molecular Detection of E. coli Isolates from Household Soil Samples Collected from Three Sites in Kisumu County, Kenya: on-going study
D1P27	Dickson Mbuba Gitonga	Jomo Kenyatta University of Agriculture and Technology	Kenya	FACTORS ASSOCIATED WITH ISONIAZID PREVENTIVE THERAPY AMONG HIV PATIENTS ATTENDING COMPREHENSIVE CARE CLINIC AT CHUKA COUNTY REFERRAL HOSPITAL, KENYA.
D1P28	Cyril Ogbiko	David Umahi Federal University of Health Sciences, Uburu Ebonyi State Nigeria	Nigeria	ANTIMICROBIAL AND ANTIOXIDANT XANTHONE DERIVATIVE FROM PILIOSTIGMA THONNINGII LEAVES

**Day 1 posters (Thursday Nov 2nd)--CONTINUED**

D1P29	Martin Wekesa Sifuna	Chiba University	Japan	DEVELOPMENT OF LOW POWER LAB-ON-A-CD ELECTRICAL IMPEDANCE ANALYZER FOR IN-SITU BIOMEDICAL APPLICATIONS
D1P30	Ikenna Chukwuemeka Maduako	Dominion University Ibadan	Nigeria	GLYPICAN-3 DEPENDENT PROTEIN REGULATION IN HEPATOCELLULAR CARCINOMA AND THE POTENTIAL ROLE IN C
D1P31	Agnes Chelangat Cheruiyot	Kenya Medical Research Institute	Kenya	Characterization of Kenyan Plasmodium Falciparum Field Isolates for Development of Novel Controlled Human Malaria Infection Strains
D1P32	Abdinoor Kassim Dagane	Jomo Kenyatta University of Agriculture and Technology	Kenya	DETERMINATION OF PHYTOCHEMICALS PRESENT AND ANTIMICROBIAL ACTIVITY OF NIGELLA SATIVA EXTRACTS AGAINST ESCHERICIA COLI, STAPHYLOCOCCUS AUREUS, PSEUDOMONAS AERUGINOSA AND CANDIDA ALBICANS
D1P33	Margaret Akumu Odeph	Jomo Kenyatta University of Agriculture and Technology	KENYA	MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF FUNGAL SPECIES ASSOCIATED WITH THE FINGER MILLET (Eleusine coracana) BLAST PATHOGEN Pyricularia oryzae IN KENYA.
D1P34	James Gachugia Mwangi	Jomo Kenyatta University of Agriculture and Technology	Kenya	EVALUATION OF THE COLOURIMETRIC MALACHITE GREEN LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (MG-LAMP) ASSAY FOR THE DETECTION OF MALARIA SPECIES AT TWO DIFFERENT HEALTH FACILITIES IN A MALARIA ENDEMIC AREA OF WESTERN KENYA
D1P35	Hellen Kivandi Abisi	University of Nairobi	Kenya	Net charge and position 22 of the V3 loop are associated with HIV-1 tropism in recently infected female sex workers in Nairobi, Kenya
D1P36	Charchil Onyango Ayodo	Washington State University Global Health Kenya	Kenya	RISK FACTORS FOR COLONIZATION WITH MULTIDRUG-RESISTANT BACTERIA IN URBAN AND RURAL COMMUNITIES IN KENYA: AN ANTIMICROBIAL RESISTANCE IN COMMUNITIES AND HOSPITALS (ARCH) STUDY
D1P37	Ryan Musumba Awori	Elakistos Biosciences	Kenya	The genome of a steinernematid-associated Pseudomonas piscis bacterium encodes the biosynthesis of insect toxins
D1P38	Clement Shiluli Likhovole	Maseno University	Kenya	Identification of Multi-repeat Sequences using Genome Mining Approaches for Developing Highly Sensitive Molecular Diagnostic Assay for the Detection of Chlamydia trachomatis
D1P39	Bonphace Okoth	African Population and Health Research Center	Kenya	CULTURE-BASED MICROBIOLOGICAL DETECTION OF MAJOR ENTERIC BACTERIAL PATHOGENS IN HOUSEHOLD SOIL, HAND RINSE, AND INFANT TOY SAMPLES IN LOW-AND MIDDLE-INCOME NEIGHBORHOODS OF NAIROBI, KENYA
D1P40	Victor Ngozi Enwemiwe	Delta State University, Abraka	Nigeria	UNDERSTANDING THE TRANSMISSION RISK INDICES OF MALARIA VECTORS IN UGHELLI NORTH LGA, DELTA STATE, NIGERIA USING MOLECULAR SCREENING
