

AGENDA

10th INTERNATIONAL
CONFERENCE ON **TYPHOID**
& OTHER INVASIVE SALMONELLOSES 

TUESDAY, APRIL 4

08:30 – 08:35	Welcome Remarks	Bruce Gellin, Sabin Vaccine Institute
08:35 – 08:40	Conference Opening	Denise Garrett, Sabin Vaccine Institute
08:40 – 10:10	Body of Evidence: Updates on Global Disease Burden PLENARY SESSION MODERATED BY: Thomas Cherian (World Health Organization) & Melita Gordon (University of Liverpool)	
08:40 – 08:55	Looking to the Future: Control of Typhoid in the Next Decade	Anita Zaidi, Bill & Melinda Gates Foundation
08:55 – 09:10	Progress in Typhoid Fever Epidemiology	John Crump, University of Otago
09:10 – 09:25	Incidence, Presentation and Outcomes of <i>Salmonella</i> Bacteraemia Among Young Children in Sub-Saharan Africa: MAL055 RTS,S-AS01 <i>Salmonella</i> Ancillary Study	Cal MacLennan on behalf of the MAL055 RTS,S-AS01 <i>Salmonella</i> Ancillary Study
09:25 – 09:40	Enteric Fever Among Outbreaks in Africa: Same Old Foe but Emerging New Challenges in Management	Sam Kariuki, Kenya Medical Research Institute
09:40 – 09:55	Clades of <i>Salmonella</i> Associated with Epidemics of Invasive <i>Salmonella</i> Disease	Nick Feasey, Liverpool School of Tropical Medicine
09:55 – 10:10	QUESTIONS AND DISCUSSION	
10:10 – 10:30	Coffee Break and Posters	
10:30 – 12:30	The Devil you Know: Diagnosing and Detecting Enteric Fever ORAL ABSTRACT SESSION MODERATED BY: Gagandeep Kang (Christian Medical College, Vellore) & Hubert Endtz (Fondation Mérieux)	
10:30 – 10:45	Evaluation of a New Real-Time PCR to Identify <i>S. Typhi</i> , <i>S. Paratyphi A</i> and <i>S. spp.</i> from Patients with Fever in Bangladesh	Stephane Pouzol, Fondation Mérieux
10:45 – 11:00	Identification of a New Serodiagnostic Signature of Acute Typhoid Fever Using <i>Salmonella</i> Proteome Arrays	Thomas Darton, University of Oxford
11:00 – 11:15	Antigen Discovery for Improved Diagnosis of Invasive Salmonellosis by Targeted Proteomics	Sara Saleh, Institute of Tropical Medicine, Antwerp
11:15 – 11:30	Carriage of <i>Salmonella</i> Typhi Among Vendors in Two Kampala Markets	Mark Bumano, Makerere University College of Health Sciences
11:30 – 11:45	Typhoid Outbreak Caused by Drinks Made from Contaminated Underground Water Sources in Kampala, Uganda, January-March, 2015	David Oguttu, Uganda Public Health Fellowship Program
11:45 – 12:00	<i>Salmonella</i> Typhi Bloodstream Infections Among Infants and Children, Korogwe District Hospital, Tanzania	John Lusingu, National Institute for Medical Research
12:00 – 12:15	Typhoid Fever in Santiago, Chile: Modern Insights Where Historical Data Meet Mathematical Modeling	Jillian Gauld, Institute for Disease Modeling
12:15 – 12:30	<i>Salmonella</i> Typhi Bactericidal Antibody Activity is a Correlate of Disease Severity, but Not Protection Against Typhoid Fever	Andrew Pollard, University of Oxford
12:30 – 13:30	Lunch and Posters	

