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**Institut de Recherche
pour le Développement
FRANCE**

French National Research Institute for Sustainable Development

“Advances in surveillance and control methods for *Aedes*-borne diseases and urban vectors”

*ino***VEC**



**International
Conference**

August 26-28, 2024
Dar es Salaam, Tanzania



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International conference on advances in surveillance and control methods for *Aedes*-borne diseases and urban vectors

1. Background

Over the last decades, arboviral diseases transmitted by mosquitoes, such as dengue, Zika, chikungunya and yellow fever, have seen a significant rise in prevalence and severity. From 2000 to 2019, the [World Health Organization \(WHO\)](#) reported a ten-fold increase in dengue reported cases worldwide, reaching 5.2 millions. In 2023, there were over 5 million dengue cases and > 5000 related deaths across 80 countries/territories marking it as a historically alarming year. According to the WHO, Africa is among the top 4 regions most affected by dengue, with 171,991 cases and 753 deaths in 2023, highlighting the urgent need to provide adequate response to this new threat. While the WHO has prequalified Dengue vaccine, the availability of effective vaccines and treatments remains limited. Consequently, vector control remains the cornerstone in the prevention and control of *Aedes* transmitted diseases. Unfortunately, the resurgence of dengue worldwide highlights the limitations of current vector control tools in preventing epidemics. Consequently, new affordable, scalable and community-based vector control measures are urgently needed to tackle *Aedes*-borne diseases and urban mosquito vectors (including *Aedes spp.* and *Anopheles stephensi*) to contribute to better health and human well-being.

2. Scope of the conference

The international conference jointly organized by [Ifakara Health Institute \(IHI\)](#) and [Institut de Recherche pour le Développement \(IRD\)](#) with the support of the European [INOVEC project](#) (see Section 7) will serve as a forum of exchanges within the scientific community including scientists, students, and academia as well as representatives from public health sectors, stakeholders, donor agencies, industry and international organizations engaged in controlling vector-borne diseases (VBDs). They will serve to review evidence, create new links, mobilize resources, and facilitate basic and translational research. The overarching goal is to contribute to the reduction of the burden of vector borne diseases. The conference will be structured around 3 themes as outlined in Section 3 (table 1).

3. Objectives of the Conference

- i) To facilitate knowledge exchange and promote collaborative research and innovation for the surveillance and control of *Aedes* and *Aedes*-borne diseases (ABDs) in Africa and beyond;
- ii) To review the performances of new tools, approaches and technologies for *Aedes* mosquito control and identify gaps and priorities;

iii) To promote inter-sectoral and international collaborations and facilitate discussions for actionable outcomes for improved public health measures against mosquito borne diseases.

4. Format of the conference

The conference will be held at the esteemed [Four Points by Sheraton Dar es Salaam New Africa](#), Tanzania, with 2.5 days of scientific presentations. The conference is organized around **three scientific themes**: the Biology and Ecology of *Aedes* Vectors, Integrated Approaches to Vector Control, and Innovation in Vector Control. A [“Call for abstracts”](#) was opened to ensure broad participation and representation of speakers. Eight **keynote speakers** from different regions will share their knowledge and expertise in the field. There will be a **session dedicated to PhD Students** to allow early stage researchers to present their work and find new opportunities to stimulate their careers. Awards will be provided to the best three presenters. A **turbo talk session** will be organized also to allow selected participants to briefly present their posters (3’ per poster). Finally, an **industry session** will be organized to allow companies and start-ups involved in R&D to present the latest advances in vector control tools and technologies. The conference will be free of charge but registration is compulsory and under approval of conference organizers.

5. Keynote Speakers



“Global dengue situation and the global arbovirus initiative”

Raman Velayudhan (Unit Head at the Veterinary Public Health, Vector Control, and Environment Unit in the Global Neglected Tropical Diseases Programme of the [World Health Organization](#))

Dr. Velayudhan, MSc, PhD, serves as the global focal point for dengue prevention and control and Integrated Vector Management at WHO, where he coordinates arboviral vector-borne disease control activities. He supports the Vector Control Advisory Group's secretariat and was honored with the WHO DG's Award for Excellence in 2017 as a member of the Zika incidence management team. With over 45 peer-reviewed publications, Dr. Velayudhan has led the development of numerous WHO documents and guidelines, including the dengue guidelines, the global strategy for dengue prevention and control, the handbook on Integrated Vector Management, the Global Vector Control Response (2017-2030), and the Global Arbovirus Initiative.



“INOVEC: a research and Innovation Partnership for enhancing the surveillance and control of mosquito Vectors of emerging arboviruses”

Vincent Corbel (Director of Research at [IRD](#) & Visiting Professor at IOC-[Fiocruz](#))

With over 20 years of experience in medical entomology, he has worked in Africa, Asia, and South America. In 2016, he launched the [WIN network](#), supported by WHO NTD & TDR, to assist member states in timely insecticide resistance surveillance and vector control strategies. Building on its success, he initiated the WIN-SA network with Fiocruz to coordinate insecticide resistance research in South America. Since 2023, he has coordinated the [EU-HORIZON-MCSA INOVEC](#) consortium to develop and promote new tools for the surveillance and control of emerging arbovirus vectors in Europe and beyond.



“Predicting the Risk of *Aedes*-Borne Diseases in Dar es Salaam”

Yeromin Mlacha (Research Scientist at the [Ifakara Health Institute](#))

Tanzanian vector biologist with nearly 15 years of experience in vector control programs, focusing on mosquito vectors of malaria and arboviruses like Dengue, Chikungunya, and Zika. He leads a study in urban Dar es Salaam using machine learning to assess vector-borne disease risks and develop effective community-based responses. Dr. Mlacha is the Entomology Work Package Lead for Result 4 of the DHIBITI MALARIA Project, funded by the U.S. President’s Malaria Initiative, which improves entomological monitoring for effective vector control in Tanzania by tracking insecticide resistance and malaria vector species composition.