D1P41	Benyl Muyoma Ondeto	UNIVERSITY OF NAIROBI	KENYA	PATTERNS OF ASYMPTOMATIC MALARIA INFECTIONS IN THREE SITES OF WESTERN KENYA: A PROSPECTIVE COHORT STUDY
D1P42	James Munyao Kingoo	Technical University of Kenya	Kenya	HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) SUBTYPE DIVERSITY IN BUSIA, WESTERN KENYA
D1P43	Eunice Maingi	Jomo Kenyatta University of Agriculture and Technology	Kenya	PHENOTYPIC AND GENOTYPIC CHARACTERIZATION OF EXTENDED SPECTRUM BETA LACTAMASES BACTERIAL PRODUCERS CAUSING URINARY TRACT INFECTIONS AMONG EXPECTANT WOMEN ATTENDING ANTENATAL CLINIC AT RUIRU SUB COUNTY HOSPITAL, KENYA
D1P44	Sebastian Dibondo Musundi	Mount Kenya University	Kenya	In-silico identification of conserved cross-species b-cell linear epitopes in human malaria: A subtractive proteomics and immuno-informatics approach
D1P45	Samuel W Chenge	Mount Kenya University/JKUAT	Kenya	CHARACTERIZATION OF FETAL VERSUS MATERNAL INNATE IMMUNE RESPONSES TO PLACENTAL MALARIA
D1P46	Miriam Jemutai	kenya Agriculture and livestock Research Organization	KENYA	GLOSSINA PALLIDIPES AND GLOSSINA MORSITANS MORSITANS SUSCEPTIBILITY AND TRANSMISSIBILITY COMPETENCE OF AN ANOMALOUS TRYPANOSOMA BRUCEI RHODESIENSE ISOLATED FROM BUSIA KENYA
D1P47	Sharley A	Maseno University	Kisumu	PfHRP2/3-mRDT positivity in complicated and uncomplicated malaria cases in western Kenya
D1P48	Peter Abuom	Jomo kenyatta university of agriculture and technology	Kenya	PREVALENCE AND ANTIMICROBIAL SUSCEPTIBILITY PROFILES, OF CAMPYLOBACTER SPECIES ISOLATED FROM DIARRHEIC CHILDREN UNDER FIVE YEARS IN NAIROBI COUNTY
D1P49	Cavin Mgawe	Jomo Kenyatta University of Agriculture and Technology	Kenya	Multiple binding sites for LAMP primers across P. falciparum genome improve detection of the parasite from whole blood and saliva
D1P50	Musa Bola Busari	Federal University of Technology Minna, Nigeria	Nigeria	AMELIORATIVE EFFECTS OF ETHYLACETATE FRACTION OF SENNA OCCIDENTALIS ROOT EXTRACT ON LIVER AND KIDNEY DAMAGE INDICES ON COMBINED CADMIUM AND LEAD CHLORIDE-INDUCED TOXICITY IN WISTAR RATS
D1P51	Tekiyat Irewole Abdullahi	Federal University of Technology Minna, Niger State	Nigeria	EFFECT OF SPROUTING ON THE ANTIOXIDANTS AND SELECTED B VITAMINS OF PURPLE FLESHED SWEET POTATO FLOUR.
D1P52	Josephat Kipsang Bungei	International Center of Excellence for Malaria Research	Kenya	GENETIC VARIATIONS OF GAMETOCYTE DEVELOPMENT 1 AND THEIR EFFECTS ON THE PREDICTED PROTEIN STRUCTURE IN PLASMODIUM FALCIPARUM ISOLATES FROM THE NORTH RIFT REGION, KENYA
D1P53	Mike Onyewehehi Ojemaye	University of Fort Hare	South Africa	Crataegus ambigua plant parts mediation of copper oxide nanoparticles and their effect against bacterial strains, free radical scave
D1P54	James Murimi Wachira	UNIVERSITY OF EMBU	Kenya	COMMUNITY STRUCTURE OF NITRIFYING AND DENITRIFYING BACTERIA FROM EFFLUENTS DISCHARGED INTO LAKE VICTORIA, KENYA
D1P55	Melvin Mbalitsi	Mount Kenya University	Kenya	ASSESSMENT OF THE PERFORMANCE OF MALARIA DIAGNOSTIC TOOLS IN DIAGNOSING MALARIA IN PREGNANCY AND PLACENTAL MALARIA
D1P56	Daglus Ameyo	Jomo Kenyatta University of Agriculture and Technology/KEMRI	KENYA	EVALUATION OF BACTERIAL PATHOGENS FROM SELECTED DIABETIC FOOT ULCERS PATIENTS AT THIKA LEVEL 5 HOSPITAL, KIAMBU COUNTY, KENYA.
