



**NIGERIAN INSTITUTE
OF MEDICAL RESEARCH**

7-9 NOV. 2022

8:00AM-5:00PM DAILY



International
Conference on
Health Advances,
Innovation & Research

an international gathering of
BIOMEDICAL PROFESSIONALS

Conference Programme



The Main Auditorium
Nigerian Institute of Medical Research,
6 Edmund Crescent, Off Murtala Mohammed Way, Yaba, Lagos.

LAGOS, NIGERIA
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||| A GREATER AFRICA NEEDS A GREATER NIGERIA |||

NIGERIAN INSTITUTE OF MEDICAL RESEARCH

6 Edmund Crescent, off Muritala Muhammed Way, Yaba Lagos

<https://nimr.gov.ng/about-ichair>

ICHAIR 2022

The International Conference on Health Advances, Innovation and Research

TRACKS

1. Basic Sciences
2. Clinical Sciences
3. Public Health
4. One Health
5. Biomedical Innovations

Featuring:

10th Distinguished Lecture Series

“ Exploring Biochemistry as the Anatomy of Life Sciences
for Solving Health Challenges and Building Human Capacity:
My Odyessy”

Dr. Bamidele Abiodun Iwalokun

(Bsc, MSc, E-Tech, PhD, IFBA, FRSPH)

Director Central Research Laboratory/Deputy Director of Research

Date: Monday 7th – Wednesday, 9th November 2022

Venue: Main Auditorium, Nigerian Institute of Medical Research,
6 Edmund Crescent, off Muritala Muhammed Way, Yaba Lagos

Host:

Prof. Babatunde Lawal Salako, FAS

Director -General/CEO

Nigerian Institute of Medical Research

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Viral Haemorrhagic Fever Research Group,
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ICHAIR 2022

The International Conference on Health Advances, Innovation and Research

Featuring:

Skills-Building Workshops

Keynote address

Symposium on Repositioning the health sector to the health industry

Plenary session on the health industry in the shadow of COVID-19

Oral Abstracts presentations

Exhibitions by prominent life science companies

Networking and continual education session via special SPiCE ECHO session

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1. Basic Sciences
2. Clinical Sciences
3. Public Health
4. One Health

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Dr. T. Y. Raheem	Research Fellow 1 / Coordinator (MB&BT)

National Anthem

Arise, o compatriots,
Nigeria's call obey
To serve our Fatherland
With love and strength and faith,
The Labour of our Heroes past
Shall never be in vain,
To serve with heart and might
One Nation bound in freedom,
peace and unity.

O God of creation
Direct our noble cause
Guide our Leaders right
Help the youth the truth to know
in love and honesty to grow
And living Just and true
Great lofty heights attain
To build the Nation where Peace
And justice reign.

Pledge
I pledge to Nigeria my country
To be faithful, loyal and honest
To serve Nigeria with all my strength
To defend her unity, and uphold
her honour and glory
So help me God.



His Excellency
Muhammadu Buhari, GCFR
President, Commander in Chief of the Armed Forces
Federal Republic of Nigeria



Dr. E. Osagie Ehanire, MD, FWACS
Honourable Minister of Health
Federal Ministry of Health



Hon. Ekunmankama Joseph Nkama
Honourable Minister of State for Health
Federal Ministry of Health

Chairman of the Ocassion



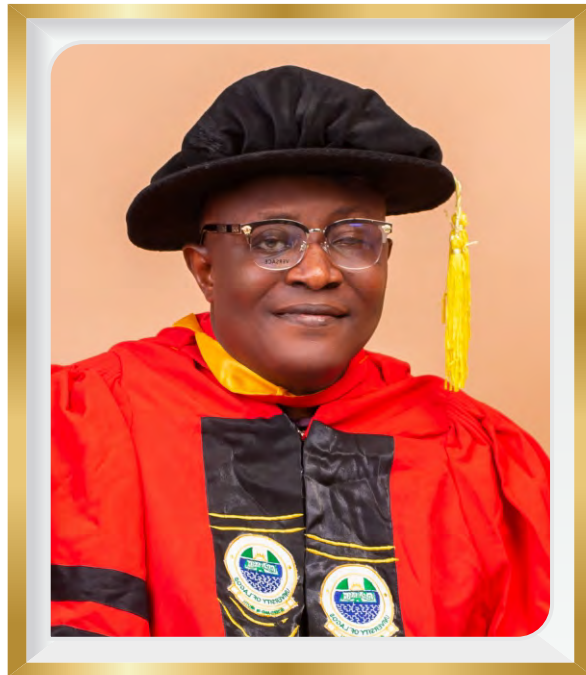
Prof. Issac Adewole, FAS, DSC (Hons)
Former Honourable Minister of Health

Keynote Speaker



Prof. Alani Sulaimon Akanmu, MBBS, MWCP, MD, FMCPath, FAMEDS
Professor of Haematology,
Chair, National Task Team on ART (NTTA)

Distinguished Lecture



Dr. Bamidele Abiodun Iwalokun, BSc, MSc, E-Tech, PhD, IFBA, FRSPH
Professor of Biochemistry and Biotechnology,
Deputy-Director of Research and Director, Central Research Facility,
Nigerian Institute of Medical Research

Chief Host



Prof. Babatunde Lawal Salako, FAS
Director-General/Chief Executive Officer
Nigerian Institute of Medical Research

Nigerian Institute of Medical Research

The Nigerian Institute of Medical Research (NIMR) is the foremost and oldest organization for research in Nigeria. It transformed from its modest beginning in 1920 as the base for the Yellow Fever Commission for West Africa through its becoming the seat of West African Council of Health to become the Nigerian Council of Health at independence in 1960. NIMR as it is now called was created by the decree 1977 under the National Science and Technology Development Agency Decree 1977

Vision

To be an institution of excellence in basic, applied and operational research for the promotion of national health and development.

Mission

To conduct research into diseases of public health importance in Nigeria and develop structures for the dissemination of research findings while providing the enabling environment and facilities for health research and training in cooperation with the federal and state ministries of health and in collaboration with universities, allied institutions and organized private sector nationally and internationally.

Mandate

The mandate of the Institute under the enabling Act of 1977, stipulates that it shall conduct research into health problems in the country essentially in the following areas:

- Communicable diseases of public health importance in the country.
- Non-communicable diseases prevalent in the country.
- Basic, applied and operational research for the prevention and control of diseases endemic in the country in cooperation with the Federal and State Ministries of Health.
- Develop human and infrastructural capacities for clinical and biomedical research in collaboration with Medical Schools, Universities and other Health-related Institutions, in and outside Nigeria.
- Disseminate the results of health research in the country through training courses, scientific publications, conferences, workshops and other communication channels to the Federal and States Ministries of Health, relevant stakeholders in the Public and Private sectors as well as the general public.

Core values

There are core values for the institute binding on every employee to live up to. These include:

- Honesty, Integrity
- Leadership
- Excellence
- Respect, Fairness, dignity
- Teamwork, responsibility
- Relevance, Innovation
- Hard work
- Fair Reward and Recognition
- Accountability and Transparency
- Communication – internal and external
- Equity



Welcome address by the Director General
Nigerian Institute of Medical Research, Yaba-Lagos
Professor Babatunde Lawal Salako

Good morning, Distinguished ladies and gentlemen; invited guests and our online audience joining us from around the world. Welcome to the Nigerian Institute of Medical Research (NIMR) for yet another edition of the International Conference on Health Advances Innovation and Research (ICHAIR). It is worthy of note that this conference has been on since 2011 and was re-positioned last year to become a go-to-meeting for bio-medical professionals and stakeholders within this domain in Nigeria and beyond to reflect on innovations in research, and health and how these will impact health, especially in Nigeria. First, I appreciate all the invited keynote speakers and organisations for participating in this international event. I am happy to note that the quality and calibre of speakers this year are remarkable. I also want to thank all of you for connecting online this morning, and I trust you are looking forward to very stimulating discussions as much as I am.

