

## 2022 ANNUAL NETWORK MEETING

TUESDAY 08 NOVEMBER 2022

Venue – Mnarani Club Resort

Time	Activity
10.15	<i>Registration</i>
10.30	<b>Welcome/Network information</b> <span style="float: right;"><b>Chair: Professor Adam Cunningham</b></span> <i>Professor Cal MacLennan, Director of BactiVac &amp; Professor Adam Cunningham, Co-Director of BactiVac, UK</i>
10.45	<b>KEMRI-Wellcome Opening Address</b> <i>Professor Philip Bejon, Executive Director &amp; Dr Joseph Mwangangi, KEMRI Deputy Director, CGMR-C, KEMRI-Wellcome Trust Research Programme, Kenya</i>
11.00	<b>Update on development of recombinant glycoconjugate vaccines</b> <i>Professor Brendan Wren, Professor of Vaccinology, London School of Hygiene and Tropical Medicine, UK</i>
11.30	<b>Development of a porin-based anti-Salmonella vaccine: from prototype to clinical testing and manufacturing scaling up</b> <i>Professor Constantino López-Macías, Professor of Immunology, Mexican Social Security Institute, Mexico</i>
12.00	<i>Lunch</i> <span style="float: right;"><b>Chairs: Professor Alex Richter &amp; Professor Cal MacLennan</b></span>
13.30	<b>Practical and Ethical Considerations in Clinical Trials in Kenya</b> <i>Dr Mainga Hamaluba, Chair Clinical Research, KEMRI-Wellcome Trust Research Programme, Kenya</i> <i>Dr Dorcas Kamuya, Chair Health Systems Research and Ethics, KEMRI-Wellcome Trust Research Programme, Kenya</i>
14.00	<b>Shigella Vaccine Studies in Kenya: Taking the High Road</b> <i>Dr Josphat Kosgei, Principal Research Investigator &amp; Head, Regulatory Affairs, Kenya Medical Research Institute/ US Medical Research Directorate, Africa/Kenya</i>
14.30	<b>Shigella CHIM in Kilifi: Opportunities and Challenges</b> <i>Professor Melissa Kapulu, Principal Research Investigator, Dept of Biosciences, KEMRI-Wellcome Trust Research Programme, Kenya</i>
15.00	<i>Refreshments</i>
15.30	<b>Melioidosis and Vaccine Development</b> <i>Professor Susanna Dunachie, Professor of Infectious Diseases and NIHR Global Research Professor, University of Oxford, UK</i>
16.00	<b>Immune Response to Vaccination</b> <i>Professor Adam Cunningham, Co-Director of BactiVac; Professor of Functional Immunity, University of Birmingham, UK</i>
16.30	<b>Engaging Diverse Communities and Public in Kenya</b> <i>Ms Noni Mumba, Head of Engagement, KEMRI-Wellcome Trust Research Programme, Kenya</i>
17.00	Close of day programme
19.00	<b>Conference Dinner – Mnarani Club Resort Dining Room</b>

*The programme is subject to change***KEMRI | Wellcome Trust**

## WEDNESDAY 09 NOVEMBER 2022

- Time**    **Activity**    **Chairs: Dr Elizabeth Klemm**
- 09.00    **BactiVac Network Opening Address**  
*Professor Richard Adegbola, Consultant & Research Professor, Nigerian Institute of Medical Research, Nigeria  
BactiVac Network Advisory Board Chair*
- 09.15    **Pneumococcus in Asia, past and present**  
*Professor Samir Saha, Executive Director, Child Health Research Foundation, Bangladesh*
- 09.45    **Vaccines Against AMR**  
*Professor Cal MacLennan, Director of BactiVac, Senior Program Officer, Bacterial Vaccines, Global Health - Enteric & Diarrheal Diseases, Bill & Melinda Gates Foundation, USA*
- 10.15    **Why Microbiology in LMICs is Important for Next Generation Interventions**  
*Professor Stephen Baker, Director of Research, University of Cambridge, UK*
- 10.45    *Refreshments*
- 11.15    **Cholera Genomics: Lessons for Vaccines and Diagnostics**  
*Dr Ankur Mutreja, Honorary Senior Fellow, Department of Medicine, University of Cambridge, UK*
- 11.45    **Deploying the oral cholera vaccine: 10 years of progress and challenges**  
*Dr Tanya Shewchuk, Senior Program Officer, Immunization Team, Bill & Melinda Gates Foundation, UK*
- 12.15    **Bacterial livestock vaccines in sub-Saharan Africa – with a focus on CBPP and CCPP**  
*Dr Elise Schieck, Scientist, International Livestock Research Institute, Kenya*
- 12.45    *Lunch*    **Chairs: Dr Francesca Micoli**
- 14.00    **ORAL PRESENTATIONS – POSTERS**
- 14.00    **Characterisation of the binding of anti-*Salmonella* Typhimurium OmpD antibodies to the bacterial surface**  
*Dr Marisol Perez-Toledo, Research Fellow, University of Birmingham, UK*
- 14.15    **An immunoglobulin capture assay (ICA) for the isolation of pathogen-specific plasmablasts using whole bacterial cells as probes**  
*Dr Fadil Bidmos, MRC Career Development Fellow, Imperial College London, UK*
- 14.30    **Screening Outer-Membrane Vesicle derived polyclonal antibodies against a representative collection of *Klebsiella pneumoniae* using high content imaging**  
*Mr Peter Gallagher, PhD Student, University of Cambridge, UK*
- 14.45    **Combined particulate adjuvant systems based on porins: *in vivo* evaluations**  
*Professor Sevda Senel, Professor of Pharmaceutical Technology, Hacettepe University, Turkey*
- 15.00    *Speed dating instructions – Refreshments in Mnarani Club not meeting room*
- 15.30    **Speed dating session**
- 16.30    **Poster viewing / networking with tea & coffee**
- 17.00    **Close of day programme**
- 19.00    **Dinner – BBQ Mnarani Club Resort Beach**