D1P57	Fred Owino	Mount Kenya University	Kenya	CHARACTERISATION OF MATERNAL MACROPHAGE RESPONSES TO PLACENTAL MALARIA
D1P58	Samuel Ng'ang'a	Mount Kenya University	Kenya	PRESENCE OF SARS-COV-2 RNA IN WASTEWATER AND CORRELATION WITH REPORTED COVID-19 PREVALENCE IN THE THIKA SUB-COUNTY
D1P59	Douglas K. Ng'ang'a	Gifu University	Japan	Energetics of Active Buckling of Microtubules Driven by Kinesin Motors

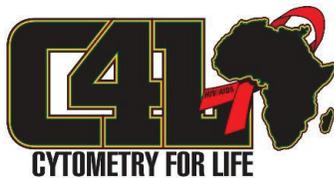
## Day 2 posters (Friday Nov 3rd)

Poster #	Name	Institution	Country	Abstract Title
D2P01	Collins Kipkorir Kebenei	Centre of Microbiology Research, Kenya Medical Research Institute	Kenya	ENVIRONMENTAL CARRIAGE AND SEASONAL FLUCTUATIONS OF NON-TYPHOIDAL SALMONELLA IN AN ENDEMIC INFORMAL SETTLEMENT IN NAIROBI, KENYA
D2P02	Esther Akiso Omuseni	Maseno University	Kenya	A MOLECULAR APPROACH IN DETERMINATION OF THE ASSOCIATION BETWEEN GIARDIA ASSEMBLAGES AND DIARRHEA IN CHILDREN BELOW 5 YEARS IN SIAYA COUNTY, KENYA.
D2P03	Milka Wambui Waitera	Chiba University	Japan	Quantification of volume fractions of nucleated red blood cells for detection of <i>P. falciparum</i> infection by electrical impedance spectroscopy (EIS)
D2P04	Noutin Fernand Michodigni	Université Nazi Boni	Burkina Faso	IMPORTANCE OF PHAGE COCKTAIL FORMULATION AND ROUTE OF PHAGE ADMINISTRATION FOR BIOCONTROL OF MULTIDRUG RESISTANT BACTERIAL STRAIN
D2P05	Samuel Ogola	Jomo Kenyatta University of Agriculture and Technology	Kenya	DETERMINATION OF HEMOGLOBIN LEVELS AMONG PATIENTS TAKING ANTITUBERCULOSIS DRUGS DURING THE INTENSIVE PHASE PERIOD
D2P06	Rotimi Abisoye Larayetan	Kogi State University, Anyigba, Kogi State, Nigeria	Nigeria	Phyto-synthesis of Silver Nanoparticles with ( <i>Vernonia amygdalina</i> ) Aqueous Extract and Its Effects on Testosterone-Induced Benign Prostatic Hyperplasia (BPH) in Wistar Rat
D2P07	Patrick Maina Wakaba	Mount Kenya University	Kenya	MOLECULAR AND PHENOTYPIC CHARACTERIZATION OF CARBAPENEM-RESISTANT GRAM-NEGATIVE BACTERIA ISOLATED FROM THIKA LEVEL 5 HOSPITAL
D2P08	Paulicarp Odhiambo Ogweno	Jomo Kenyatta University of Agriculture and Technology	Kenya	ANTIMICROBIAL ACTION OF <i>SAMBACUS NIGRA</i> , <i>SYMPHYTUM OFFICINALE</i> , <i>URTICA DIOICA</i> AND <i>MENTHA PULEGIUM</i> PLANT COMPOUNDS AGAINST ANTIBIOTIC RESISTANT <i>STREPTOCOCCUS PNEUMONIAE</i>
