

## 2022 ANNUAL NETWORK MEETING

TUESDAY 08 NOVEMBER 2022

Venue – Mnarani Club Resort

- | Time  | Activity   |
|-------|--|
| 09.00 | <i>Registration</i>  |
| 09.15 | <b>Welcome/Network information</b> <span style="float: right;"><b>Chair: Professor Cal MacLennan</b></span><br><i>Professor Cal MacLennan, Director of BactiVac &amp; Professor Adam Cunningham, Co-Director of BactiVac, UK</i>   |
| 09.30 | <b>BactiVac Network Opening Address</b><br><i>Professor Richard Adegbola, Consultant &amp; Research Professor, Nigerian Institute of Medical Research, Nigeria<br/>BactiVac Network Advisory Board Chair</i>   |
| 09.45 | <b>KEMRI-Wellcome Opening Address</b><br><i>Professor Philip Bejon, Executive Director &amp; Dr Joseph Mwangangi, KEMRI Deputy Director, CGMR-C, KEMRI-Wellcome Trust Research Programme, Kenya</i>  |
| 10.00 | <b>Practical and Ethical Considerations in Clinical Trials in Kenya</b><br><i>Dr Mainga Hamaluba, Chair Clinical Research, KEMRI-Wellcome Trust Research Programme, Kenya<br/>Dr Dorcas Kamuya, Chair Health Systems Research and Ethics, KEMRI-Wellcome Trust Research Programme, Kenya</i> |
| 10.30 | <i>Refreshments</i>  |
| 11.05 | <b>Cholera Genomics: Lessons for Vaccines and Diagnostics</b><br><i>Dr Ankur Mutreja, Honorary Senior Fellow, Department of Medicine, University of Cambridge, UK</i>  |
| 11.35 | <b>Deploying the oral cholera vaccine: 10 years of progress and challenges</b><br><i>Dr Tanya Shewchuk, Senior Program Officer, Immunization Team, Bill &amp; Melinda Gates Foundation, UK</i>   |
| 12.05 | <i>Lunch</i>   |
|       | <b>Chairs: Professor Alex Richter &amp; Professor Adam Cunningham</b>  |
| 13.15 | <b>Melioidosis and Vaccine Development</b><br><i>Professor Susanna Dunachie, Professor of Infectious Diseases and NIHR Global Research Professor, University of Oxford, UK</i>   |
| 13.45 | <b>Immune Response to Vaccination</b><br><i>Professor Adam Cunningham, Co-Director of BactiVac; Professor of Functional Immunity, University of Birmingham, UK</i>   |
| 14.15 | <b>Engaging Diverse Communities and Public in Kenya</b><br><i>Ms Noni Mumba, Head of Engagement, KEMRI-Wellcome Trust Research Programme, Kenya</i>  |
| 14.25 | <i>Refreshments</i>  |
| 15.15 | <b>Speed dating session</b>  |
| 16.30 | <b>Poster viewing / networking with tea &amp; coffee</b>   |
| 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: Professor Faith Osier & Dr Elizabeth Klemm**
- 09.00      **Pneumococcus in Asia, past and present**  
*Professor Samir Saha, Executive Director, Child Health Research Foundation, Bangladesh*
- 09.30      **Vaccine development for prevention of bacterial STIs**  
*Professor Sinead Delany-Moretlwe, Director of Research, University of Witwatersrand, South Africa*
- 10.00      **Vaccines Against AMR**  
*Professor Cal MacLennan, Director of BactiVac, Senior Program Officer, Bacterial Vaccines, Global Health - Enteric & Diarrheal Diseases, Bill & Melinda Gates Foundation, USA*
- 10.30      *Refreshments*
- 11.00      **Building vaccine capacity in Africa: A technology platform approach**  
*Dr Ebrahim Mohamed, AVMI, Secretariat - Technical Workstream Co-Lead| BIOVAC, S&I Group Leader, South Africa*
- 11.30      **Why Microbiology in LMICs is Important for Next Generation Interventions**  
*Professor Stephen Baker, Director of Research, University of Cambridge, UK*
- 12.00      **ORAL PRESENTATIONS – POSTERS**
- 12.00      **Characterisation of the binding of anti-*Salmonella* Typhimurium OmpD antibodies to the bacterial surface**  
*Dr Marisol Perez-Toledo, Research Fellow, University of Birmingham, UK*
- 12.15      **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*
- 12.30      **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*
- 12.45      **Combined particulate adjuvant systems based on porins: *in vivo* evaluations**  
*Professor Sevda Senel, Professor of Pharmaceutical Technology, Hacettepe University, Turkey*
- 13.00      *Lunch*      **Chairs: Dr Francesca Micoli & Dr Jeremy Salt**
- 14.15      **Shigella Vaccine Studies in Kenya: Taking the High Road**  
*Dr Josphat Kosgei, Principal Research Investigator & Head, Regulatory Affairs, Kenya Medical Research Institute/ US Medical Research Directorate, Africa/Kenya*
- 14.45      **The Ongoing Journey of a Shigella Bioconjugate Vaccine**  
*Dr Cristina Alaimo, Director of Clinical & Regulatory Affairs, LimmaTech Biologics, Switzerland*
- 15.15      **Immunity to Enteric Pathogens: Focus on Shigella Vaccine Development**  
*Dr Robert Kaminski, Principal Consultant II, Latham BioPharm Group, USA*
- 15.45      *Refreshments*
- 16.00      **Bacterial livestock vaccines in sub-Saharan Africa – with a focus on CBPP and CCPP**  
*Dr Elise Schieck, Scientist, International Livestock Research Institute, Kenya*
- 16.30      **Bacteraemia in African Neonates and Children**  
*Professor Jay Berkley, Professor of Paediatric Infectious Diseases, KEMRI-Wellcome Trust Research Programme, Kenya*
- 17.00      **Close of day programme**
- 19.00      **Dinner – BBQ Mnarani Club Resort Beach**

THURSDAY 10 NOVEMBER 2022

Chairs: Dr Jeremy Salt &amp; Dr Francesca Micoli

- | 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>Shigella CHIM in Kilifi: Opportunities and Challenges</b><br><i>Professor Melissa Kapulu, Principal Research Investigator, Dept of Biosciences, KEMRI-Wellcome Trust Research Programme, Kenya</i>   |

Chairs: Professor Richard Adegbola &amp; Professor Stephen Baker

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| 12.00 | <b>BACTIVAC FUNDED CATALYST PROJECT PRESENTATIONS</b>  |
| 12.00 | <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>  |
| 12.15 | <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>   |
| 12.30 | <i>Lunch</i>   |
| 14.00 | <b>The generation of novel GBS conjugate vaccines using GBS common membrane proteins and GBS capsular polysaccharides</b><br><i>Dr Seanette Wilson, Senior Project Manager, The Biovac Institute, South Africa</i>   |
| 14.15 | <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>   |
| 14.30 | <b>Maternal vaccination to protect offspring from pneumococcal infection</b><br><i>Dr William Horsnell, Associate Professor, University of Cape Town, South Africa</i>   |
| 14.45 | <b>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</b><br><i>Dr Esther Muthumbi, Epidemiologist, KEMRI, Kenya</i> |

*Continued.....*

Time Activity

## THURSDAY 10 NOVEMBER 2022 (Continued)

Chairs: Professor Richard Adegbola & Professor Stephen Baker

15.00 Refreshments

15.30 **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*

15.45 **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*

16.00 **BactiVac: Value of the Network**  
*Dr Jo Dean, BactiVac Operations Manager, BactiVac Network, UK*

16.15 **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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