

6TH WORLD ONE HEALTH CONGRESS

30 OCT – 3 NOV 2020 #WOHC2020 VIRTUAL EDITION



PRE COVID-19

Since its birth, the One Health Platform believes that ambitions to capitalize on the gains made in the fight against infectious diseases will only be realized if underpinned by strong, global partnerships, where global health security experts and One Health scientists connect, exchange information and set up lasting collaborations. One way to do that is by organizing the World One Health Congresses (previously known as the International One Health Congress).

IMPACT OF COVID-19 – SHIFT TO VIRTUAL EDITION

COVID-19 has clearly shown that responding to pandemic threats requires global cooperation and global participation. Combined with the growing globalization of health risks and the importance of the human-animal interface in the evolution and emergence of pathogens, the only solution is a One Health approach.

In addition, this pandemic has transformed the way scientists and clinicians communicate and share information during a fast moving health crisis. This raises questions on how to deal with “infodemics” or with “bad information”; how to “evaluate” rumours; and how to ensure the benefits of rapid information sharing can outweigh the disadvantages of secrecy.

The One Health Platform and its partners felt that it was

very important to connect and come together with the One Health Community.

The One Health Platform still had hoped to reschedule the 6th World One Health Congress “live version” later at the end of October-early November, but it became clear that large gatherings would have been still prohibited and existing travel bans for some countries would still be in place. Additionally we wanted to prioritize the health and safety of our faculty and attendees.

We have therefore decided to go ‘virtual’, and to make the 6th World One Health Congress a virtual congress. It turned out that this was the right choice, because end October, beginning November the world was still in the middle of the pandemic.

However, the shift to a virtual edition was not an easy one.

There were no existing platforms that met our requirements. Hence we had to write the software for our own virtual platform. And during the dates of the actual Congress, we built a TV studio to secure the live sessions.

Furthermore we had to re-work the programme. One could not just copy/paste a programme “on ground” to a virtual one. And we had to secure recordings of all sessions and re-work them (editing) to sessions. Next to that, we had a lot of technical challenges: release of sessions (streaming via 4 channels), interactivity of the virtual platform etc....

Because of the fact that we were in the middle of a raging pandemic and the majority of our scientists were working on getting the pandemic under control, we opened up our programme and decided to launch a call for abstracts on SARS-CoV-2 / COVID-19.

Topics were:

- Virology and epidemiology
- Pathogenesis and clinical manifestations
- Intervention strategies (diagnostics, vaccines, antivirals, antibodies and biological response modifiers)
- Clinical and outbreak management
- A completely new culture of doing research : the outbreak changed how scientists communicate

Abstracts were accepted till 18 September 2020.

This action resulted in 7 COV sessions out of 76 sessions and 17 lectures out of 239 lectures.

The COV track was an extra programme track in the Congress.

In the first half of 2020, the BTSG was heavily involved in the selection of abstracts of relevance to Global Health Security. By flagging the abstracts relevant to

global health security, they were clearly visible in the programme: thus, effectively creating an additional track 'GLOBAL HEALTH SECURITY', spread out over the parallel sessions of the One Health Science, AMR and Science Policy Interface tracks, Keynotes, Special Partner Sessions and COVID-19/SARS-CoV-2 sessions.

19 sessions from 76 in total connected One Health Science and Global Health Security

78 lectures from 239 in total connected One Health Science and Global Health Security

Furthermore the One Health Platform decided to make the 6th World One Health Congress more than a week's virtual event. It was the start of the creation of a Virtual Scientific Knowledge Center on One Health.

During the week's virtual Congress, we have "fed" our Virtual Scientific Knowledge Center on One Health with our regular – abstract driven – programme, statements and information from our partners, scientific profiles of all presenters (poster and oral) and their work and personal profiles of 1.785 participants. We had 991 posters.