13:30 – 15:00	The Right Shot: Vaccine Session I ORAL ABSTRACT SESSION MODERATED BY: John Clemens (International Centre for Diarrhoeal Disease Research, Bangladesh) & Laura Martin (GSK Vaccines Institute for Global Health)	
13:30 – 13:45	Creating a Sustainable Vaccine Landscape: Overcoming Barriers to Vaccine Development and Speed to Market	Vinita Vishwanarayan, Clinton Health Access Initiative
13:45 – 14:00	Comparison of Strategies and Thresholds for the Vi Conjugate Vaccine Against Typhoid Fever: A Cost-Effectiveness Modeling Study	Nathan Lo, Stanford University
14:00 – 14:15	Development of New Generation Monovalent Typhoid Conjugate Vaccine: Vi-CRM₁₉₇	Akshay Goel, Biological E
14:15 – 14:30	Live Oral Typhoid Vaccine Ty21a Elicited Cross-Reactive Multifunctional IL-17A Producing T Cell Responses Against <i>Salmonella enterica</i> Serovars In Humans	Rezwanul Wahid, University of Maryland School of Medicine
14:30 – 14:45	Exploring <i>S. Typhi</i>-Specific HLA-E-Restricted Immune Responses in Pediatric and Adult Ty21a Recipients Using Mass Cytometry	Mark Rudolph, University of Maryland School of Medicine
14:45 – 15:00	Whole Genome Sequence Analysis of <i>Salmonella</i> Typhi Isolated in Thailand Before and After the Introduction of a National Immunisation Program	Zoe Dyson, University of Melbourne
15:00 – 15:30	Coffee Break and Posters	
15:30 – 17:45	Spotlight on Africa and Asia: Enteric Fever Surveillance SYMPOSIUM SESSION CHAIRED BY: Rob Breiman (Emory University) & Megan Carey (Bill & Melinda Gates Foundation)	
15:30 – 15:45	Epidemiology and Disease Burden of Typhoid Fever and iNTS Disease in Sub-Saharan Africa	Florian Marks, International Vaccine Institute
15:45 – 16:00	The Severe Typhoid Fever Surveillance in Africa (SETA) Program: An Overview	Justin Im, International Vaccine Institute
16:00 – 16:15	SETA: The First Data from the Six African Sites	Se Eun Park, International Vaccine Institute
16:15 – 16:30	African Risk Factor Prediction Model and Implications for Vaccination Strategies	Jong-Hoon Kim, International Vaccine Institute
16:30 – 16:45	At a Glance: The Surveillance for Enteric Fever in Asia Project (SEAP)	Denise Garrett, Coalition against Typhoid, Sabin Vaccine Institute
16:45 – 17:00	Approaches to Community Surveys for Typhoid Burden Estimation: Experience from SEAP	Alexander Yu, Stanford University
17:00 – 17:15	<i>Salmonella</i> Typhi and Paratyphi in Bangladesh and Their Antimicrobial Resistance	Samir Saha, Child Health Research Foundation
17:15 – 17:30	Looking Back While Moving Forward with Enteric Fever Surveillance in Pakistan	Farah Qamar, Aga Khan University
17:30 – 17:45	A Retrospective Review of Existing Hospital-Based Data on Enteric Fever in India	Dipika Sur, Translational Health Science and Technology Institute
17:45 – 18:00	Break	
18:00 – 19:30	Reception with Featured Remarks from Honorable Dr. Jane Aceng, Minister of Health, Uganda	