D2P09	Ogunayo Selimot Adedeji	Federal University of Technology Minna, Niger State, Nigeria	Nigeria	CHARACTERIZATION OF A CYCLODEXTRIN GLUCANOTRANSFERASE AND ITS APPLICATION IN BREAD MAKING
D2P10	Charity Ndidi Obum-Nnadi	University Of Abuja	Nigeria	PREVALENCE AND EFFECT OF <i>CHLAMYDIA TRACHOMATIS</i> IN KOBİ VILLAGE, GUZAPE, ABUJA NIGERIA
D2P11	Adewoyin Martin Ogunmolasuyi	Federal University of Technology Akure	Nigeria	PAPER MICROFLUIDIC TECHNOLOGY FOR RAPID DETECTION OF MALARIA USING APTAMER-AuNPs NANOCONJUGATE IN LIGAND EXCHANGE ASSAY
D2P12	Stephen Ademola Soyemi	University College Hospital	Nigeria	HEPATITIS B SURFACE ANTIGENAEMIA AND THE RISK OF TRANSMISSION AMONG APPARENTLY HEALTHY INDIVIDUALS IN IBADAN, SOUTHWEST NIGERIA
D2P13	Oluwaseyi Sedowhe Ashaka	Caleb University	Nigeria	PRELAENCE OF HEPATITIS B VIRUS INFECTION AMONG PEOPLE LIVING WITH HIV ATTENDING A TERTIARY HEALTH FACILITY IN LAGOS, NIGERIA
D2P14	Wilfred Ouma Otambo	Maseno University	Kenya	Influence of landscape heterogeneity on entomological and parasitological indices of malaria in Western Kenya
D2P15	Clayton Salano Jisuvei	University of Nairobi	Kenya	Association between vaginal washing and group B streptococcus colonization among Kenyan women seeking pregnancy
D2P16	Grace Mumo Kitoti	Technical University Of Mombasa	Kenya	FACTORS INFLUENCING MALARIA PREVALENCE AMONG PREGNANT WOMEN IN MSAMBWENI KWALE COUNTY
D2P17	Cecilia Adwoa Biaa Yankey	Noguchi Memorial Institute for Medical Research	Ghana	ASSESSING THE EFFECTIVENESS OF MARINE PLASMA PREPARATIONS ON <i>P. FALCIPARUM</i> GROWTH IN VITRO
D2P18	Lawrence O. Alaro	Kenyatta University	Kenya	GENETIC DIVERSITY OF <i>FUSARIUM</i> SPECIES INFECTING MAIZE GROWN IN NAKURU COUNTY, KENYA
D2P19	Christine Sharon Amondi	African Population and Health Research Centre	Kenya	ASSESSING ENTERIC PATHOGEN DIVERSITY IN PUBLIC SOIL AND SURFACE WATER SAMPLES IN LOW AND MIDDLE-INCOME AREAS IN NAIROBI, KENYA
D2P20	Dennis Mutua Mbuta	Jomo Kenyatta University of Agriculture and Technology (JKUAT)	Kenya	UNRAVELLING THE POPULATION DYNAMICS OF BEDBUG SPECIES IN EAST AND WEST AFRICA
D2P21	Lydia Chepkemai Siele	Jomo Kenyatta University of agriculture and Technology(JKUAT)	Kenya	EFFECTS OF MICROSPORIDIA MB INFECTION ON BEHAVIOUR AND PHYSIOLOGY OF <i>ANOPHELES ARABIENSIS</i> IN AHERO, KENYA.