This was our programme:

FRIDAY 30 OCTOBER 2020

Friday 30 October, 08:00 - 09:30 CET

Webinar: Risks of future pandemic threats and how to prepare

TIME

Friday 30 October, 08:00 - 09:30 CET

CHAIR

Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

PROGRAMME

1. **Global Health security aspects of the animal-human interface**
Rebecca Katz, Georgetown University Medical Center, USA
2. **Bats as an example of a major reservoir**
Linfa Wang, Duke-NUS Medical School, Singapore
3. **Threats from the animal-human reservoir**
Richard Kock, Royal Veterinary College, United Kingdom
4. **How to prepare for the next pandemic?**
Ann Moen, World Health Organisation, Geneva

Friday 30 October, 08:00 - 09:30 CET

Webinar: Managing a raging pandemic: a steep learning curve

TIME

Friday 30 October, 08:00 - 09:30 CET

CHAIR

Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

PROGRAMME

1. **Where is the SARS-CoV-2 going from here?**
Eddie Holmes, University of Sydney, Australia
2. **Public Health Strategies: mitigation versus elimination strategies**
Ab Osterhaus, RIZ, Hannover, Germany
3. **Developing therapies**
Joris Vandeputte, International Alliance for Biological Standardisation, Belgium
4. **Vaccine development**
Amol Chaudhari, CEPI, United Kingdom

Friday 30 October, 10:00 - 12:00 CET
Opening ceremony

TIME
 Friday 30 October, 10:00 - 12:00 CET LIVE ↕

CHAIRS:
 Lisa Boden, University of Edinburgh
 John Mackenzie, Curtin University, Australia, Co-founder One Health Platform Foundation

PROGRAMME:

- 1. Message from the First Minister of Scotland**
 Nicola Sturgeon, The Scottish Government, Scotland
- 2. Introduction Soulsby Lecture**
 Judy MacArthur Clark, The Soulsby Foundation, United Kingdom
- 3. Soulsby Lecture: Global diplomacy and security: One Health in the 21st century**
 William Karesh, EcoHealth Alliance, United States of America
- 4. Introduction of the Soulsby Travelling Fellowship programme**
 Katrina Soulsby Bulloch, The Soulsby Foundation, United Kingdom
- 5. The One Health Approach as fundamental competency for Resilient Veterinary Services**
 Matthew Stone, World Organisation of Animal Health, France
- 6. Reduce the impact of Public Health threats at One Health Approach**
 Junxia Song, Food and Agriculture Organization of the United Nations
- 7. Opening keynote lecture by the Director-General of the WHO**
 Tedros Adhanom Ghebreyesus, World Health Organisation, Switzerland

Friday 30 October, 12:00 - 12:30 CET
Keynote Lecture: Long-distance airborne dispersal of SARS-CoV-2 in COVID-19 wards

TIME
 Friday 30 October, 12:00 - 12:30 CET

TRACKS:
 SARS-CoV-2 / COVID-19, Keynote lectures

SPEAKER:
 Janina Krambrich, Uppsala University

PROGRAMME:

- 1. Long-distance airborne dispersal of SARS-CoV-2 in COVID-19 wards**
 Janina Krambrich, Dept of Medical Biochemistry and Microbiology, Uppsala University, Uppsala, Sweden

Friday 30 October, 12:00 - 12:30 CET
Keynote lecture: Scotland's response to COVID-19

TIME
 Friday 30 October, 12:00 - 12:30 CET

TRACK:
 Keynote lectures

SPEAKER:
 Jason Leitch, Scottish Government

Friday 30 October, 12:00 - 14:00 CET
Water and wastewater: fate and treatment of AMR

TIME
 Friday 30 October, 12:00 - 14:00 CET

TRACK:
 Antimicrobial Agents and Resistance

CHAIR:
 David Graham, Newcastle University

PROGRAMME:

- 1. Attributable sources of community-acquired β -lactam antibiotic resistance: a One Health modelling study**
 Lape Mughini-Gras, Dutch National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands
- 2. Genomic, Metagenomic and Correlational Analysis Reveals Electronic Waste Dumpsites in Nigeria to be Novel Reservoir of Antimicrobial Resistance Due Partly to Heavy Metal Pollution**
 Odion Ikhimikur, University of Ibadan, Nigeria
- 3. Contribution of different treatment technologies at reducing total cell and viable cell ARGs from discharged wastewater**
 Panagiota Adamou, Newcastle University, United Kingdom
- 4. Characterization of the microbial resistome of a Sheep farm: A sewage-sludge experimental model**
 Nuno Alexandre Medeiros Silva, Moredun Research Institute, United Kingdom