This year marks the second time we are holding this annual event in a hybrid format. However, this year marks our expansion in reach, scope and content. Despite the advances, innovations and favourable public health outlook made in the containment of the COVID-19 pandemic in the past year, there have been other health concerns globally in the last few months; the monkeypox outbreak, Ebola virus disease in Uganda and high hospitalisations among paediatrics and elderly due to the flu season in the USA.

Despite these, I am optimistic about innovations made in the public health landscape and the economic gains brought to companies and countries at the forefront of these innovations during the COVID-19 pandemic. We can therefore look to the future with cautious optimism, with the progress made in vaccines, therapeutics, telemedicine/health and resource allocation.

As we come together in the next three days to discuss innovative advances, strategies and optimisation for public health benefits and policies, I would like to mention NIMR'S contributions briefly in this sphere within the past few years;

First, NIMR has made good progress in developing diagnostic kits that include COVID-19 rapid and molecular test kits, yellow fever test kits and recently, the monkeypox diagnostic kit. The development of diagnostics is an area of research that we confidently assure the country that Nigeria has arrived after our diligent staff picked up this critical laboratory and research skills working at the China CDC in Beijing. We remain eternally grateful to the Government and people of China for passing these research skills to us at the Nigerian Institute of Medical Research.

Second, we delivered on the promise to research fellows in the provision of state-of-the-art research facilities and equipment. I am glad that the Honorable Minister of State for Health was here for the past two weeks to commission these projects, including the Clinical Trial Centre, Emerging Viral Diseases

Laboratory and NIMR research and innovation development policy. We must continue to thank the Federal Government of Nigeria for the improved funding to the Institute. Much more for the COVID-19 intervention, which has hitherto changed the face of research in NIMR. We, however, request from the Federal Government specific funding for health research in Nigeria, primarily through the Basic Health Care Provision Fund, which is currently under review.

The third is the expansion of partnerships with the private sector to advance research through the NIMR Research Foundation. In this regard, MTN Foundation provided funding for procuring an oligosynthesizer machine for synthesising oligonucleotides and an essential requirement in genomics research that cuts across several basic medical and life science research. This equipment is underutilised as we expand the frontiers of genomic research in Nigeria and the West Africa sub-region. Soon, we will set up a business model to further advertise this research capacity's importance and presence in Nigeria.

Mr Chairman, distinguished participants, despite these innovations here in NIMR and the global space, there is still much to be done in the coming years and decades, particularly as we approach the sustainable development goals target by 2030. One key expectation before the end of this conference is to identify pockets of excellence in Nigeria, deliberate on how research innovations and outputs can enhance health and how these efficient products can be translated to commercial and social success by the health industry. These products will require the support of the Federal Government to initiate policies that can catalyse the market uptake of homegrown innovations. While we deliberate on it, we must not lose sight of the fundamental purpose of creating innovative health products. NIMR, in her research and innovation development policy, has provided clear guidance and priorities for individual scientists and organisations on empowering innovation, improving such, and incentives.

While we zoom in on the post-COVID-19 gains, there is still much to deliver on infectious and non-communicable diseases. Our research and innovation have contributed to improved diagnosis and care for HIV, tuberculosis, malaria, hemorrhagic fevers and others. However, we need to bring the full benefits of these innovations to Nigerian citizens that need them most. We are proud of these achievements thus far and look forward to partnering with all stakeholders to pool knowledge and resources to advance research and innovations. I welcome ideas on catalysing more efficient and effective innovations, cross-border partnerships and technology transfer.

Finally, Ladies and gentlemen, let me thank our sister agencies that have contributed in one way or another to the successes recorded by NIMR. Without them, some of these successes may have become difficult to attain. In no particular order, we appreciate the Nigerian Center for Disease Control (NCDC), National Food and Drug Administration Control (NAFDAC), National AIDS, Viral Hepatitis and STDs Control Programme (NASCP), National Primary Health Care Development Agency (NPHCDA), National Institute for Pharmaceutical Research (NIPRD), National Malaria Elimination Program (NMEP) and of course our principal, the Federal Ministry of Health (FMOH). To Mr Chairman, I thank you for your time and the opportunity of increased funding to NIMR when you were the Honorable Minister of Health for our great country. We appreciate you truly and significantly. We have indeed provided our newly built Bio-

banking facility for you to commission today to show our appreciation for your effort at advancing research in NIMR and, by extension, in Nigeria.

Distinguished participants, and our invited guests, thank you for your time and support in facilitating this event. Our Keynote speaker and other great speakers here today, we look forward to your fantastic insights into your field of endeavour in the next three days. I, therefore, welcome everyone to NIMR and Lagos State. I hope you will find time to explore the Institute's facilities and services as well as Lagos, Africa's cultural, financial and entertainment capital. Indeed, if you visited Lagos and did not pick up wisdom in the process, you are unlikely to be wise again.

Distinguished ladies and gentlemen, I thank you for listening.

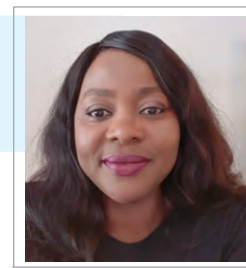


Prof. Babatunde Lawal Salako, FANA, FNAMed, FAS
Director General/CEO NIMR



Welcome address from the Conference Committee Chair and Co-Chair

Dr C.K. Onwuamah
Chair, COC



Dr N. Onyejebu
Co-Chair, COC

We welcome you to the International Conference on Health Advances, Innovation and Research (ICHAIR) 2022, hosted since 2011 by the Nigerian Institute of Medical Research (NIMR). At this year's conference, we decided to be all-inclusive, forgoing selecting a theme to welcome participation from any biomedical professional whose work schedule fits any of the abstract tracks.

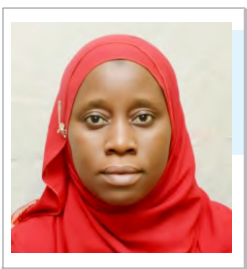
Subsequently, we will discuss three topical issues at three key sessions. First is the future of HIV/AIDS. Second is repositioning the health sector to the health industry: the challenges, policy gaps and potentials, and finally, the health industry in the shadow of COVID-19: focus on one health, programme integration and sustainability. Under the Networking and Continual Education track, the Nigerian SPiCE ECHO programme will be debuting at ICHAIR 2022, discussing a topical concern for health workers, i.e. Maintaining good mental health among healthcare workers. Also, debuting at ICHAIR 2022 is a Community Village, styled to bring to fore the social aspects of biomedical research and bridge the gap between the professionals and the public. Events at the Community village will be open free to the public and activities conducted in ways amenable to the layperson.

Globally, the health workforce was brought to the limelight and voted "Heroes" and "Men/Women of the year" due to their tremendous sacrifice and impact through the high points of the COVID-19 pandemic. Conversely, this has its toll on health workers, including the pressure of often impossible expectations from patients and their families. However, we have emerged stronger, and many have become convinced this industry can serve the people and also yield benefits for its professionals. Hence, the underlining notion, especially in Nigeria, of moving from just the health sector to the health industry! Hence the symposium will help realign both our policies and practices. On the programmatic level, integration and sustainability are key. It will be exciting to hear from critical stakeholders on how best to proceed. This year too, a directorate staff of the Institute will give an account of his stewardship, which promises to be very exciting.