WEDNESDAY, APRIL 5

Staying One Step Ahead: Prevention and Control		
08:30 – 10:00	PLENARY SESSION MODERATED BY: Jan Jacobs (Institute of Tropical Medicine Antwerp) & Buddha Basnyat (Oxford University Clinical Research Unit-Nepal)	
08:30 – 08:45	Development and Challenges in Developing a Sensitive Diagnostic Test for Typhoid Fever	Firdausi Qadri, International Centre for Diarrhoeal Disease and Research, Bangladesh
08:45 – 09:00	Vaccine and non-Vaccine Measures for Prevention and Control of Typhoid Fever	Eric Mintz, Centers for Disease Control and Prevention
09:00 – 09:15	Gaps in Knowledge in Therapeutics and Treatment	Chris Parry, Liverpool School of Tropical Medicine
09:15 – 09:30	The SaniPath Approach to Fecal Exposure Assessment and Application to Typhoid Transmission	Christine Moe, Emory University
09:30 – 09:45	A Broad-Spectrum Vaccine to Prevent Invasive <i>Salmonella</i> Disease in Sub-Saharan Africa	Myron Levine, University of Maryland School of Medicine
09:45 – 10:00	QUESTIONS AND DISCUSSION	
10:00 – 10:30	Coffee Break and Posters	
Crush the Resistance: Antimicrobial Resistance Session		
10:30 – 12:30	ORAL ABSTRACT SESSION MODERATED BY: Ken Simiyu (University of Maryland School of Medicine) & Gordon Dougan (Wellcome Trust Sanger Institute)	
10:30 – 10:45	Antibiogram Pattern, Mechanism of Fluoroquinolone Resistance and Seasonality of <i>Salmonella</i> Serotypes in a North Indian Tertiary Care Hospital	Rajni Gaiind, Vardhman Mahavir Medical College & Safdarjung Hospital
10:45 – 11:00	The Impact of Antimicrobial Treatment on Pathogen Behavior at the Subpopulation Level During Invasive <i>Salmonella</i> Infections	Pietro Mastroeni, University of Cambridge
11:00 – 11:15	Changing Trends in Antibiograms of <i>Salmonella enterica</i> in Pediatric Population — A Hospital Based Study	Bhaskar Shenoy, Manipal Hospital, Bangalore, India
11:15 – 11:30	Health Outcomes from Multidrug-Resistant <i>Salmonella</i> in High-Income Countries: A Systematic Review	Andrea Parisi, The Australian National University
11:30 – 11:45	Multidrug Resistant Non-Typhoidal <i>Salmonella</i> Hotspots as Targets for Vaccine Use in Management	Sam Kariuki, Kenya Medical Research Institute
11:45 – 12:00	Whole Genome Sequencing for Identification, Drug Resistance, Detection and Epidemiology of <i>Salmonella</i> : A Revolution in Public Health Microbiology	Satheesh Nair, Public Health England
12:00 – 12:15	Emergence of a New <i>Salmonella</i> Typhimurium ST313 Lineage in D.R. Congo with Increased Antibiotic Resistance and Indications for Further Host Adaptation	Sandra Van Puyvelde, Institute of Tropical Medicine Antwerp
12:15 – 12:30	Antimicrobial Pre-Treatment and Blood Culture Positivity Rates for <i>S. Typhi</i> , iNTS and Other Invasive Bacterial Pathogens	Ondari D. Mogeni, International Vaccine Institute
12:30 – 13:30	Lunch and Posters	