Friday 30 October, 12:00 - 14:00 CET

Emerging infections: discovery platforms and diagnostics

OHS

TIME:
Friday 30 October, 12:00 - 14:00 CET

TRACKS:
One Health Science, Global Health Security

CHAIRS:
Linfa Wang, Duke-NUS Medical School
Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

PROGRAMME:

- Pace the race: Speedy virus diagnostics by point-of-need sequencing**
Anne Pohlmann, Friedrich-Loeffler-Institut, Institute of Diagnostic Virology, Germany
- Prevalence and Genetic Diversity of Novel Coronaviruses in bats, Bangladesh**
Ariful Islam, EcoHealth Alliance Bangladesh Program ,IEDCR, Dhaka, Bangladesh; Centre for Integrative Ecology, School of Life and Environmental Sciences, Deakin University, Australia **GOS**
- Coronaviruses detected in bats in close contact with humans in Rwanda**
Julius Kayumba Nziza, Gorilla Doctors, Rwanda **GOS**
- Aetiology of livestock abortion in northern Tanzania**
Kathryn J Allan, University of Glasgow, United Kingdom

Friday 30 October, 14:00 - 16:00 CET

Burden and impact of AMR

AMR

TIME:
Friday 30 October, 14:00 - 16:00 CET

TRACK:
Antimicrobial Agents and Resistance

CHAR:
Mark Woolhouse, The University of Edinburgh

PROGRAMME:

- Global trends in antimicrobial resistance in animals in low- and middle-income countries**
Thomas P Van Boeckel, ETH Zurich, Switzerland; Center for Diseases Dynamics Economics and Policy
- Non-Typhoidal Salmonella Gastroenteritis in Children <5 Years in Hong Kong: Risk Factors and Whole Genome Sequencing Analysis of Serotypes and Antimicrobial Resistance**
Pei Yee Woh, JC School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong S.A.R., China
- Third-generation cephalosporin resistance in Escherichia coli blood stream infections: a multi-national population-based study**
Melissa C MacKinnon, Department of Population Medicine, University of Guelph, Ontario, Canada
- AMR: Disease- and economic burden and risk mitigation efforts in the animal sector**
Jeergen Schlundt, Nanyang Technological University Food Technology Centre (NAFTEC), Singapore

Friday 30 October, 14:00 - 16:00 CET

Understanding the social context of One Health

OHS

TIME:
Friday 30 October, 14:00 - 16:00 CET

TRACK:
One Health Science

CHAIRS:
Steve Hinchliffe, University of Exeter
Jakob Zinsstag, Swiss Tropical and Public Health Institute

PROGRAMME:

- Assessing the Psycho-Social Impact of Disease Eradication on Farmers and Rural Communities Impacted by Disease Incursions**
Mark Bryan, VetNZ, New Zealand
- Combining ethnography, behavioural experiments and epidemiological modelling in One Health, a proof of concept**
Guillaume Fournie, Royal Veterinary College, United Kingdom
- Visible and invisible risks in One Health: exploring washing and hygiene practices with women living on low income in Kenya**
Jude E Robinson, University of Glasgow, United Kingdom
- COVID-19, 5G, and the Anatomy of Belief: Understanding Infodemics in the Anthropocene**
Kevin Bardosh, University of Washington, United States of America

Friday 30 October, 14:00 - 16:00 CET
AMR: challenges for scientists and policy makers

SP1

TIME
 Friday 30 October, 14:00 - 16:00 CET

TRACK
 Science Policy Interface

CHAIRS
 Simon Doherty, Queen's University Belfast
 Lawrence Madoff, International Society for Infectious Diseases

- PROGRAMME:
- An integrative approach to understanding AMR in New Zealand - development of a shared causal understanding**
 Patricia Priest, University of Otago, New Zealand
 - Capacities of African country to tackle global threat of antimicrobial resistance from the One Health perspectives**
 Mohamed Moutar Mouliche Mouloum, ICF, Infectious Disease Detection and Surveillance (DDS), Yaoundé, Cameroon
 - Pro-MED AMR**
 Lawrence Madoff, International Society for Infectious Diseases, United States of America
 - One Health for All: U.S. Strategies to Collaborate and Combat Antibiotic-Resistance**
 Jomana Musmar, US Department of Health and Human Services, United States of America