“Preparing for the impacts of climate change on zoonotic mosquito-borne disease emergence: experiences from a One Health research programme in Scotland”

Heather Ferguson (Professor in Medical Entomology and Disease Ecology at the [University of Glasgow](#))

Vector ecologist focusing on the ecology, behavior, and control of mosquitoes transmitting malaria and arboviruses. She develops new vector surveillance and control tools with partners in malaria-endemic countries and has a long-term research partnership with the Ifakara Health Institute in Tanzania. Ferguson leads a One Health research program in Scotland studying the risk of zoonotic mosquito-borne diseases under various climate scenarios. She is a former Co-Chair of the WHO’s Vector Control Advisory Group and a current member of the Strategic Technical Advisory Group on Neglected Tropical Diseases.



“Communities and Publics in the Control of Invasive Vector Species”

Javier Lezaun (Professor, School of Anthropology, [University of Oxford](#))

Director of the Institute for Science, Innovation and Society (InSIS) and a Professor in the School of Anthropology at the University of Oxford. His research focuses on the use of scientific knowledge in global health and climate transitions. He has investigated the prevention and control of vector-borne diseases, including malaria in Tanzania, Burkina Faso, and Venezuela, and *Aedes aegypti* reduction programs in Brazil. He currently directs the Diseased Landscapes project, exploring the links between leishmaniasis, environmental change, and political conflict in Colombia. Javier is particularly interested in the factors enabling community-led responses to vector-borne risks.



“Vector Cloud: A web-based application for improving urban malaria vector surveillance using MALDI TOF MS”

Marta Ferreira Maia (Associate Professor at the [University of Oxford, Nuffield Department of Medicine](#) / [KEMRI](#), Kenya)

Passionate about capacity building, equitable collaborations, and promoting a diverse and inclusive research environment, Maia is a medical entomologist with a one-health background specialized in malaria vector control, vector biology and ecology. She is currently working with the BOHEMIA consortium as the entomology work package leader and Kenya country PI of a cluster randomised controlled trial evaluating ivermectin mass drug administration for malaria control in Kenya. Furthermore, she works to develop MALDI-TOF MS as a new surveillance tool for malaria vectors.



“Scaling up the Wolbachia method to prevent dengue outbreaks in endemic areas”

Jérémie Gilles (Director of Projects at the [World Mosquito Program](#))

Medical entomologist specialising in the bio-ecology and physiology of disease vectors such as *Anopheles* and *Aedes aegypti* mosquitoes. He has more than 20 years’ experience working on innovative methods to control mosquitoes, specialising in large-scale rearing and deployment. As the Director of Engineering and Projects, his main focus is to develop and build capacity for national rollout to control mosquito-borne diseases.



“The vector control pipeline for *Aedes aegypti*”

Jennifer Stevenson (Medical entomologist at the [Swiss Tropical and Public Health Institute](#))

Jennifer Stevenson collaborates with the [Ifakara Health Institute](#) in Tanzania, focusing on evaluating new vector control products. Since 2005, she has gained extensive experience in establishing and managing lab, semi-field, and field studies, as well as large-scale community trials in Tanzania, Zambia, Kenya, and Uganda. She has also developed vector control guidelines and guidance for countries in collaboration with WHO, Geneva. In addition to evaluating practical control tools, her research centers on understanding transmission drivers, supporting control and elimination efforts, describing vector bionomics, and assessing mosquito responses to interventions. Jennifer is dedicated to fostering mutual learning and development among collaborators and teams, and to developing sustainable systems for programmatic vector control and monitoring of vector-borne diseases and mosquito dynamics.

6. Round Table

Theme: “Are we losing the battle against urban mosquito-borne diseases in Africa? Challenges and opportunities in controlling the spread of *Anopheles stephensi* and *Aedes spp* mosquitoes.

Invited speakers



“Strengthening *Aedes*-borne arbovirus surveillance in West Africa: the role of West African *Aedes* Surveillance Network (WAASuN)”

Dr. Samuel Dadzie (Associate Professor of Medical Entomology, [Noguchi Memorial Institute for Medical Research](#), [University of Ghana](#))

With over 26 years of experience in vector research focused on Malaria, Arboviral, and Neglected Tropical Diseases, he is a founding member and the current chair of the West African *Aedes* Surveillance Network (WAASuN). He contributed to the WHO/TDR guidelines for *Aedes* mosquito surveillance and is the vice-chair of the Technical Advisory Group for the WHO Global Arboviral Initiative.



“The Threats of malaria vector *Anopheles stephensi* in Africa”

Dr. Nicodem James Govella (Professor, Public Health Entomologist, [Population Services International](#), Tanzania)

With 20 years of experience, Govella specializes in vector ecology, surveillance, and transmission, aiming to improve interventions. Currently, he is the Entomology & Vector Control Technical Lead at PSI and Chief Research Scientist at Ifakara Health Institute. He holds a PhD from the University of Liverpool and has received several awards, including the Wellcome Trust Fellowship and the MRC African Research Leaders Award. Prof. Govella has developed scalable mosquito surveillance tools, pioneered methods to measure human exposure to bites, and advocated for addressing residual malaria transmission.

Chairman:



Dr. Daniel Msellemu (Senior Research Scientist at IHI, Tanzania)

Moderators:



Dr. Prosper Chaki (Senior Research Scientist at IHI, Tanzania)



Dr. Audrey Lenhart (Head of Entomology Branch, US. CDC, Atlanta, USA)



Dr. Raman Velayudhan (Unit Head, Veterinary Public Health, Vector Control and Environment unit, Global Neglected Tropical Diseases Programme, WHO-NTD, Geneva)



Dr. Jennifer Armistead (Vector Control Team Lead, U.S. President's Malaria Initiative/USAID, Washington, USA)