13:30 – 15:00	The Right Shot: Vaccine Session II ORAL ABSTRACT SESSION MODERATED BY: Chisomo Msefula (University of Malawi) & Rob Heyderman (University College London)	
13:30 – 13:45	Pre-clinical Immunogenicity of Typhoid (Vi-CRM ₁₉₇), Paratyphoid (O:2- CRM ₁₉₇) and Bivalent (Vi-CRM ₁₉₇ +O:2- CRM ₁₉₇) Conjugate Vaccine	Ravi P.N. Mishra, Biological E
13:45 – 14:00	Development of a Sustainable and Effective Vaccine Against Invasive Non-Typhoidal Salmonellosis (iNTS) in Africa	Gianluca Breggi, Fondazione Achille Sclavo
14:00 – 14:15	Development of a Vaccine Based on GMMA Against Invasive Non-Typhoidal <i>Salmonella</i> Disease in Sub-Saharan Africa	Oliver Koeberling, GSK Vaccines Institute for Global Health
14:15 – 14:30	<i>S. Typhimurium</i> Core-OPS (COPS) Glycoconjugate with the Homologous Serovar Phase 1 Flagellin as a Vaccine to Prevent Invasive <i>S. Typhimurium</i> Infections in Sub-Saharan Africa	Raphael Simon, University of Maryland School of Medicine
14:30 – 14:45	Measurement of LPS Specific IgA and IgG Avidity Maturation in Vivotif Vaccinees and Naturally Infected Typhoid Patients in Bangladesh	Farhana Khanam, International Centre for Diarrhoeal Disease and Research, Bangladesh
14:45 – 15:00	Forecasting Typhoid Conjugate Vaccine Introduction and Demand in Typhoid-Endemic Low- and Middle-Income Countries	Enusa Ramani, International Vaccine Institute
15:00 – 15:30	Coffee Break	
15:30 – 17:30	<i>Salmonella</i> Controlled Human Infection Models – Insights, Opportunities and Challenges SYMPOSIUM SESSION CHAIRED BY: Thomas Darton (University of Sheffield) & Andrew Pollard (University of Oxford)	
15:30 – 15:35	<i>Salmonella</i> Challenge Studies – Introduction and Historical Perspective	Andrew Pollard, University of Oxford
15:35 – 15:50	Assessment of the Efficacy of a Vi-Tetanus Toxoid Conjugate Vaccine Using a Controlled Human Infection Model of <i>Salmonella</i> Typhi	Celina Jin, University of Oxford
15:50 – 16:05	Investigating Immunity to Typhoid and Paratyphoid Fever – The Response to Re-Challenge in a Controlled Human Infection Model	Malick Gibani, University of Oxford
16:05 – 16:20	Identifying Correlates of Protection – Systemic Immune Responses to <i>Salmonella</i> Typhi and Paratyphi A Infection	Giorgio Napolitani, University of Oxford
16:20 – 16:35	Mucosal Immune Responses to <i>Salmonella</i> Typhi and Paratyphi A Infection	Lorena Preciado-Llanes, University of Oxford
16:35 – 16:50	Comparative Analysis of Molecular Immune Profiles and Disease Pathogenesis in Typhoid and Paratyphoid Fever	Christoph Blohmke, University of Oxford & Jennifer Hill, University of Oxford
16:50 – 17:05	Recent Advances in the Identification of Immunological Correlates of Protection in a Human <i>S. Typhi</i> Challenge Model	Marcelo Sztein, University of Maryland School of Medicine
17:05 – 17:20	Towards Human Challenge with NTS	Cal MacLennan, University of Oxford
17:20 – 17:30	QUESTIONS AND DISCUSSION	
17:30 – 19:30	#TakeOnTyphoid with TyVAC: Reception to Launch the New Typhoid Vaccine Acceleration Consortium	

THURSDAY, APRIL 6

08:30 – 10:45	The Next Generation: Typhoid Conjugate Vaccine PLENARY SESSION MODERATED BY: Joachim Hombach (World Health Organization) & Vittal Mogasale (International Vaccine Institute)	
08:30 – 08:50	Overview on Vaccine Pipeline: Current Status and Future Plans	Sushant Sahastrabudde, International Vaccine Institute
08:50 – 09:05	Introduction of Typhoid Conjugate Vaccines: Opportunities and Challenges	Kathy Neuzil, University of Maryland School of Medicine
09:05 – 09:20	Development of a Bivalent <i>Salmonella</i> Typhi and Paratyphi A MAPS Vaccine	Rick Malley, Boston Children's Hospital/ Harvard Medical School
09:20 – 09:35	Cost-Effectiveness of Typhoid Conjugate Vaccine Strategies Across Five Settings in Africa and Asia	Virginia Pitzer, Yale School of Public Health
09:35 – 10:05	TYPBAR-TCV: A Clinical Development Review	Krishna Mohan, Bharat Biotech
10:05 – 10:20	First Planned Public Sector Introduction of a Typhoid Conjugate Vaccine in Navi Mumbai, India	Jason Andrews, Stanford University
10:20 – 10:45	QUESTIONS AND DISCUSSION	
10:45 – 11:15	Coffee Break and Posters	
11:15 – 12:45	Global Trends in Typhoid Fever: Determinants and Implications for Policy SYMPOSIUM SESSION CHAIRED BY: Zulfiqar Bhutta (Aga Khan University) & Kathy Neuzil (University of Maryland School of Medicine)	
11:15 – 11:25	Short Overview and Provenance of the Study	Zulfiqar Bhutta, Aga Khan University
11:25 – 11:40	Global Review and Epidemiology	Daina Als, SickKids Centre for Global Child Health
11:40 – 11:50	Additional Trend Data from Global Burden of Disease Study	Jeff Stanaway, Institute for Health Metrics and Evaluation
11:50 – 12:00	Country Case Study: Chile	Catterina Ferreccio, Escuela de Medicina Pontificia Universidad Católica de Chile
12:00 – 12:10	Country Case Study: Pakistan	Jai K Das, Aga Khan University
12:10 – 12:20	Country Case Study: Thailand	Amruta Radhakrishnan, The Hospital for Sick Children
12:20 – 12:30	Country Case Study: Nigeria	Kabiru Olusegun Akinyemi, Lagos State University
12:30 – 12:45	QUESTIONS AND DISCUSSION	
12:45 – 13:45	Lunch and Posters	