D2P22	Isaac Obonyo Okello	Jomo Kenyatta University of Agriculture and Technology	Kenya	CULTURABLE FUNGI FROM EQUATORIAL GLACIERS; LEWIS GLACIER MT. KENYA
D2P23	Kipkorir William Limo	Egerton University	Kenya	MOUSE EXPERIMENTS DEMONSTRATE DIFFERENTIAL PATHOGENICITY AND VIRULENCE OF <i>Trypanosoma brucei rhodesiense</i> STRAINS
D2P24	Esmael Besufikad	Addis Ababa University	Ethiopia	Expression of matrix metalloproteinases in Ethiopian breast cancer patients: MMP-11 as a potential prognostic biomarker
D2P25	Marygorett Mbeneka Musyoka	National Public Health Laboratories	KENYA	ASSESSMENT OF CD4+ T CELL COUNTS IN HIV-1 AND MALARIA CO-INFECTED PATIENTS IN KOMBWEA, WESTERN KENYA
D2P26	Harriet Oboge	University of Nairobi	Kenya	IMMUNOGENICITY, EFFICACY, AND SAFETY OF TLR AGONISTS AS THERAPEUTICS AGENTS AND ADJUVANTS TARGETING INFECTIOUS DISEASES IN ANIMALS: A SYSTEMATIC REVIEW
D2P27	Tawakaltu AbdulRasheed-Adeleke	Federal University of Technology Minna, Niger State, Nigeria	Nigeria	THERAPEUTIC EVALUATION OF <i>Terminalia macroptera</i> (GUILL. & PERR.) STEM BARK EXTRACT IN EXPERIMENTAL AVIAN COCCIDIOSIS
D2P28	Jane Ngure	Mount Kenya University	Kenya	ASSESSMENT OF HEALTH WORKERS' EXPERIENCE ON THE USE OF ANTIGEN RAPID DIAGNOSTIC TEST DIAGNOSTIC TEST KITS (AG-RDT) FOR COVID-19 DISEASE
D2P29	Kelvin Malimo Nyongesa	Kenya Agricultural and Livestock Research Organization	Kenya	MEDICAL MAGGOT THERAPY: THE BIO-THERAPEUTIC METHOD FOR HEALING CHRONIC WOUNDS IN KENYA
D2P30	Bernard Oduor Otieno	International Livestock Research Institute	Kenya	TRANSFECTION OF THE APICOMPLEXAN PARASITE <i>THEILERIA PARVA</i> SPOROZOITES

**Day 2 posters (Fri Nov 3rd)--CONTINUED**

D2P31	Haftay Abraha Tadesse	Mekelle University, College of Veterinary Sciences	China	Isolation, characterization and antimicrobial resistance patterns of salmonella species from raw cow milk and fruit juice in Mekelle, Northern Ethiopia
D2P32	Jude Ngozi Efiokwu	Delta State Polytechnic, Ovwashi-Uku	Nigeria	PHYLOGENETIC RELATIONSHIP AMONG AND WITHIN DIFFERENT POPULATION OF TILAPIA ( <i>Oreochromis niloticus</i> )
D2P33	Evans Raballa	Masinde Muliro University of Science and Technology	Kenya	INTERFERON-GAMMA PROMOTER VARIANTS IMPACT ON LONGITUDINAL RISK OF MALARIA IN A HOLO-ENDEMIC TRANSMISSION REGION FOR PLASMODIUM FALCIPARUM
D2P34	Mark Makau	Centre for Infectious Diseases, Mount Kenya University	Kenya	MALARIA PARASITEMIA LEVELS AND CLEARANCE RATE IN BUSIA COUNTY, KENYA
D2P35	Edith Ijeego Mbah	Madonna University	Nigeria	METAGENOMIC INSIGHTS INTO THE BACTERIAL COMMUNITY STRUCTURE AND ABUNDANCE OF ANTIBIOTIC RESISTANT GENES ALONG THE EPIE CREEK IN YENAGOA, NIGERIA
D2P36	Olanrewaju Sanjo ADEYEMI	Veritas University Abuja	Nigeria	Evaluating The Effect of D-galactose I'm Modelling Ageing and the Potential of <i>T.foenum</i> (fenugreek) seeds in ameliorating ageing I'm Rats
D2P37	Akeza Awealom Asgedom	Mekelle University	Ethiopia	Unimproved water and sanitation contributes to childhood diarrhoea during the war in Tigray, Ethiopia: A community based assessment
D2P38	Iyabo Adepeju Simon-Oke	THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE	Nigeria	Prevalence of Malaria and Hepatitis B Co-infection among patients visiting Hospitals in Southwest, Nigeria.
D2P39	Peter Anyigor Edeh	Nnamdi Azikiwe University, Awka	Nigeria	Assessment of <i>Auricularia auricula-judae</i> 's Bioactive Constituents and the Antimicrobial Activity of its Protein Extract against <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i>
D2P40	Olufunto Omodele Adeleye	University of Ibadan	Nigeria	STRUCTURAL AND FUNCTIONAL HIPPOCAMPAL ALTERATIONS FOLLOWING CHRONIC ADMINISTRATION OF ALCOHOL AND A COCKTAIL OF CAFFEINE AND ACETYSALICYLIC ACID IN WISTAR RATS
D2P41	Virginia Muriu	MOUNT KENYA UNIVERSITY	Kenya	ASSESSMENT OF HEALTH WORKERS EXPERIENCE ON THE USE OF ANTIGEN RAPID DIAGNOSTIC TEST DIAGNOSTIC TEST KITS (AG-RDT) FOR COVID-19 DISEASE.