7. Programme

DAY	SESSION	TIME	DESCRIPTION OF ACTIVITIES
1		Day One 26th August 2024	
		<u>7:00</u> <u>8:00</u>	Registration
		<u>8:00</u> <u>8:30</u>	Welcome statement and introduction to the conference Dr. Honorati Masanja , Chief Executive Director, <u>IHI</u> , Tanzania Dr. Ahmad Makuwani , Ag. Director Division of Reproductive, Maternal and Child Health, <u>Ministry of Health</u> , Tanzania Luc Blanco , Cooperation and Cultural Action Advisor (COCAC), <u>French Embassy in Tanzania</u> Emmanuel Kaindoa , <u>IHI</u> , Tanzania (chair) Objectives of the conference and expectations
		<u>8:30</u> <u>9:00</u>	Raman Velayudhan , <u>WHO-NTD</u> , Switzerland “Global dengue situation and the global arbovirus initiative”
		<u>9:00</u> <u>9:15</u>	Vincent Corbel , <u>IRD/Fiocruz</u> , Brasil (co-chair) “INOVEC: a research and InNOvation partnership for enhancing the surveillance and control of mosquito Vectors of emerging arboviruses”
		<u>9:15</u> <u>9:45</u>	Coffee Break
1	1	Scientific Session: Biology and Ecology of Aedes Vectors Chairs: Emmanuel Kaindoa (<u>IHI</u>) & Florence Fournet (<u>IRD</u>)	
		<u>9:45</u> <u>10:15</u>	Yeromin P. Mlacha , <u>IHI</u> , Tanzania “Predicting the Risk of Aedes-Borne Diseases in Dar es Salaam”
		<u>10:15</u> <u>10:45</u>	Heather Ferguson , <u>University of Glasgow</u> , Scotland “Preparing for the impacts of climate change on zoonotic mosquito-borne disease emergence: experiences from a One Health research programme in Scotland”
		<u>10:45</u> <u>12:00</u>	Alfred Simfukwe , <u>IHI</u> , Tanzania “Assessing the Risk of Mosquito-Borne Diseases along the Tanzania-Zambia Railway Network (TAZARA)”

		<p>Keller Alphonse Konkon, CREC, Benin “Distribution and Abundance of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> in Benin, West Africa”</p> <p>David P. Tchouassi, Icipe, Kenya “Response patterns of male mosquitoes to olfactory cues of plant and vertebrate origin”</p> <p>Sperancia Coelestine Lushasi, IHI, Tanzania “Interspecific competition between larvae of <i>Aedes aegypti</i> and major African malaria vectors in a semi field system in Tanzania”</p> <p>Ana Cristina Bahia Nascimento, UFRJ, Brasil “Characterization of total and cultivable <i>Aedes aegypti</i> mycobiome and the antiviral effect of the fungus <i>Candida guilliermondii</i>”</p>
	<p>12:00 13:30</p>	<p>Lunch Break</p>
1	1	<p>Scientific Session: Biology and Ecology of Invasive Vectors Chairs: Yeromin Mlacha (IHI) & Ademir Martins (Fiocruz)</p>
	<p>13:30 15:00</p>	<p>Roch Dabiré, IRSS, Burkina Faso “Dynamics of <i>Aedes aegypti</i> populations in Bobo-Dioulasso city from 2021-2022: perspectives for Sterile Insect Technique Implementation in Burkina Faso”</p> <p>Rakiya Jafaru, NDA, Nigeria “Genomic surveillance and data science: advancing control of vector-borne infections”</p> <p>Jacklin Franklin Mosh, NIMR, Tanzania “A survey of <i>Aedes</i> mosquito bionomics, insecticide susceptibility and sero-epidemiology of dengue in the Lake Zone, Tanzania”</p> <p>Ademir Jesus Martins, Fiocruz, Brasil “Insecticide resistance monitoring in <i>Aedes aegypti</i> from Brazil”</p> <p>Tokponnon Tachémè Filémon, CREC, Benin “Insecticide Resistance in <i>Aedes aegypti</i> Mosquitoes: Possible Detection of kdr F1534C, S989P, and V1016G Triple Mutation in Benin, West Africa”</p> <p>Athanase Badolo, UJKZ, Burkina Faso “48-hour surveillance of <i>Aedes aegypti</i> activity along an urbanisation gradient reveals substantial nocturnal and outdoor biting in Burkina Faso”</p>

1		<p><u>15:00</u></p> <p><u>15:30</u></p>	<p>Turbo Talk Poster (3' talk + 1' for questions)</p> <p>Chairs: Zawadi Magenii (IHI) & Paulo Ribolla (Unesp)</p>
			<p>Olukayode Odufuwa, IHI, Tanzania “House modifications using insecticide treated screening of eave and window as vector control tool: evidence from a semi-field system in Tanzania and simulated epidemiological impact”</p> <p>Fabien Zimbombe Vulu, Tropical Medicine Department, UNIKIN, DR Congo “Geographic expansion of the introduced <i>Aedes albopictus</i> and other native <i>Aedes</i> species in the Democratic Republic of the Congo”</p> <p>Borel Tchamen Djiappi, Dschang University, Cameroon “<i>Aedes</i> Mosquito Distribution along a Transect from Rural to Urban Settings in Yaoundé, Cameroon”</p> <p>Zoukifilou Saré Dabou, EPAC-UAC, Benin “Insecticide resistance of <i>Aedes aegypti</i> mosquitoes: Co-occurrence of multiple kdr mutations in the Abomey-Calavi district”</p> <p>Julien Zahouli, CSRS, Côte d’Ivoire “Evaluation of <i>Aedes aegypti</i> larval indices and eco-bio-social determinants and Fludora Co-Max efficacy against insecticide-resistant adult populations in Côte d’Ivoire”</p>
		<p><u>15:30</u></p> <p><u>16:00</u></p>	<p>Coffee Break</p>
1		<p><u>16:00</u></p> <p><u>17:30</u></p>	<p>Doctoral Students Session (10’ talk + 5’ for questions)</p> <p>Chairs: Anne Poinsignon (IRD) & Halfan Ngowo (IHI)</p>
			<p>Christophe Rostand Keumeni, CRID, Cameroon “Detection of F1534C, V410 and V1016I kdr mutations and association with pyrethroid resistance in <i>Aedes aegypti</i> from Cameroon”</p> <p>Frank Tenywa, IHI, Tanzania “Understanding <i>Aedes aegypti</i> mosquito ecology to reduce dengue transmission in Tanzania”</p> <p>Theno D.B. Carine, Yaoundé I University, Cameroon “Bionomics of <i>Aedes</i> mosquito species in three eco-epidemiological settings of Cameroon and their susceptibilities profiles to insecticides”</p> <p>Frank Tenywa, IHI, Tanzania “Surveillance of dengue and other arboviruses in mosquitoes from Dar es Salaam, Tanzania”</p>