The hybrid conference provides a unique platform for cross-disciplinary appreciation and consolidation of the gains during the pandemic, mainly through innovations in healthcare technologies and health systems. We hope the conference will facilitate the exchange of ideas, experiences, and discussion among the participants.

We thank our sponsors, speakers, presenters, partners, and participants for sharing their resources, expertise, enthusiasm, and time with us. We also appreciate the Director-General, NIMR management and staff for the enabling environment and resources required for the conference.

We welcome you all with great joy and look forward to a rewarding experience for everyone.



Welcome address from the Scientific Sub-Committee Chair

Dr Adesola Z. Musa
Chair



Dr Abideen Salako
Co-Chair

Distinguished Participants,

On behalf of the Scientific Sub-Committee, I warmly welcome you to this year's International Conference on Health Advances, Innovation and Research (ICHAIR) 2022, hosted since 2011 by the Nigerian Institute of Medical Research (NIMR). This year's conference is encompassing with research findings focused on five different tracks. Several stimulating sessions have also been packaged to benefit colleagues from various backgrounds, to enhance knowledge and laboratory skills and also encourage networking.

The Conference tracks which includes; Basic Sciences, Clinical Sciences, Public Health, One health and Biomedical Innovation, have been carefully selected to cover most of the emerging health challenges and research priorities of the Country.

In addition, the pre-conference workshops have been designed in form of skill building sessions to facilitate research by building the capacity of students, researchers, and the academia. There will be four pre-conference activities that will take place concurrently. These are:

- 1. Genotyping with TaqMan assays**
- 2. Sanger Sequencing Workflow demonstration with HIVDR assay**
- 3. National secondary data sources for the Nigerian HIV/AIDS program**
- 4. Peer Naija round table**

The first two skill building sessions have been packaged to increase laboratory skills of our scientists, the second to identify and access data for secondary data analysis on HIV/AIDS program and the last is looking at contemporary issues and advantages of using mHealth interventions to address HIV Care Continuum Needs for Youth Living with HIV. All these are essential skills necessary for the next generation of scientists and which they wouldn't want to miss.

Finally, I want to appreciate all those who submitted their abstracts for presentation at the conference. We appreciate your time in putting them together and choosing this platform for dissemination of your research findings. More importantly, we received abstracts from both within and outside NIMR in a good mix. We are reaching our goal of making this conference a national conference with quality presentations from all over Nigeria. Like last year, we were able to offer free conference registration, accommodation and transportation to students across the country through the support of the Aliko Dangote Foundation and APIN Public Health Initiatives, we are immensely grateful to you.

We thank all our abstract reviewers for making out time to review the abstracts, especially those who took the time to provide feedback to the authors for improvement. We also thank our rapporteurs, invited expert speakers, and session chairs. The story of this conference will not be complete without you, many of whom work behind the scenes.

We thank you all for being here with us. We value your presence at this conference. Enjoy the conference!

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Conference Programme at a Glance

Monday, 07 Nov 2022	Tuesday, 08 November 2022	Wednesday, 09 November 2022
Skills-Building Workshops 08:30 – 06:00 pm 1. Genotyping with TaqMan assays 2. Sanger Sequencing Workflow demonstration with HIVDR assay 3. National secondary data sources for the Nigerian HIV/AIDS program 4. Peer Naija round Table	Oral Abstracts Session 01 (3A) NIMR YOUNG SCIENTIST 08:00 – 08:50 am	Satellite Sessions 08:00 – 08:50 am
	Concurrent Oral Abstracts Session 02/03 (10A) 08:50 – 09:50 am Chairs: Prof OAT. Ebuehi [02] / Prof Osuntoki [03] Co-Chair: Dr OB Salu [02] / Prof. Taiwo Idowu [03]	Concurrent Oral Abstract Sessions 04/05 (12A) 08:30 – 09:50 am Chairs: Prof. NN Odunukwe [04] / Prof. S. Omilabu [05] Co-Chairs: Dr. Funtó Kalejaiye [04] / Prof. Ladokun [05]
	OPENING CEREMONY AND KEYNOTE SPEECH 10:00 – 12:00 noon Host: Prof Babatunde Lawal Salako, FAS Director-General/CEO Chairman of the Conference Professor I.F.A. Adewole, FAS, DSC (HONS) Former Minister of Health University of Ibadan Keynote Speaker: Professor Alani Sulaimon Akanmu, Professor of Haematology, & Chair, National Task Team on ART (NTTA)	PLENARY SESSION 10:00 – 12:00 noon "The health industry in the shadow of COVID-19: focus on one health, programme integration and sustainability." Chairs: Prof Aima Ahonkhai Dr Adenike Oluwo 1. How integrating health programmes can benefit the control of NTDs – Dr Akpan , Division for the Control and Elimination of NTDs, FMOH – 20 mins 2. Integrating health programmes can benefit the control of Malaria – Dr Uhomoibhi , NMEP – 20 mins 3. NCDC's needs in responding to diseases outbreaks effectively – Dr Adetifa , Nigeria Centre for Disease Control, Abuja – 20 mins 4. Integrating health programmes to enhance effectiveness and sustainability – Dr Boyd , US Centre for Disease Control and Prevention, Nigeria – 20 mins
	EXHIBITIONS AND NIMR TOURS 12:00 – 01:00 pm	EXHIBITIONS AND NIMR TOURS 12:00 – 01:00 pm
	LUNCH BREAK 01:00 – 01:50 pm	LUNCH BREAK 01:00 – 01:50 pm
	SYMPOSIUM 02:00 – 04:00 pm "Repositioning the health sector to the health industry: the challenges, policy gaps and potentials". Chairs: Prof AS Akanmu Prof N. Odunukwe Speakers: 1. Viewpoint of a researcher and academician – Prof. S. Omilabu , UNILAG – 20 minutes 2. Viewpoint of an Intellectual Property Rights expert – Dr T. Moody , WIPO – 20 minutes 3. Viewpoint of the National agency overseeing food, diagnostics, and drugs – Dr. M. Eimunjeze , NAFDAC – 20 minutes 4. Viewpoint of a Private Foundation and sponsor of research – Mrs Zouera Youssoufou , Aliko Dangote Foundation – 20 minutes	Concurrent Oral Abstracts Session 06/07 (19) 02:00 – 03:20 pm Chairs: Prof. PGC Odeigah [06] / Prof. R.A Audu [07] Co-Chairs: Dr. Toun Mustapha [06] / Dr F. Nwaokorie [07] Networking and Continual Education Session Introduction to the National SPiCE ECHO Programme 03:30 – 4:00 pm Chair: Dr Jay Samuels Topic: Maintaining excellent mental health among healthcare workers Hosts: The Public Health Information, Surveillance Solutions, and Systems (PHIS3) project. Sponsored by the US CDC and, NASCP, Federal Ministry of Health, Nigeria
	10th Distinguished Lecture 04:00 – 05:00 pm by Dr Bamidele Abiodun Iwalokun Director, Central Research Laboratory & Deputy-Director (Research) Topic: "Exploring Biochemistry as the anatomy of life sciences for solving health challenges and building human capacity: My Odyssey" Chair: Prof Babatunde Lawal Salako, FAS Director-General/CEO, NIMR	Conference Closing Ceremony 04:00 – 05:30 pm Chair: Prof Babatunde Lawal Salako, FAS Featuring Presentation of Awards and Certificates: Student Conference Scholars 2022 Young Scientist Award Conference Sponsors and Endowments 2022-2023 NIMR Ambassadors of Research Award to the Distinguished Lecturer