**THURSDAY 10 NOVEMBER 2022**

Chairs: Dr Francesca Micoli &amp; Professor Cal MacLennan

- | Time  | Activity  |
|-------|---|
| 09.00 | <b>Leveraging a cutting-edge laboratory platform in Africa to inform pathogen vaccine design</b><br><i>Professor Isabella Oyier, Head of Bioscience, KEMRI-Wellcome Trust Research Programme, Kenya</i>   |
| 09.30 | <b>Pneumococcal epidemiology in the context of long-term pneumococcal conjugate vaccine use in Kenya</b><br><i>Dr E. Wangeci Kagucia, Mid-Career Research Fellow, Dept of Epidemiology &amp; Demography, KEMRI-Wellcome Trust Research Programme, Kenya</i>   |
| 10.00 | <b>Beyond trial site: building sustainable clinical research capacity in Africa</b><br><i>Dr Sam Kinyanjui, Head of Training &amp; Capacity Building, KEMRI-Wellcome Trust Research Programme, Kenya, Director, Initiative to Develop African Research Leaders, Associate Professor, Nuffield Department of Medicine, Oxford University, UK</i> |
| 10.30 | <i>Refreshments</i>   |
| 11.00 | <b>Value of Vaccines in One Health</b><br><i>Dr Arshnee Moodley, Team Leader-Antimicrobial Resistance, International Livestock Research Institute, Kenya</i>  |
| 11.30 | <b>Immunity to Enteric Pathogens: Focus on Shigella Vaccine Development</b><br><i>Dr Robert Kaminski, Principal Consultant II, Latham BioPharm Group, USA Shigella CHIM in Kilifi:</i>  |
| 12.00 | <b>The Ongoing Journey of a Shigella Bioconjugate Vaccine</b><br><i>Dr Cristina Alaimo, Director of Clinical &amp; Regulatory Affairs, LimmaTech Biologics, Switzerland</i>   |
| 12.30 | <i>Lunch</i> <span style="float: right;">Chairs: Professor Richard Adegbola &amp; Professor Stephen Baker</span>  |
| 13.30 | <b>BACTIVAC FUNDED CATALYST PROJECT PRESENTATIONS</b>   |
| 13.30 | <b>Optimisation of novel mucosal vaccines to prevent bacterial diseases of Tilapia (<i>Oreochromis niloticus</i>)</b><br><i>Dr Rowena Mitchell, Biological Assessor, Veterinary Medicines Directorate, UK</i>   |
| 13.45 | <b>Towards the production of “Shigella plus” a low-cost recombinant Shigella glycoconjugate vaccine</b><br><i>Professor Brendan Wren, Professor of Vaccinology, London School of Hygiene and Tropical Medicine, UK</i>  |
| 14.00 | <b>Prevalence and serotype distribution of group B Streptococcus in León, Nicaragua</b><br><i>Dr Nadja Vielot, Assistant Professor, UNC Family Medicine, USA</i>  |
| 14.15 | <b>Maternal vaccination to protect offspring from pneumococcal infection</b><br><i>Dr William Horsnell, Associate Professor, University of Cape Town, South Africa</i>  |
| 14.30 | <i>Refreshments</i>   |

*Continued.....*

Time Activity

## THURSDAY 10 NOVEMBER 2022 (Continued)

Chairs: Professor Richard Adegbola & Professor Stephen Baker

- 15.00 **Using seroepidemiology of non-Typhoidal Salmonella (NTS) in Kenya to understand changes in risks of invasion and transmission and direct the clinical development programme for vaccines against NTS**  
*Dr Esther Muthumbi, Epidemiologist, KEMRI, Kenya*
- 15.15 **Assessing coverage, correlate of protection and possible impact in colonization by multidrug-resistant bacteria of future GBS vaccines in a Brazilian population of pregnant women**  
*Dr Tatiana Pinto, Associate Professor, University of Rio de Janeiro, Brazil*
- 15.30 **Improving the production of a multivalent experimental vaccine against the diseases induced by Salmonella enterica**  
*Professor Constantino López-Macías, Professor of Immunology, Mexican Social Security Institute, Mexico*
- 15.45 **BactiVac: Value of the Network**  
*Dr Jo Dean, BactiVac Operations Manager, BactiVac Network, UK*
- 16.00 **Closing remarks for conference**  
*Professor Cal MacLennan, Director of BactiVac, &  
Professor Adam Cunningham, Co-Director of BactiVac, UK*
- 16.30 *Close of programme*
- 19.00 **Dinner**

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