		<p>Sandra Ateutchia Ngouanet, <u>IITA</u>, Benin “Monitoring <i>Aedes</i> populations for arboviruses, Wolbachia, insecticide resistance and its mechanisms in various agroecosystems in Benin”</p> <p>Temesgen Ashine, <u>AHRI</u>, Ethiopia “Spatiotemporal distribution and bionomics of <i>Anopheles stephensi</i> in different eco-epidemiological settings in Ethiopia”</p> <p>Borel Tchamen Djiappi, <u>Dschang University</u>, Cameroon “High efficacy of VectoMax-G® larvicide against <i>Aedes aegypti</i> and <i>Aedes albopictus</i> species under semi-natural conditions in Yaoundé, Cameroon”</p>
2		Day Two 27th August 2024.
		<p><u>7:00</u> Registration <u>8:00</u></p>
2	2	<p>Scientific Session: Integrated Approaches to Vector Control (10’ + 5’ questions) Chairs: Marcia de Freitas (<u>Fiocruz</u>) & Roch Dabiré (<u>IRSS</u>)</p>
		<p><u>8:00</u> Javier Lezaun, <u>University of Oxford</u>, UK <u>8:30</u> “Communities and publics in the control of invasive vector species”</p>
		<p><u>8:30</u> Marta Maia, <u>KEMRI</u>, Kenya <u>9:00</u> “Vector Cloud: A web-based application for improving urban malaria vector surveillance using MALDI TOF MS”</p>
		<p><u>9:00</u> Bachirou Tinto, <u>INSP</u>, Burkina Faso <u>10:30</u> “Surveillance and control of Arboviruses in Burkina Faso using a global approach (ArboFaso)”</p> <p>Amri Said Abas, <u>IHI</u>, Tanzania “Risk of <i>Aedes</i>-borne diseases in and around the Tanzanian seaport of Tanga despite community members being more concerned with malaria”</p> <p>Debora Charles Kajeguka, <u>KCMUCo</u>, Tanzania “Antibodies to <i>Aedes</i> salivary proteins a suitable tool to measure exposure to mosquito bites in Northern Tanzania”</p> <p>Rose Nakasi, <u>Makerere University</u>, Uganda “Leveraging Technology to Enhance Vector-Borne Disease Surveillance in Uganda”</p>

		<p>Luis Filipe Lopes, IHMT-UNL, Lisbon “Stakeholder mapping to support pilot trials of digital tools for citizen engagement in mosquito surveillance”</p> <p>Tobias Suter, Swiss TPH, Switzerland “The potential use of detection dogs for the surveillance of the Asian tiger mosquito”</p>
	<p>10:30 11:00</p>	<p>Coffee Break</p>
2	2	<p>Scientific Session: Integrated Approaches to Vector Control (10’ + 5’ questions) Chairs: Rosemary Lees (LSTM) & Luis Filipe Lopes (IHMT-UNL)</p>
	<p>11:00 12:15</p>	<p>José Bento Pereira Lima, Fiocruz, Brasil “Implementation of traps (ovitrap) for surveillance and guidance of control actions of <i>Aedes</i> in Brazil”</p> <p>Masudi Suleiman, IHI, Tanzania “The MTego trap: a potential tool for monitoring and control of malaria and arbovirus vectors”</p> <p>Márcia F. Lenzi, Fiocruz, Brasil “Entomofavela - A community based vector surveillance approach in a vulnerable territory, Rio de Janeiro, Brasil”</p> <p>Dickson Msaky, IHI, Tanzania “Development of a system to support community-based surveillance of disease-transmitting mosquitoes in resource-constrained settings”</p> <p>Pie Müller, Swiss TPH, Switzerland “Citizen action for sustainable control of dengue vectors in Abidjan, Côte d’Ivoire”</p>
	<p>12:15 13:30</p>	<p>Lunch Break</p>
2		<p>Round Table : Are we losing the battle against urban mosquito-borne diseases in Africa? Challenges and opportunities in controlling the spread of <i>Anopheles stephensi</i> and <i>Aedes spp</i> mosquitoes Chair: Daniel Msellemu (IHI), Senior research scientist</p>
	<p>13:30 15:00</p>	<p>Invited Speakers: Samuel Dadzie, NNMIMR, University of Ghana, Ghana</p>

		<p>“Strengthening <i>Aedes</i>-borne arbovirus surveillance in West Africa: the role of West African <i>Aedes</i> Surveillance Network (WAASuN)”</p> <p>Nicodemus Govella, <u>Population Services International</u>, Tanzania</p> <p>“The threats of malaria vector <i>Anopheles stephensi</i> in Africa”</p> <p>Moderators:</p> <p>Prosper Chacki, Executive Director of <u>PAMCA</u>, Tanzania</p> <p>Audrey Lenhart, Head of Entomology Branch, US., <u>CDC</u>, USA</p> <p>Raman Velayudhan, Unit Head, Veterinary Public Health, Vector Control and Environment unit (VVE), Global Neglected Tropical Diseases Programme, <u>WHO-NTD</u>, Geneva</p> <p>Jennifer Armistead, Vector Control Team Lead, U.S., President of Malaria Initiative/<u>USAID</u>, USA</p>
	<p><u>15:00</u> <u>15.30</u></p>	<p>Coffee break</p>
2		<p>Industry Session: Developing public-private partnership for success</p> <p>Chairs: José Bento Lima (<u>Fiocruz</u>) & Jennifer Stevenson (<u>Swiss TPH</u>)</p>
	<p><u>15.30</u> <u>15.45</u></p>	<p>Arianna Braccioni, <u>I2I</u>, UK</p> <p>“VCPFP: a professional placement opportunity for African researchers and manufacturers of vector control tools to exchange knowledge and best practices and to contribute to the development of global health interventions”</p>
	<p><u>15:45</u> <u>17:30</u></p>	<p>Laetitia Leroy, <u>Clarke</u>, USA</p> <p>“The Nexus of Innovative and Integrated Vector Control: Solutions for Effective Dengue and Malaria Management”</p> <p>Duncan Athinya, <u>Vestergaard Frandsen (EA) Limited</u>, Kenya</p> <p>“Interactive visualization of the spatial-temporal trends of insecticide resistance in <i>Aedes aegypti</i> and <i>Aedes albopictus</i>”</p> <p>Thomas Mascari, <u>SC Johnson</u>, USA</p> <p>“SC Johnson Healthier World Initiative and overview of spatial repellent program”</p> <p>Astrid Schuhbauer, <u>Biogents AG</u>, Germany</p> <p>“Tiger mosquito monitoring with BG-GAT and BG-Pro traps”</p> <p>Yin Qing, <u>Yorkool</u>, China</p> <p>“Introduction of Yorkool”</p> <p>Discussions</p>