**International Conference on Health Advances, Innovation and Research
(ICHAIR) 2022**

Skills-Building Workshop I

**Genotyping with TaqMan Assays (Real-Time PCR, QuantStudio 7 Flex)
07th November 2022**

Venue: New Board Room, NIMR

Facilitator: Dr James Ayorinde

Title: Genotyping with TaqMan Assays (Real-Time PCR, QuantStudio 7 Flex)

Programme

TIME	ACTIVITY
08:30 – 09:00	Arrivals and Introductions etc
09:00 – 09:30	Round table and pre-test
09:30 – 10:30	Introduction to qPCR and its applications
10:30 – 10:45	<i>Coffee/Tea break</i>
10:45 – 11:30	Genotyping Techniques
11:30 – 12:15	Taqman SNP Genotyping
12:15 – 12:30	Introduction to QuantStudio 7 Flex Real-Time PCR System
12:30 – 13:10	Setup and loading of Taqman SNP genotyping plate
13:10 – 14:10	<i>Lunch break</i>
14:10 – 15:40	Interpreting workshop run data
15:40 – 16:00	QnA session
16:00 – 16:30	Post-test and END of the training session



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improving patient diagnostics and therapies or increasing productivity in their laboratories, we are here to support them. Our global team of more than 90,000 colleagues delivers an unrivalled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services and Patheon. Providing you with quality solutions from sample collection, sample preparation, cold storage, assays and controls, qPCR instruments and consumables, sequencing solutions, reporting and analytics, plastics and consumables, personal protective equipment and other workflow equipment, at equitable prices through our Global Health Equity program, for more information, please visit www.thermofisher.com.

West Africa region contact: **Jumoke Olanipekun; +234 913882 0000**

Email: **Jumoke.olanipekun@thermofisher.com**.

International Conference on Health Advances, Innovation and Research (ICHAIR) 2022

Skills-Building Workshop II Sanger Sequencing Workflow demonstration with HIVDR assay 07th November 2022

Venue: Centre for Human Virology and Genomics Conference Room
Facilitator: Dr. M. Khashief Soeker
Title: Sanger Sequencing Workflow demonstration with HIVDR assay

Session Overview

Time	Activity
08:30 – 09:00	Arrivals and Introductions etc
09:00 – 09:45	Introduction to Kingfisher Sample prep and MagMax
09:45 – 10:30	Introduction to 3500 Genetic Analyser: Instrument Overview
10:30 – 10:45	Coffee/Tea break
10:45 – 12:45	HIV Drug resistance workflow - Amplification and Sequencing
12:45 – 13:45	Lunch break
13:45 – 14:15	HIV Drug resistance workflow - Amplification and Sequencing cont
14:15 – 15:45	Hyrax software demonstration and data analysis
15:45 – 16:15	QnA session and end training



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improving patient diagnostics and therapies or increasing productivity in their laboratories, we are here to support them. Our global team of more than 90,000 colleagues delivers an unrivalled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services and Patheon. Providing you with quality solutions from sample collection, sample preparation, cold storage, assays and controls, qPCR instruments and consumables, sequencing solutions, reporting and analytics, plastics and consumables, personal protective equipment and other workflow equipment, at equitable prices through our Global Health Equity program, for more information, please visit www.thermofisher.com.

West Africa region contact: **Jumoke Olanipekun; +234 913882 0000**

Email: **Jumoke.olanipekun@thermofisher.com**.

**International Conference on Health Advances, Innovation and Research
(ICHAIR) 2022**

Skills-Building Workshop III

**National secondary data sources for the Nigerian HIV/AIDS programme
07th November 2022**

Venue: Biomedical and Cancer Research Centre Room 1

Facilitator: PHIS3, (oolatoregun@phis3project.org.ng)

Title: National Secondary data sources for the Nigerian HIV/AIDS programme

Session overview

Time	Activity
10:00 – 10:15	Introduction to the National Data Repository
10:15 – 11:00	NDR Public Dashboard and NDR Analytics review
11:00 – 11:30	Nigeria HIV/AIDS Indicator and Impact Survey (NAIIS) Analytics Dataset (NADA)
11:30 – 12:00	NDR Analytics Database



The Public Health Information, Surveillance Solutions, and Systems (PHIS3) project is a US Centers for Disease Control and Prevention (CDC) funded project awarded to strengthen systems to improve HIV service delivery and other public health interventions through continuous quality improvement, monitoring and evaluation, Surveillance, Health Informatics and laboratory quality management in Nigeria.

International Conference on Health Advances, Innovation and Research (ICHAIR) 2022

Skills-Building Workshop IV

mHealth interventions to address HIV Care Continuum Needs for Youth Living with HIV
07th November 2022

Venue: Biomedical and Cancer Research Centre Room 2

Co-Chairs: Drs. Fisher & Somefun

Title: mHealth interventions to address HIV Care Continuum Needs for Youth Living with HIV

Speaker	Topics
All	Introduction & Welcome
Dr. Aima Ahonkhai	PEERNaija: mHealth Delivered Social Incentives and Peer Support to Promote Medication Adherence for at NIMR (10-15min)
Dr. Ucheoma Nwaozuru	iTEST: Crowd Sourcing to identify mHealth solutions For HIV Testing (10-15 min)
ALL	Questions and Discussions I (10-15 min)
Dr. Nadia Dowshen	Optimizing Engagement in mHealth interventions (10-15 min)
Helen Audu	Collaborating with Youth to Tailor mHealth interventions (10-15 min)
Dr. Martin Were	Strengthening Health Systems with mHealth Interventions (10-15 min)
ALL	Questions and Discussion II (10-15 min)
Ifeoma Idigbe	Qualitative Methods and User Centered Design: (10-15 min)
Dr. Zaidat Musa	Statistical Considerations for Measuring Impact of mHealth Interventions: (10-15 min)
Dr Olaposi Olatoregun	Implementing mHealth interventions from a public health perspective (10-15 min)
ALL	Questions and Discussion III (10-15 min)
Facilitators	Concluding Comments

Tuesday, 08th November 2022

Oral Abstract Session 01: 2022 Director-General's Young Scientist Contest
Venue: Main Auditorium, NIMR
Time: 08:00 – 08:50 am

Chair: **Prof Babatunde Lawal Salako**
Director-General/CEO, NIMR

Assessors: **Prof Bolajoko Aina**
University of Lagos, Nigeria

Prof Aima Ahonkhai
Vanderbilt University, U.S.A

Prof S. Ladokun
Lead City University, Ibadan, Nigeria

Dr Funto Kalejaiye
University of Lagos, Nigeria

Rapporteurs: Dr. Tosin Odubela and Mr. Ahmed Tajudeen

Presentations:
08:00 – 08:05 am Introduction by Scientific Sub-Committee

08:05 – 08:10 am: Lead Assessor's opening remarks

08:10 – 08:20 am **Abideen Salako:** Prevalence and Associated Risk Factors of Myocardial Ischaemia in Children Living with Sickle Cell Disease at a Tertiary Hospital in Lagos, Nigeria: A Comparative Cross-Sectional Study

08:20 – 08:30 am **Chioma Kunle-Ope:** Genetic diversity and drug resistance of Mycobacterium tuberculosis complex isolates circulating in Lagos, Nigeria

08:30 – 08:40 am **Olufemi Samuel Amoo:** Video Observed Therapy Device Improves Probability of Tuberculosis Therapy Adherence in Tuberculosis Patients

08:40 – 09:00 am Questions and Answers

09:00 – 09:05 am Announcements (Rapporteurs)