D2P42	Christy Chinyere Fredrick	University of Abuja	Nigeria	ANALYSIS OF HUMAN PAPILOMA VIRUS (HPV) IN CERVICAL LESION/CERVICAL CANCER USING P16 BY IMMUNOHISTOCHEMICAL METHOD
D2P43	Dorcas Olubunmi Aboderin	Centre for Human and Zoonotic Virology	Nigeria	Molecular surveillance of Astrovirus in environmental water samples in
D2P44	Haftay AbrahaTadeese	Mekelle University, College of Veterinary Sciences	Ethiopia	Prevalence, Antimicrobial Susceptibility Pattern and associated risk factors for salmonella species and escherichia coli from raw meat at butchery houses in Mekelle, Tigray, Ethiopia
D2P45	Edgar sungwacha	Edgar sungwacha	Kenya	ANTIMICROBIAL SUSCEPTIBILITY PATTERNS PROFILES AND DETERMINATION OF EXTENDED SPECTRUM BETA-LACTAMASES GENES ASSOCIATED WITHIN SELECTED URINARY TRACT INFECTION ASSOCIATED GRAM-NEGATIVE BACTERIA FROM PATIENTS PRESENTING AT NYUMBANI DIAGNOSTIC LABORATORY, NAIROBI-KENYA
D2P46	Harriet Natabona Mukhongo	Jomo Kenyatta University of Agriculture and Technology	Kenya	Assessing the use of pre-prints in covid-19 Immunology among selected researchers in Kenya
D2P47	Adaugo Gift Ibeh	Alex Ekwueme Federal University ndufu alike-ikwo Abakaliki Ebonyi state, Nigeria	Nigeria	GENETIC VARIATIONS AND RELATEDNESS AT DNA LEVEL IN THREE VARIETIES OF CAPSICUM CHINENSE USING ISSR MAKER.
D2P48	Trizah Koyi Milugo	Technical University of Kenya	Kenya	UNDERSTANDING THE ROLE OF MEDICINAL PLANTS IN MANAGEMENT OF COVID-19
D2P49	Kidanu Gebremariam Meles	Mekelle Mniversity	Ethiopia	Why Neonates Died in Health Facilities in the Tigray Region, Ethiopia, 2021-2023
D2P50	Olushola John Alabi	Federal University of Technology, Minna, Nigeria	Nigeria	EFFECT OF FEEDING NANO SELENIUM SUPPLEMENTED DIETS ON GROWTH AND IMMUNOLOGICAL PERFORMANCE OF BROILER CHICKENS
D2P51	Leween Chepngetich	Jomo kenyatta university of agriculture and technology	Kenya	EFFECTIVE INVENTORY MANAGEMENT AND STOCK-OUTS OF ESSENTIAL DRUGS CASE STUDY JKUAT HOSPITAL AND CHEPKEMEL
D2P52	Elizabeth Kongolo	Kenya Medical Training College	Kenya	PREVALENCE OF GIARDIA LAMBLIA AMONG HIV PATIENTS ATTENDING KAJIADO COUNTY REFERRAL HOSPITAL
D2P53	Nicholas Musau Kioko	Jomo Kenyatta University of Agriculture and Technology	Nairobi	AMINO ACID COMPOSITION AND FUNCTIONAL PROPERTIES OF OKRA ( <i>ABELMOSCHUS ESCULENTUS L.</i> ) AND JUTE ( <i>CORCHORUS OLITORIUS</i> ) PROTEIN ISOLATES
D2P54	Michael Okoth Ongoro	Maseno University	Kenya	PREVALENCE OF HELICOBACTER PYLORI INFECTION IN KISUMU COUNTY GENERAL HOSPITAL AMONG THE PATIENTS AGED BELOW 15 YEARS
D2P55	Daniel Dana Medebo	Jimma University	Ethiopia	EVALUATION OF SEROLOGICAL DIAGNOSTIC TOOLS TO ASSESS THE IMPACT OF A THREE YEARS SCHOOL-BASED DEWORMING PROGRAM SOIL TRANSMITTED HELMINTH INFECTION IN JIMMA, ETHIOPIA
D2P56	Ifeanyi Famous Ossamulu	FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA	Nigeria	ANTIMICROBIAL POTENTIAL OF EDIBLE CHITOSAN-STARCH BASED COMPOSITE FILM AGAINST ISOLATED MICROORGANISMS FROM SPOILT EGGPLANT AND TOMATO FRUITS

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