2		<u>18:00</u> <u>23:00</u>	Ethnicity Night Dinner Gala at Helenic Garden
3		DAY THREE 28th August 2024.	
		<u>7:00</u> <u>8:00</u>	Registration
3	3	Scientific Session: Innovation in Vector Control (10' + 5' questions) Chairs: Vincent Corbel (IRD/Fiocruz) & Dr. Mgeni Tambwe (IHI)	
		<u>8:00</u> <u>8:30</u>	Jérémie Gilles, WMP, France "Scaling up the Wolbachia method to prevent dengue outbreaks in endemic areas"
		<u>8:30</u> <u>9:00</u>	Jennifer Stevenson, Swiss TPH, Tanzania "The vector control pipeline for <i>Aedes aegypti</i> "
		<u>9:00</u> <u>10:15</u>	Audrey Lenhart, CDC, USA "Overview of innovative <i>Aedes</i> tools under VCAG review: applicability in Africa and beyond" Amy C. Morrison, UC Davis, USA "Efficacy of a spatial repellent for control of <i>Aedes</i> -borne virus transmission: a cluster randomized trial in Iquitos, Peru" Jérémy Bouyer, Cirad, France "Overview of the progress of the Sterile Insect Technique (SIT) and boosted SIT against <i>Aedes</i> invasive species at the world level" Bart Knols, K&S Consulting, Netherlands "Mass trapping of arboviral vectors: Results from Asia and an outlook for Africa" Jane Machange, IHI, Tanzania "Comparison of trapping efficacy of locally modified Gravid <i>Aedes</i> Trap and Autocidal Gravid Ovitrap for the monitoring and surveillance of <i>Aedes aegypti</i> mosquitoes in Tanzania"
		<u>10:15</u> <u>10:45</u>	Coffee Break

3	3	Scientific Session: Innovation in Vector Control (10' + 5' questions) Chairs: Pie Müller (Swiss TPH) & Zawadi Mageni (IHI)	
		<u>10:45</u> <u>12:15</u>	<p>Rosemary Lees, LSTM-I2I, UK “Better methods, better data: landscaping the priorities for enhanced methodologies in mosquito surveillance and control”</p> <p>Frédéric Schmitt, Envu, France “The iDEM trial (intervention for Dengue Epidemiology in Malaysia) to measure the effectiveness of integrated vector management on the incidence of dengue in urban Malaysia: a cluster randomized controlled trial”</p> <p>Augustino Thabiti Mmbaga, IHI, Tanzania “Current and future opportunities of auto-dissemination of pyriproxyfen for malaria vector control in rural and urban Africa”</p> <p>Gerry Killeen, UCC, Ireland “Entomological and sociological assessments of hessian fabric transfluthrin vapour emanators for protecting against <i>Aedes</i> mosquitoes in urban Tanzania and Haiti”</p> <p>Syeda Tullu Bukhari, KEMRI, Kenya “Microsporidia MB a novel malaria transmission-blocking strategy: Community acceptance and potential to control malaria transmitted by <i>An. stephensi</i>”</p> <p>Paulo Eduardo Martins Ribolla, Unesp, Brazil “Bioinsecticides based on interfering RNA to control <i>Aedes</i> mosquitoes”</p>
3		<u>12:15</u> <u>13:00</u>	Closing Ceremony and Awards Awards delivery to PhD students by IHI representative Closing speech by an IHI representative
		<u>13:00</u> <u>14:00</u>	Lunch Break
3	MTM	<u>14:00</u> <u>18:00</u>	INOVEC Mid-term Meeting (Closed Session)

8. Organization Committees

8.1 Scientific Committee

Emmanuel Kaindoa (Chair)	IHI, Tanzania	ekaindoa@ihi.or.tz
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8.2 Logistics Committee

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9. The INOVEC project

[The INOVEC project](#) proposes to build a large pan-European, cross-sectoral and multidisciplinary network to develop, optimize and promote integrated approaches and innovative tools for the surveillance and control of mosquito vectors of emerging arboviruses. INOVEC will gather 21 academic and non-academic institutions specialized in vector biology, social sciences and product development to stimulate basic and applied research, strengthen capacities, promote career development and facilitate knowledge and technology transfer to countries at increasing risk of arboviral diseases.

INOVEC has the commitment to coordinate and integrate sectors in order to maximize impact, raise awareness of policy makers and stakeholders, and participate in the improvement of innovation potential at the European and global level. INOVEC will contribute to international efforts to improve global health and human well-being by reducing the burden of vector borne diseases.