09:05 – 09:10 am Lead Assessor's and Chair's Closing remarks

Tuesday, 08th November 2022

Concurrent Oral Abstracts Session

Oral Abstract Session 02:

Venue: Main Auditorium, NIMR

Time: 08:50 – 09:50 am

Session Chairs: **Prof O.A.T Ebuehi**
University of Lagos, Nigeria

Dr O.S. Salu
University of Lagos, Nigeria

Rapporteurs: Dr. Jane Okwuzu and Ms. Toyin Awoderu

Presentations:

08:50 – 08:55 am Chairs' opening remarks

08:55 – 09:05 am **Olaoluwa Pheabian Akinwale:** Health Research Mentorship in Low and Middle-Income Countries (HERMES): A TDR global practical guide to enhance research mentorship

09:05 – 09:15 am **Vincent Duru:** Low frequency of non-falciparum malaria and PFCRT mutations in parasites circulating in Nnewi district, South-east Nigeria

09:15 – 09:25 am **Kordinum Alumona:** Assessment of mitochondrial DNA damage in HIV-positive teenagers in south-west Nigeria

09:25 – 09:35 am **Ifechukwu Stephanie Ezeilo:** Green-synthesised silver nanoparticles of *Moringa oleifera* leaf extract show antiparasitic activity in stored maize and peanuts

09:35 – 09:45 am **Opeoluwa Shodipe:** Bacteriological assessment of sliced vended watermelon in Ago-Iwoye metropolis

09:45 – 09:50 am Chairs' closing remarks

Tuesday, 08th November 2022

Concurrent Oral Abstracts Session

Oral Abstract Session 03:

Venue: New Board Room, NIMR

Time: 08:50 – 09:50 am

Session Chairs: **Prof A.A. Osuntoki**
University of Lagos, Nigeria

Prof T. Idowu
University of Lagos, Nigeria

Rapporteurs: Mr. Jacob Yisau and Ms. Susan Holdbrooke

Presentations:

08:50 – 08:55 am Chairs' opening remarks

08:55 – 09:05 am **Azuka Patrick Okwuraiwe:** Tracking the epidemiology of severe acute respiratory syndrome-Coronavirus-2 (SARS-CoV-2) in Lagos wastewater canals: Preliminary findings

09:05 – 09:15 am **Elizabeth Abodunrin:** Evaluation of Mutation Pattern in a Gene Associated with HbF Expression and Clinical Manifestation among Sick Cell Disease Patients in Ibadan, South-West, Nigeria

09:15 – 09:25 am **Folahanmi Akinsolu:** Community Assessment of School-Based Mass Drug Administration Program for Soil-Transmitted Helminths and Schistosomiasis in Nigeria

09:25 – 09:35 am **Ojopagogo Temiloluwa:** Socioeconomic risk factors for cervical oncogenic human papillomavirus (HPV) infection among Nigerians

09:35 – 09:45 am **Idigbe Ifeoma:** Transitioning from adolescence to adulthood: the lived experiences of female adolescents living with HIV in Lagos, Nigeria

09:45 – 09:50 am Chairs' closing remarks

Opening Ceremony Tuesday, 08th November 2022

Venue: Main Auditorium

Time: 10:00 am – 12:00 noon

Chair: **Prof I.F.A. Adewole**
Former Minister of Health, Nigeria

Rapporteurs: Dr. Olaide Kareem and Mr. A. Adeneye

Programme of Event

09:30 – 10:00 am	Arrival of guests
10:00 – 10:05 am	National Anthem
10:05 – 10:15 am	Introductions
10:15 – 10:20 am	The Chair's, Prof I.F.A. Adewole , Opening Remarks
10:20 – 10:25 am	Welcome address by the Chair, Central Organizing Committee
10:25 – 10:35 am	Address by the Director General/CEO, Professor B.L. Salako
10:35 – 10:45 am	Goodwill Messages (2 minutes each for five persons)
	Prof Abayomi
	Mr Fola Adeola
	Mrs Zouera Youssoufou
	Dr P. Okonkwo
	Mr Terrence Khoza (virtual)
10:45 – 11:25 am	"The Future of HIV/AIDS" A Keynote Address by Prof Alani Sulaimon AKANMU MB:BS, MWCP, MD, FMCPPath, FAMEDS., Professor of Haematology, and Chair, National Task Team on ART (NTTA)
11:30 – 11:35 am	Address by the Guest of Honour <i>(Declares Conference open)</i> .
11:35 – 11:45 am	NIMR COVID-19 Response activities (Short Video)
11:40 – 11:50 am	Virtual presentation by Conference Platinum Sponsors
11:50 – 11:55 am	Closing remarks by the Conference Chair, Prof I.F.A. Adewole <i>(Declares Conference open)</i> .
11:55 – 12:00 pm	Announcements, Vote of thanks, and National anthem
12:00 – 12:30 pm	Commissioning of the New Biorepository Building by the Conference Chair, Prof I.F.A. Adewole
12:00 – 01:50 pm	Exhibition Stands / NIMR Guided Tours / Community Village / Lunch Break

Mid-day Session
Tuesday, 08th November 2022
Exhibitions

Venue: Exhibition Stands, Main Laboratory Complex, NIMR

Date: 07 – 09th November 2022

Exhibitions

1. **Inqaba Biotec West Africa** is committed to providing various genomics and diagnostics products and services to our customers in Sub-Saharan Africa. Our core services include supply of laboratory products, DNA synthesis (primers and probes), molecular analysis, Sanger and Next Generation Sequencing, Bioinformatics solutions and laboratory instruments procurement, maintenance, and servicing.
Contact: Lukman Aroworamimo
Email: info@inqababiotec.ng **Website:** www.inqababiotec.ng
Tel: +234 805 882 7272
2. **Neophoenix Lifesciences Limited** specializes in the distribution of Lifesciences, Genomic and diagnostic products (instruments, reagents and consumables). Our services also includes the maintenance/ repair of such instruments and consultation for laboratory setup. We are dedicated to improving research and diagnostic services in Nigeria and Africa as a continent.
Email: contact@neophoenixlifesciences.com, sales@neophoenixlifesciences.com
Website: www.neophoenixlifesciences.com
3. **Synapse Technologies Limited** is currently the Authorized distributor for Agilent Technologies and BIOTEK Inc in Nigeria. Our mission is to become the #1 value-add chemical analysis & life science solution provider of choice in Nigeria by focusing on getting, keeping, and growing its customers by building positive long-term relationships.
Contact: Taiwo Elegbede
Email: taiwo.elegbede@synapsenigeria.com, info@synapsenigeria.com
Website: www.synapsetechnologies.com.ng
Tel: +234 802 310 0224
4. **FOWM Biotechnology Limited (FBL)** is a Life Science and Biotechnology solutions provider that focuses on developing and bringing to market novel biological ingredients and import substitutes for product applications improvement for Nutritional, Healthcare, Skincare and Chemical sectors through Research and Development. Started in 2015 as a company focused mainly on sales and delivery of selected Life Science chemicals and wares to businesses, educational institution and laboratories; today, the company owns and operates a BSL-2 laboratory facility certified by the Nigerian Institute of Science Laboratory Technology to handle simple to complex life science project.
Email: info@fowm-solution.com **Website:** www.fowm-solution.com
Tel: (+234) 1 4532512

5. **Biologix** (RC: 673500) is an indigenous biotechnology company that provides professional laboratory services to Nigeria's emerging biotech industry. We have a combined professional experience (over 17 years) spanning various fields including Molecular Biology, Genetics, Synthetic Biology and Bioinformatics. We have Biosafety Laboratory 2 (BSL 2) laboratories in Lagos and Abuja.