13:45 – 15:45	What's New, Doc? Late Breaker Abstracts MODERATED BY: Isaac Bogoch (University of Toronto) & Richard Strugnell (University of Melbourne)	
13:45 – 14:00	Virulence of Invasive <i>Salmonella</i> Typhimurium ST313 in Animal Infection Models	Ellen Higginson, University of Maryland School of Medicine
14:00 – 14:15	Average Treatment Cost for Typhoid Fever and Average Vaccine Delivery Cost per Dose for Each of the 54 GAVI-Eligible Countries	Joke Bilcke, University of Antwerp
14:15 – 14:30	Outbreak Investigation and Assessment of Risk Factors of Ceftriaxone Resistant <i>S. Typhi</i> from Hyderabad, Pakistan	Tahir Yousufzai, Aga Khan University
14:30 – 14:45	<i>Salmonella enterica</i> Serovars Isolated from Stool of Children Enrolled in the Global Enteric Multicenter Study in Africa	Irene Kasumba, University of Maryland School of Medicine
14:45 – 15:00	Leveraging the WHO-Coordinated IB-VPD Surveillance Platform for Enteric Fever Surveillance: Lessons from Bangladesh	Senjuti Saha, Child Health Research Foundation
15:00 – 15:15	A Case-Control Investigation into the Household Distribution of Invasive <i>Salmonellae</i> in Blantyre, Malawi	Melita Gordon, University of Liverpool
15:15 – 15:30	Knowledge, Attitudes and Practices Related to Typhoid Fever: The Case of Glen View Suburb, City of Harare, 2016	Kudzai Masunda, City of Harare Health Department
15:30 – 15:45	Spatial and Temporal Patterns of Typhoid and Paratyphoid Fever Outbreaks: A Worldwide Systematic Review, 1990-2016	Vittal Mogasale, International Vaccine Institute
15:45 – 16:15	Coffee Break	
16:15 – 17:30	Mission Possible: From Evidence to Action PLENARY SESSION MODERATED BY: Bruce Gellin (Sabin Vaccine Institute) & Narendra K. Arora (International Clinical Epidemiology Network)	
16:15 – 16:30	Global Typhoid Control in the Context of the Sustainable Development Goals: Pragmatism or Utopia?	Zulfiqar Bhutta, Aga Khan University
16:30 – 16:45	Considerations for Revised Global Typhoid Vaccination Policy and Strategies	Adwoa Bentsi-Enchill, World Health Organization
16:45 – 17:00	Breaking Good: Making Science Great Again	Rob Breiman, Emory University
17:00 – 17:20	QUESTIONS AND DISCUSSION	
17:20 – 17:25	Closing Remarks	Bruce Gellin, Sabin Vaccine Institute
17:25 – 17:30	Adjourn	Denise Garrett, Sabin Vaccine Institute