 [INOVEC Project](#)

 [@inovec_project](#)

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10. Information Sheet

ITEM	DETAIL	REMARKS
City, Country	Dar es Salaam, Tanzania	The International Conference on Advance in Surveillance and Control Methods for <i>Aedes</i> -borne Diseases and Urban Vectors
Venue	Four Points by Sheraton Dar es Salaam New Africa	Monday 26 – Thursday 28 August 2024
Hotels	<ul style="list-style-type: none"> • Four Points by Sheraton Dar es Salaam New Africa • Holiday Inn Hotel • Tiffany Diamond Hotel • Golden Tulip Dar City Centre • Johari Rotana Hotel • Onomo Hotel Dar Es Salaam • Hyatt Regency Hotel • Dar Es Salaam Serena Hotel 	These are the recommended hotels which are close to the conference venue. Check-in time is 1 p.m. Early check-in and late check-out can be requested at the respective hotels. Kindly share your check-in timings with the organizing team and confirm checkout times upon arrival.
Weather	Weather indications for the duration of the stay	https://www.timeanddate.com/weather/tanzania/dar-essalaam/ext

<p>Safety and Security</p>		<p>The Four Points by Sheraton Dar es Salaam New Africa is located right in the heart of Tanzania’s capital city, with views of Dar es Salaam Harbour and close to the Central Business District. Four Points by Sheraton Dar es Salaam New Africa Hotel is the premier Conference and meeting venue in Tanzania. Situated near the Zanzibar Ferry, the hotel is the perfect starting point for everyone who wants to explore the city and beyond. As in many big cities, please be aware of yourself and your surroundings and limit solo travel during nighttime hours.</p>
<p>TRAVEL</p>		
<p>Visas Guidelines</p>		<p>There are two options to obtain a Tanzanian Visa. These are the Online Visa Platform and On-Arrival Visa Platform. This means, that after the introduction of the Online Visa System, visas are no longer issued at the Embassies;</p> <p>The On-Arrival Visa facility may only be used by applicants whose nationalities do not fall under the Referral Visa category. Despite having the On Arrival Visa facility, it is recommended that all applicants use the online Visa platform;</p> <p>Applicants who wish to use on arrival Visa facility are required to counter-check if their nationalities are not in the list of countries which fall under the Referral Visa category;</p> <p>Online Visa applicants are advised to make their applications through the Official Tanzania Immigration website (www.immigration.go.tz) ONLY or directly through the link: visa.immigration.go.tz and Not through any other links;</p> <p>List Of Countries Whose Nationals Require Referral Visa. Afghanistan, Azerbaijan, Bangladesh, Chad, Djibouti, Eritrea, Equatorial Guinea, Iran, Iraq, Kazakhstan Republic, Kyrgyz Republic (Kyrgyzstan), Lebanon, Mali, Mauritania, Niger, Nigeria, Pakistan, Palestine, Senegal, Somalia, Sri Lanka, Sierra Leone, Syria, Tajikistan, Turkmenistan, Uzbekistan, Yemen. Stateless persons or persons with refugee status.</p> <p>For countries which require a Referral Visa, Visa applications will be done by the IHI events team. All other participants are requested to apply online. Payments can be made upon arrival.</p> <p>For those applying for an e-visa, please use this link: https://eservices.immigration.go.tz/visa/</p> <p>If you need a visa letter or require an invitation letter, please send an email to event@ihi.or.tz copy;</p>

		<p>rmohammad@ihi.or.tz; ssalum@ihi.or.tz; aherman@ihi.or.tz with the request and a copy of your passport details.</p>
<p>Important Information</p>	<p>Yellow Fever</p>	<ol style="list-style-type: none"> Travelers coming from countries which are NOT IN THE LIST BELOW will not be subjected to yellow fever screening and vaccination at points of entry upon arrival. Travelers coming from yellow fever endemic countries who will not produce proof of yellow fever vaccination may be refused entry or be vaccinated and kept under close public health observation for not more than 10 days. The cost of yellow fever vaccination is 50 USD for foreigners and Tsh. 30,000 for residents and East African community members. Government receipt shall be issued for any vaccination charges paid. <p>LIST OF COUNTRIES FOR WHICH VALID CERTIFICATE OF VACCINATION AGAINST YELLOW FEVER IS REQUIRED FOR ENTRY IN TANZANIA.</p> <ul style="list-style-type: none"> Countries from Africa Angola, Benin, Burkina Faso, Burundi, Cameroon, Central Africa Republic, Chad, Congo, Cote d'Ivoire, Democratic Republic of Congo, Equatorial Guinea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Kenya, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, South Sudan, Sudan, Togo, Uganda. Countries from South America Argentina, Bolivia (Plurinational State of), Brazil, Colombia (Including Galapagos Islands), Ecuador, French Guiana, Guyana, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Venezuela (Republic of Bolivarian). <p><i>Source WHO, International Health and Travel, Annex 1 Update as of 3 January 2023</i></p>
<p>Airport transport service</p>	<p>Julius Nyerere International Airport is 12 km from the hotel</p>	<p>Time: About 30 minutes travel time to/from the airport</p> <p>Distance: 7.45 miles/ 12KM Ground transportation service provider:</p> <ul style="list-style-type: none"> USD 35 – 45 per person travelling alone (one way) // USD 90-100 for a mini-van (cost can be shared)

		<p>if traveling more than one person).</p> <ul style="list-style-type: none"> • Participants are to bear their airport transfer costs payable in cash to the driver. • In case you do not find a driver waiting, contact Rukiyah Mohammad, Sheikha Salum or Adeline Herman their mobile number: are +255656676445, +255769016195 and +255754378735 respectively.
Registration	Day 1, Monday 26, August	Registration will take place between 7:00-9:00 am . Please register, and collect your name tag and place card from the events team outside of the main meeting room. The first session will begin promptly at 08:00 AM on Monday 26 August.
Transport	To neighboring locations for personal errands	You may choose to use hotel tax services or ask IHI events to organize at the participant's cost.
Special needs	Needs outside the normal program schedule	Participants should alert Rukiyah, Sheikha and Adeline in case of any special needs/allergies. Contact information is provided below.
Ethnicity night	On Tuesday 27 August, dinner will be an ethnic night	Participants are invited to carry an ethnic outfit from their ethnicity to wear for the ethnic dinner. This is with the spirit of us from different backgrounds, coming together to bridge research, innovation, and collaboration
Dress code	Tuesday 26 August – Thursday 28 August Evenings	Participants are invited to dress in outfits suitable for day-long meetings. Generally, Dar es Salaam is a hot city but participants are encouraged to carry some warm clothing, especially for the evenings.
ACTIVITIES		
Shopping	Aura Mall Salamanda Mall Mlimani City shopping mall	Shopping malls with a wide variety of shops that cater for international and local tastes in all social aspects; numerous banks.