Contact: Aderonke Ogunmowo

Email: businessdevelopment@biologix.com.ng

Website: www.biologix.com.ng

Tel: +234 808 484 6534

6. **Unique Instruments & Science Company Limited** is a corporation established in 1992, and has been distributing medical equipment devices and soft medical supplies to Hospital Laboratories, Medical Centres, Quality Control Laboratories in various sectors, Research Institutes, and other Specialty Laboratories across Nigeria and other countries. Our core services include Laboratory Consulting, Turnkey Laboratory Set up, Equipment procurement and installation, Reagent Procurement, Application and User Training, Maintenance, Repair and Calibration/Certification. The applications we provide services and support for: Reproductive Health, Human Identification, Oncomine (cancer) solution, Gene expression, Molecular biology, Cell biology, Genetic testing, and Pharma/Biotech etc.

Contact: marketing@uniqueinstrumentsng.com, Bola.olusanya@uniqueinstrumentsng.com

Website: www.uniqueinstrumentsng.com

Tel: 0816 996 4214, 0906 297 7274, 0906 297 7271

7. **Phillips Pharma Group** was established in 1991 and is a leading pharmaceutical distributor in Sub Saharan Africa with an operating presence in seven countries – Kenya, Uganda, Tanzania, Rwanda, Zambia, Ghana and Nigeria. Phillips Pharma Group companies are authorized distributors for c.100 of the world's leading pharmaceutical and medical device companies, having a strong presence across the pharmaceutical, surgical, radiology, diagnostic and laboratory industry segments. The Group has strong capabilities across the value chain in each country of operation including regulatory services, importation, warehousing, distribution, sales & marketing. The Group distributes directly to all major hospitals, institutions, wholesalers and retailers in each country of operation. The Group is ISO 9001:2015 Certified and has invested in warehousing and distribution infrastructure, systems and processes to ensure strict compliance to the highest levels of GDP (Good Distribution Practice) and Quality Management standards. Our key Partner: Abbott Molecular Diagnostics, Abbott Point of Care and Abbott Rapid Diagnostics.

Contact: Dhananjay (DJ)

Email: dhananjay.jagtap@phillipsnigeria.com.

Website: www.phillipsnigeria.com.

Tel: +234 805 629 1198

8. **Peter and Jane Limited** is an organization that deals with the supplies of medical/laboratory equipment/products, consumables, kits, reagents, biosafety cabinets, refrigerating systems etc. We also supply automated systems used in genomic/sequencing research and clinical practises. Our after-sales services cover installation, calibration, validation, Training Our focus is to enhance the services and operations of life science researchers and clinical practitioners with the aim to meet and exceed their needs/expectations.

Contact: Princess Adepeju Ogunleye

Email: info@peternjane.com, Peter.janeltd@gmail.com

Website: www.peternjane.com

Tel: +234 803 408 6034

9. **HTDS - High Tech Detection Systems** - is a French company specialized in distribution and is a French company specialized in sales distribution and aftersales services of analytical and life science instruments chemicals, reagents, and kits in France and abroad. Created in January 2002 by a team of former executives from the PerkinElmer company, and now HTDS employs more than 250 people and is distributed in across 30 countries. HTDS is proud to partner with world leading suppliers of life sciences and Analytical products (Thermo Fisher Scientific, Perkin Elmer etc). It is present all over Africa thanks to our various subsidiaries. HTDS combines expertise, flexibility, and responsiveness to ensure optimal quality of service and a customized support. HTDS International Nigeria.

Contact: Dr Victor Ekun

Email: Victor.Ekun@Htds.fr.

Tel: +234 805 596 7382

10. **APIN Public Health Initiatives** – is a leading non-governmental organization that focuses on the provision of prevention, care and treatment services to patients with diseases of public health significance such as HIV/AIDS, Tuberculosis and Malaria. APIN also provides technical assistance to relevant government agencies to strengthen the delivery of Health Information Systems, Reproductive Health, Maternal, Newborn and Child Health, Laboratory services.

Email: info@apin.org.ng

Website: <https://apin.org.ng/>

11. **Thermo Fisher Scientific Inc** – is the world leader in serving science, with annual revenue of approximately \$35 billion. Our mission is to enable our customers to make the world healthier, cleaner and safer. Whether our customers are accelerating life sciences research, solving complex analytical challenges, improving patient diagnostics and therapies or increasing productivity in their laboratories, we are here to support them. Our global team of more than 90,000 colleagues delivers an unrivalled combination of innovative technologies, purchasing convenience and pharmaceutical services through our industry-leading brands, including Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services and Patheon. Providing you with quality solutions from sample collection, sample preparation, cold storage, assays and controls, qPCR instruments and consumables, sequencing solutions, reporting and analytics, plastics and consumables, personal protective equipment and other workflow equipment, at equitable prices through our Global Health Equity program, for more information, please visit www.thermofisher.com. West Africa region

Contact: Jumoke Olanipekun

Email: Jumoke.olanipekun@thermofisher.com

Website: www.thermofisher.com

Tel: +234 91 3882 0000;

12. 54gene is a health tech company equalizing precision medicine for Africans and the global population through translational genomics research. What we do: We are ensuring that Africans are well-represented in global genomics research, so in the future, we're not left out of healthcare advancements and targeted therapies. To learn more about 54gene's mission to equalize precision medicine please visit

Website: www.54gene.com

**Afternoon Session
Tuesday, 08th November 2022
Symposium**

"Repositioning the health sector to the health industry: the challenges, policy gaps and potentials"

Venue: Main Auditorium, NIMR

Time: 02:00 – 03:55 pm

Chairs:

Prof AS Akanmu

Professor and Chair, National HIV ART Committee

Prof N. Odunukwe

Director of Research, Nigerian Institute of Medical Research

Rapporteurs:

Dr. Sam Amoo and Mr. Bassey A. Orok

Presentations

02:00 – 02:10 pm

Chairs' opening remarks

02:10 – 02:30 pm

Viewpoint of a researcher and academician

Prof S. Omilabu,

Professor of Medical Virology,
University of Lagos

02:30 – 02:50 pm

Viewpoint of an Intellectual Property Rights expert

Dr Oluwatobiloba Moody,

Director, World Intellectual Property Organization (WIPO),
Nigeria Office

02:50 – 03:10 pm

Viewpoint of the national agency overseeing food, diagnostics, and drugs

Dr M. Eimunjeze,

Director of Registration & Regulatory Affairs,
National Agency for Food and Drug Administration and Control

03:10 – 03:30 pm

Viewpoint of a Private Foundation and sponsor of research

Mrs Zouera Youssoufou,

MD/CEO, Aliko Dangote Foundation

03:30 – 03:45 pm

Discussions and interactions

03:45 – 03:50 pm

Announcements (Rapporteurs)

03:50 – 03:55 pm

Chairs' Closing remarks

Evening Session
Tuesday, 08th November 2022
10th Distinguished Lecture

Venue: Main Auditorium, NIMR

Time: 04:00 – 05:00 pm

Topic: **Exploring Biochemistry as the anatomy of life sciences for solving health challenges and building human capacity: my odyssey**

Chair: **Prof Babatunde Lawal Salako,**
Director-General/CEO NIMR

Rapporteurs: Dr. Azuka Okwuraiwe and Ms. Ibilola Omolopo

Agenda:

03:55 – 04:00 pm Academic Procession

04:00 – 04:05 pm Welcome Address by the Chair

04:05 – 04:10 pm Citation of Distinguished Lecturer

Bamidele Abiodun Iwalokun, BSc, MSc, E-Tech, PhD, IFBA, FRSPH
Deputy-Director of Research and Director, Central Research Facility,
Nigerian Institute of Medical Research

04:10 – 04:55 pm Distinguished Lecture: "**Exploring Biochemistry as the anatomy of life sciences for solving health challenges and building human capacity: my odyssey**"

04:55 – 05:00 pm Announcements (Rapporteurs)

05:00 – 05:05 pm Chair's closing remarks

Morning Session
Wednesday, 09th November 2022
Concurrent Oral Abstracts Session

Oral Abstract Session 04:

Venue: Main Auditorium, NIMR

Time: 08:30 – 09:50 am

Chairs: **Prof NN Odunukwe**
Nigerian Institute of Medical Research

Dr Funto Kalejaiye
University of Lagos, Nigeria

Rapporteurs: Dr. Tomilola Musari-Martins and Mrs F.T. Ige

Presentations:

08:30 – 08:35 am: Chairs' opening remarks

08:35 – 08:45 am **Folahanmi Akinsolu:** Willingness to pay for HPV vaccine among women living with HIV in Lagos State, Nigeria.