Key Contact Details

IHI Events team: For the visa, transport and hotel-related needs, the meeting, agenda, and admin-related needs:

Rukiyah Mohammad - +255656676445

Sheikha Salum - +255769016195

Adeline Herman - +255754378735

If you cannot reach either Rukiyah, Sheikha or Adeline, try **Emmanuel Kaindoa** - +255 713 947 785.

11. Participants List

First Name	Last Name	Organization
Rukiyah	Mohammad	Ifakara Health Institute
Letus	Muyaga	Ifakara Health Institute
Emmanuel	Kaindoa	Ifakara Health Institute
Issa	Lyimo	Ifakara Health Institute
Yahaya	Simba	Ifakara Health Institute
Latifa	Sangali	Ebrahim Haji Hospital
Mohamed	Hassan	Kampala International University in Tanzania
Ayan	Ahmed	Health Improvement Project Zanzibar
Nargis	Noor	Kampala International University in Tanzania
Janice	Maige	Ifakara Health Institute
Flocas Trinité Thalès Aguomassi	Dansi Soclo	Viral Hemorrhagic Fevers Laboratory of Benin
Zahra	Aden	Ifakara Health Institute
Linda	Mukabana	Jomo Kenyatta University of Agriculture and Technology
Goodluck	Malika	Ifakara Health Institute
Winifrida	Mponzi	Ifakara Health Institute
Alphonse	Sikazwe	Niko Health Center
Abdallah	Kipekepeke	Ifakara Health Institute
Alfred	Simfukwe	Ifakara Health Institute

Jilly	Mseti	Ifakara Health Institute
Faraja	Lupogo	Benjamin Mkapa Hospital
Jacqueline	Mgaya	Ifakara Health Institute
Masudi	Suleiman	Ifakara Health Institute
Nhandi	Nyolobi	Ifakara Health Institute
Herieth	Mahenge	Ifakara Health Institute
Amos	Ngonzi	Ifakara Health Institute
Upendo	Kibona	Vijibweni Hospital
Jane	Moshi	Ifakara Health Institute
Mamadou Pathe	Barry	Malaria National Programme of Guinea
Mayeni	Fofana	Programme National de Lutte contre le Paludisme
Vincent	Corbel	Institut de Recherche pour le Développement / FIOCRUZ
Victoria	Franco	Institut de Recherche pour le Développement
Anne	Poinsignon	Institut de Recherche pour le Développement
Alemnesh Hailemariam	Bedasso	Ethiopian Public Health Institute (EPHI)
Paul-André	Calatayud	Institut de Recherche pour le Développement
Holly	Reichel	James Cook University
Syeda Tullu	Bukhari	ICIPE
Prosper	Chaki	Ifakara Health Institute
Eslam	Moradi-Asl	Ardabil University of Medical Sciences
Sandra	Ateutchia Ngouanet	International Institute of Tropical Agriculture Benin

Mabenga	Peter	National Institute for Medical Research
Angelique	Ingabire	University of Montreal
Yin	Qing	Yorkool
Kaushal	Mahto	National Institute of Tuberculosis and Respiratory Diseases
K. Roch	Dabire	Institut de Recherche en Science de la Santé
Amruthraj	Radhakrishnan	Ministry of Health and Family Welfare
Moshi Moshi	Shabani	Ifakara Health Institute
Keller Alphonse	Konkon	Centre de Recherche Entomologique de Cotonou
Ali	Toilibou	Programme National de Lutte Contre le Paludisme, Comores
Zoe	Zhang	Tianjin Yorkool
Zakaria	Seidu	University for Development Studies
Frederic	Schmitt	Envu
Martin	Mayanja	Uganda Virus Research Institute
Aminu	Abdullahi	Modibbo Adama University, Yola
Tumaini	Makole	Pharmacy Council of Tanzania
Nilsa E	González Britez	Universidad Nacional de Asunción
Arnold	Mmbando	Ifakara Health Institute
Bertille Carine	Theno Djapoum	University of Yaoundé I
Naomi	Serbantez	U.S. President's Malaria Initiative, USAID
Isabel	Aika	University of Benin
Borel	Tchamen	University of Yaoundé I

Benjamin	Kamala	Johns Hopkins Center for Communication Programs
Florence	Fournet	Institut de Recherche pour le Développement
Samwel	Okello	Vector Health International
Elizabeth	Kasagama	Swiss Tropical and Public Health Institute
Oluwaseun	Adesoye	Nigeria Institute of Medical Research
Fu	Haili	Tianjin Yorkool
Raman	Velayudhan	World Health Organization
Ghiorghis	Ghenbot	National Institutes of Health
Halfan	Ngowo	Ifakara Health Institute
Doris Wangari	Ndegwa	Science for Africa Foundation
Pie	Müller	Swiss Tropical and Public Health Institute
Bart	Knols	K&S Consulting
Rosemary	Lees	Innovation 2 Impact
Márcia	Lenzi	Fundação Oswaldo Cruz
Juan	Bustillos	Instituto Nacional de Investigación en Salud Pública, Ecuador
ATIMI	Atinga	Modibbo Adama University Yola Adamawa State Nigeria
Duncan Kobia	Athinya	Vestergaard
Enric	Pou Robert	Consejo Superior de Investigaciones Científicas
Salumu	Kitika	Pwani Medication Awareness Organization
Yusuf	Mohammed	Gidan Kano Multispecialist Hospital Limited
Kolade	Ibrahim	University of Ibadan, Ibadan

Leonia	Komba	Kairuki University
Mary	Chacky	COBS Corporation Limited
Fabien Zimbombe	Vulu	Tropical Medicine Department, University of Kinshasa
Tobias	Suter	Swiss Tropical and Public Health Institute
Silvan	Hälg	Swiss Tropical and Public Health Institute
Luis Filipe	Lopes	Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa
Mariela	Mosquera	The Global Fund / Chemonics
Thierry	Bobanga	Université de Kinshasa
José Bento	Lima	Fundação Oswaldo Cruz
Laetitia	Leroy	Clarke
Rose	Nakasi	Makerere AI Health Lab
Ruth	Maina	Ministry of Health
Maulid Issa	Kassim	Zanzibar Malaria Elimination Program
Samwel Paul	Mziray	Tanzania Biotech Products Limited
Shija Joseph	Shija	Zanzibar Malaria Elimination Program
Makame	Haji	Zanzibar Malaria Elimination Program
Christine	Kamau - Mwangi	Envu
Mona	Sharififard	Ahvaz Jundishapur University of Medical Science
Amy	Morrison	University of California, Davis
Aklilu	Belay	International Centre of Insect Physiology and Ecology
Gerry	Killeen	University College Cork

Astrid	Schuhbauer	Biogents AG
Tim	Hellerberg	Envu
Evelyn	Olanga	Clinton Health Access Initiative
Julien	Zahouli	Centre Suisse de Recherches Scientifiques en Côte d'Ivoire
Audrey	Lenhart	U.S. Centers for Disease Control and Prevention
Basiliana	Emidi	National Institute for Medical Research, Tanzania
Andy	Asafu-Adjaye	Noguchi Memorial, Institute for Medical Research
Dismas	Kamande	Ifakara Health Institute
Ole	Skovmand	MCC47 Consulting Company
Jeremie	Gilles	World Mosquito Program
Jennifer	Armistead	U.S. Agency for International Development
Dickson	Msaky	Ifakara Health Institute
David	Tchouassi	International Centre of Insect Physiology and Ecology
Augustino	Mmbaga	Ifakara Health Institute
Sperancia	Coelestine	Ifakara Health Institute
Doreen	Siria	Ifakara Health Institute
Debora Charles	Kajeguka	Kilimanjaro Christian Medical University College
Zoukifilou	Sare Dabou	Ecole Polytechnique d'Abomey Calavi, Université d'Abomey-Calavi
Fadhila	Kihwele	ifakara Health Instite
Jewelna	Akorli	Noguchi Memorial Institute for Medical Research, University of Ghana
Stephen	Simbeye	PORLAG - Ifakara Tc

Oscar	Mbiso	Ifakara Town Council
Simoni	Twaha	Ifakara Health Institute
Tom	Mascari	SC Johnson
Ademir	Martins	Fundação Oswaldo Cruz
Jérémy	Bouyer	Centre de coopération internationale en recherche agronomique pour le développement
Léa	Paré	Institut de Recherche en Sciences de la Santé
Heather	Ferguson	Glasgow University
Javier	Lezaun	University of Oxford
Marta	Maia	Kenya Medical Research Institute
Erasto	Rite	Town Medical Officer
Nicodemus	Govella	Population Services International
Samuel	Kweku Dadzie	Noguchi Memorial Institute for Medical Research
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Jane	Machange	Ifakara Health Institute
Masudi	Suleiman	Ifakara Health Institute
Athanase	Badolo	Université Joseph Ki-Zerbo
Amri	Said Abas	Ifakara Health Institute
Ana Cristina	Bahia Nascimento	Universidade Federal do Rio de Janeiro
Jacklin	Franklin Moshia	National Institute for Medical Research, Mwanza Centre
Rakiya	Jafaru	Nigerian Defence Academy
Frank	Tenywa	Ifakara Health Institute

Ashine	Temesgen	Armauer Hansen Research Institute
El Hadji	Amadou Niang	Pan-Africa Mosquito Control Association
Meghnath	Dhimal	Nepal Health Research Council
Michael	Okal	Vector Health International/AtoZ Textiles Ltd.
Yeromin	Mlacha	Ifakara Health Institute
Honorati	Masanja	Ifakara Health Institute
Ally	Olotu	Ifakara Health Institute
Felista	Kiwelu	St. Francis Hospital
Dickson	Wilson	Ifakara Health Institute
Sheikha	Salum	Ifakara Health Institute
Adeline	Herman	Ifakara Health Institute
Thabit	Gunga	Ifakara Health Institute
Naomi	Urio	Ifakara Health Institute
Jubilate	Bernard	Ministry of Health, Tanzania - National Malaria Control program
Frank	Chacky	Ministry of Health, Tanzania - National Malaria Control program
Sijenunu	Aaron	Ministry of Health, Tanzania - National Malaria Control program
Charles	Mwalimu	Ministry of Health, Tanzania - National Malaria Control program
Samwel	Lazaro	Ministry of Health, Tanzania - National Malaria Control program
Dominick	Kyobya	Kilombero districts
Anitha	Filbert	University of Dar es Salaam
Zawadi Mageni	Mboma	Ifakara Health Institute

Mgeni	Mohammed Tambwe	Ifakara Health Institute
Daniel	Msellemu	Ifakara Health Institute
Irene	Moshi	Ifakara Health Institute
Brian	Tarimo	Ifakara Health Institute
Dunstan	Bishanga	Ifakara Health Institute
Luc	Blanco	French Embassy in Tanzania
Ahmad Mohamed	Makuwani	Ministry of Health, Tanzania
Betwel	Msugupakulya	Ifakara Health Institute
Ruth	Shirima	Ifakara Health Institute
Omary	Kimwaga	Ifakara Health Institute
Olukayode	Odufuwa	Ifakara Health Institute
Saburi	Seif	Ifakara Health Institute
Paulo	Ribolla	Universidade Estadual Paulista
Kilongi	Kayera	Ifakara Health Institute
Msafiri	Lucas	Ifakara Health Institute
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Linda	Nsababera	Makerere University
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Astrid	Schuhbauer	Biogents AG
Ismail	Nambungu	Ifakara Health Institute
Jenny	Stevenson	Swiss Tropical and Public Health Institute
Anand	Samiappan	VKA Polymers
Yin	Qing	Yorkool International Limited
Selemani	Mmbaga	Ifakara Health Institute
Kenneth	Ng'ambi	Mzuzu University
Idris	Mchola	Ifakara Health Institute
Polius	Pinda	Ifakara Health Institute
Eric	Ochomo	Kenya Medical Research Institute

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