08:45 – 08:55 am **Ogbu Chinenye Angela:** Oncogenic human papillomavirus infection is high among at-risk women in Nigeria

08:55 – 09:05 am **Habeeb Salami Damola:** Census of Microbiome and resistome in the gut

09:05 – 09:15 am **Azuka Okwuraiwe:** Human Papillomavirus genotype survey across North and South Nigeria: Preliminary findings

09:15 – 09:25 am **Aliyu Sani Ado:** Molecular detection of beta-lactam resistance genes in staphylococcus aureus isolated from wound infection (a case study of wudil general hospital, wudil – Kano, Nigeria).

09:25 – 09:35 am **Chisomebi Duru:** Effects of Abelmoschus esculentus Fruit Extract on the Malondialdehyde (MDA) Levels In The Plasma And Liver Of Alloxan-induced Diabetic Male Wistar Rats.

09:35 – 09:45 am Questions and Answers

09:45 – 09:50 pm Chairs' closing remarks

Morning Session
Wednesday, 09th November 2022
Concurrent Oral Abstracts Session

Oral Abstract Session 05:

Venue: Biomedical Research Centre Room 1, NIMR

Time: 08:30 – 09:50 am

Chairs: **Prof S. Omilabu**
University of Lagos, Nigeria

Prof S. Ladokun
Lead City University, Ibadan, Nigeria

Rapporteurs: Dr. James Ayorinde and Mrs. Chioma Kunle-Ope

Presentations:

08:30 – 08:35 am: Chairs' opening remarks

08:35 – 08:45 am **Damilola Bodun:** Protein-Ligand Based Pharmacophore Approach against ERK5 Involved in Breast Cancer; In-Silico Study of Flavonoids from *Blighia sapida*

08:45 – 08:55 am **Nureni Ipinloju:** Quantum Evaluation and Therapeutic Activity of (E)-N-(4-methoxyphenyl)-2-(4-(3-oxo-3-phenylprop 1-en-1-yl)phenoxy) acetamide and its Modified Derivatives against EGFR and VEGFR-2 in the Treatment of Triple Negative Cancer

08:55 – 09:05 am **Abigael Edeh:** Changes in physicochemical properties and enzymes associated with ripening of snake tomato (*Trichosanthes Cucumerina L.*) fruit

09:05 – 09:15 am **David Ojo:** Assessment of air quality in Adaranijo market and neighbouring residential buildings in Gbagada, Lagos, Nigeria

09:15 – 09:25 am **Tochukwu Ifeanyi Onuigbo:** Factors Affecting COVID-19 Testing Behaviours among the Population in South Western Nigeria

09:25 – 09:35 am **Susan Holdbrooke:** Assessment of Dyslipidemia for the Prevalence of Metabolic Syndrome in Early, Mid and Late Nigerian Adolescents with High Level of Fasting Blood Sugar and with Systolic and Diastolic Hypertension

09:35 – 09:45 am Questions and Answers

09:45 – 09:50 pm Chairs' closing remarks

Morning Session
Wednesday, 09th November 2022
Plenary Session II

"The health industry in the shadow of COVID-19: focus on one health, programme integration and sustainability"

Venue: Main Auditorium, NIMR

Time: 10:00 – 12:00 noon

Chair: **Prof Aima Ahonkhai**
Vanderbilt University, U.S.A

Dr Oluwo

Rapporteurs: Dr. Vincent Pam Gyang and Dr. Dapo Adeogun

Presentations

10:00 – 10:10 am	Chairs' opening remarks
10:10 – 10:30 am	How integrating health programmes can benefit the control of NTDs – Dr Akpan , Division for the Control and Elimination of NTDs, Federal Ministry of Health, Nigeria
10:30 – 10:50 am	Integrating health programmes can benefit the control of Malaria – Dr Uhomoibhi , National Malaria Elimination Programme
10:50 – 11:10 am	NCDC's needs in responding to diseases outbreaks effectively - Dr Adetifa , Nigeria Centre for Disease Control, Abuja
11:10 – 11:30 am	Integrating health programmes to enhance effectiveness and sustainability – Dr Boyd , US Centre for Disease Control and Prevention, Nigeria
11:30 – 11:50 am	Discussions and interactions
11:50 – 11:55 am	Announcements (Rapporteurs)
11:55 – 12:00 noon	Chairs' Closing remarks
12:00 – 01:50 pm	Exhibition Stands / NIMR Guided Tours / Community Village / Lunch Break

Mid-Day Session Wednesday, 09th November 2022

Viral Haemorrhagic Fever Round Table

Theme:	Emerging and Re-emerging Diseases in Nigeria
Time:	01:00 – 02:00 pm
Venue:	Main Auditorium, NIMR
Chairs:	Dr Adetoun Mustapha
Moderator:	Mrs Fehintola Ige and Dr Oluwafemi Daodu
Rapporteurs:	Mr. Josiah Isong, Mr. Ridwan, Miss Grace Oni

Issues:

Nigeria continues to be a hotspot for emerging and re-emerging infectious diseases. Outbreak of these diseases have become a public health burden threatening our national health security. Zoonotic infections like Lassa Fever, Yellow fever, Ebola virus disease, COVID-19 and the ongoing Monkeypox disease have serious socio-economic, educational and political impact on the nation in addition to the associated high morbidity and mortality. To worsen the situation, Nigeria has been under the attack of flood where thousands of persons have been displaced. Flooding can potentially increase the spread of emerging and re-emerging infectious diseases. Infectious disease outbreaks such as waterborne, rodent-borne, and vector-borne diseases have been associated with flooding.

Research is essential to understand, prevent, control, and respond to new and re-emerging infectious diseases. At this round table session, we shall present our research findings on risk assessments and outcome of vector control on pathogens of public health importance in some states in the country.

Speakers:

Emelda Chukwu:	Tracking the epidemiology of pathogens of public health importance in Lagos State
Toyin Awoderu:	Microbial analysis of sachet water sold in Lagos State
Joseph Shaibu:	Molecular surveillance of arboviruses in Delta State
Adedapo Adeogun	Impact of effective control intervention on vector borne diseases in Nigeria: lessons learnt from Delta State.
Temitope Adeyeye	Molecular Surveillance for Ebola, Marburg and Nipah Viruses from Bats in Kwara State.

Afternoon Session
Wednesday, 09th November 2022
Concurrent Oral Abstracts Session

Oral Abstract Session 06:

Venue: Main Auditorium, NIMR
Time: 02:00 – 03:25 pm
Chairs: **Prof PGC Odeigah**
Nigerian Institute of Medical Research

Dr Adetoun Mustapha
NIMR / International Society for Environmental Epidemiology

Rapporteurs: Dr. P. Ezemelue and Mrs. Ajoke Adagbada

Presentations:

02:00 – 02:05 pm: Chairs' opening remarks

02:05 – 02:15 pm **Momoh Abidemi Esther:** Minimal resistance mutations recorded among patients on Dolutegravir (DTG)-containing regimen with unsuppressed viral load in Lagos, Nigeria.

02:15 – 02:25 pm **Mabel Uwandu:** Antimicrobial analysis of selected soft drinks (kunun, zobo, and brukutu) and their antimicrobial susceptibility pattern in lagos, southwestern, Nigeria

02:25 – 02:35 pm **Oluwatoyin Olawunmi Adeyelu:** Integrons, plasmid replicon types, metallo- β -lactamase encoding genes and antimicrobial susceptibility profile of *Pseudomonas aeruginosa* isolated from clinical samples.

02:35 – 02:45 pm **Vincent Pam Gyang:** Evaluation of a Point-of-Care Circulating Cathodic Antigen (POC-CCA) Urine Assay for the Diagnosis of *Schistosoma mansoni* in Ogun state.

02:45 – 02:55 pm **Folake Latifat Adedokun:** Antibiotic Resistance Profile and Plasmid Replicon Types of Non-typhoidal *Salmonella* Serovars Isolated from Food Animals and Humans in Lagos, Nigeria.

02:55 – 03:05 pm **Emelda Chukwu:** Investigation of wastewater canals as a means of tracking the epidemiology of bacteria pathogens of public health importance and antimicrobial resistance (AMR) transmission in Lagos State: Preliminary findings.

03:05 – 03:15 pm Questions and Answers

03:15 – 03:20 pm Announcements (Rapporteurs)

03:20 – 03:25 pm Chairs' closing remarks

Afternoon Session
Wednesday, 09th November 2022
Concurrent Oral Abstracts Session

Oral Abstract Session 07:

Venue: Biomedical Research Centre, Room 1, NIMR
Time: 02:00 – 03:25 pm
Chairs: **Prof R.A. Audu**
Nigerian Institute of Medical Research

Dr F. Nwaokorie
University of Lagos, Nigeria

Rapporteurs: Dr. Rufai Abubakar and Mrs. Wunmi Acholo

Presentations:

02:00 – 02:05 pm: Chairs' opening remarks

02:05 – 02:15 pm **Abraham Ajayi:** One Health Assessments of Antimicrobial Resistant Bacteria (ARB) and Antimicrobial Resistance Genes (ARGs) from waste effluents and soil of livestock farms in Lagos state, Nigeria

02:15 – 02:25 pm **Oluwabukunmi Odedeji:** inheritance of purple pigmentation in *Carica Papaya* Linnaeus

02:25 – 02:35 pm **Babatunde Lawal Oriyomi:** Molecular detection of flaviviruses in patients presenting with febrile illness in two general hospitals in Lagos State

02:35 – 02:45 pm **Mariam Eluma:** Prevalence of *Aeromonas* species in treated and untreated water in parts of Plateau state, Nigeria

02:45 – 02:55 pm **Yusuf Babatunde:** Need for inclusion of AMR into pre-service pharmacy curriculum in Nigeria: A comparison of the Bachelor of Pharmacy curriculum at the University of Ilorin with the WHO AMR competency framework

02:55 – 03:05 pm **Stephnie Nwaiwu:** Antimicrobial Activities and Phytochemical Screening of Five Nigerian Chewing sticks

03:05 – 03:15 pm Questions and Answers

03:15 – 03:20 pm Announcements (Rapporteurs)

03:20 – 03:25 pm Chairs' closing remarks

Afternoon Session

Wednesday, 09th November 2022

Networking and Continual Education Session

SKB 05: Introduction to the National SPiCE ECHO Programme

Venue: Main Auditorium, NIMR

Time: 03:30 – 03:55 am

Chair: **Dr Jay Samuels**
APIN Public Health Initiatives

Dr Adebobola T. Bashorun
National AIDS, Viral Hepatitis and STDs Control Programme
(NASCP), Federal Ministry of Health, Nigeria

Rapporteurs: Ms. Joy Ogunwale

Hosts: The Public Health Information, Surveillance Solutions, and
Systems (PHIS3) project, a US Centers for Disease Control and
Prevention (CDC) funded project

National AIDS, Viral Hepatitis and STDs Control Programme
(NASCP), Federal Ministry of Health, Nigeria

Presentations:

03:30 – 03:35 pm: Brief Introduction to ECHO programmes and SPiCE ECHO

03:35 – 03:50 pm: Maintaining good mental health among healthcare workers
Dr Yetunde Akani (Subject Matter Expert)
University of Port-Harcourt, Nigeria

03:50 – 03:55 pm: Questions and Answers

03:55 – 04:00 pm: Chairs' closing remarks

Evening Session

Wednesday, 09th November 2022

Closing Ceremony

Venue:	Main Auditorium, NIMR
Time:	04:00 – 05:30 pm
Chair:	Prof Babatunde Lawal Salako Nigerian Institute of Medical Research, Nigeria
Rapporteurs:	Dr. Jane Okwuzu and Mr. Ahmed Tajudeen
Agenda:	
04:00 – 04:05 pm	Introductions
04:05 – 04:10 pm	National Anthem
04:10 – 04:20 pm	Chair's opening remarks
04:20 – 04:40 pm	Highlights of Conference proceeding by lead rapporteur, Dr Muinah Fowora
04:40 – 05:10 pm	Presentation of Awards and Certificates Student Conference Scholars 2022 Young Scientist Award Conference Sponsors and Endowments 2022-2023 NIMR Ambassadors of Research Award to the Distinguished Lecturer
05:10 – 05:15 pm	Vote of thanks, Alh. Abdullahi S. Yunusazzazau , mni Director of Administration, NIMR
05:15 – 05:20 pm	Announcements (Rapporteurs)
05:20 – 05:25 pm	Chair's Closing Remarks (<u>Declares Conference Closed</u>)
05:25 – 05:30 pm	National anthem

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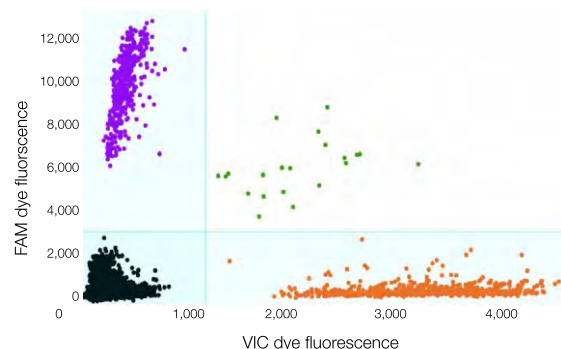
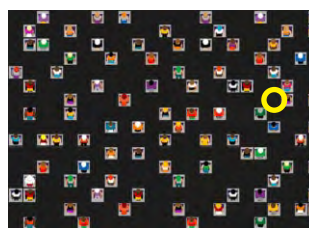


Figure 1. Positive and negative micro-chambers across two optical channels.

Seeing the whole picture

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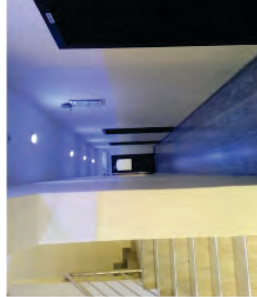
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*The Director General, Senior Management Committee
and Chairman, Local Organizing Committee
sincerely thank everybody for gracing this historic occasion.*



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