Friday 30 October, 16:00 - 18:00 CET
Special Partner Session organized by Zoetis: One Health Solutions from Animal Health

SPS

TIME
 Friday 30 October, 16:00 - 18:00 CET

TRACK
 Special Partner Sessions

CHAIR
 Theo Kanellos, Zoetis

- PROGRAMME:
- One Health - A key Approach to Sustainability in Animal Health**
 Robert Kelly, Zoetis, Ireland
 - Introduction by the chair**
 Theo Kanellos, Zoetis, Ireland
 - Veterinary Vaccines and their Impact on One Health**
 Mahesh Kumar, Zoetis, United States of America
 - How to address One Health issues with veterinary vaccination - Norwegian approach from aquaculture to AMR**
 Knut Rønningen, Norwegian Food Safety Authority
 - Strengthening the USDA One Health Approach: 'The National Bio and Agro Defense Facility'**
 Kimberly Dodd, USDA APHIS, United States of America
 - Animal Health Contributions to Coronavirus Control**
 John Hardham, Zoetis Inc, United States of America
 - Sustainable Herd Health in Practice - managing the balance**
 Jonathan Statham, RAFT Solutions Ltd, England
 - Novel data insights- what can they do to address emerging challenges from human-animal interactions?**
 Isaac Odeyemi, Zoetis, Ireland

Friday 30 October, 18:00 - 18:30 CET
Keynote lecture: Covid-19 Virology

COV KEY

TIME
 Friday 30 October, 18:00 - 18:30 CET

TRACKS
 SARS-CoV-2 / COVID-19, Keynote lectures

SPEAKER
 Stefan Pöhlmann, Leibniz-Institut für Primatenforschung

- PROGRAMME:
- Covid-19: Virology**
 Stefan Pöhlmann, Leibniz-Institut für Primatenforschung, Germany

Friday 30 October, 18:00 - 20:00 CET

Special Partner Session organized by the University of Edinburgh: A blueprint for a One Health nation - supported by SEFARI

SPS

TIME

Friday 30 October, 18:00 - 20:00 CET

TRACK

Special Partner Sessions

CHAIR

Lisa Boden, University of Edinburgh

PROGRAMME

1. Introduction to WHOHC and One Health

Lisa Boden, University of Edinburgh, UK, United Kingdom

2. "Some hae meat and canna eat and some wad eat that want it": What do Scots want for the future of food and farming?

Elisabeth Ann Innes, Moredun Research Institute, United Kingdom

3. One Health Approaches to Emergent infections under Climate Change and Threats to Biodiversity

Rowland Kao, Royal Dick School of Veterinary Science and Roslin Institute, United Kingdom

4. Generation Alpha: What skills, training and technology will they need to equip them for One Health possibilities of the future?

Liz Grant, University of Edinburgh, United Kingdom

Friday 30 October, 18:00 - 20:00 CET

Special Partner Session One Health in practice in Greece: jointly organized by Asclepius One Health and the One Health Platform

SPS

TIME

Friday 30 October, 18:00 - 20:00 CET

TRACK

Special Partner Sessions

CHAIRS

Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

Anna Papa, Medical School, Aristotle University of Thessaloniki

PROGRAMME

1. Vision of Asclepius One Health

Eleni Pavlidou, Asclepius One Health, Greece

2. The Importance of One Health from a Sociopolitical Aspect

George Papandreou, Ex-Prime Minister of Greece; President of the Socialist International, Greece

3. One Health in practice in Greece-International Commitment

Rafael Laguens, President Elect of World Veterinary Association, Spain

4. One Health=Healthy Animals=Healthy People

Athina Trachili, Vice President of Union of European Veterinary Practitioners ; President of Hellenic Veterinary Association

5. Zoonotic and Arboviral Diseases – a Continuous Health Threat for Greece

Anna Papa, Medical School, Aristotle University of Thessaloniki, Greece

6. Zoonotic and Arboviral Diseases – a Continuous Health Threat for Greece

Smaragda Sotiraki, Vet Res Institute Hellenic Agricultural Organisation DEMETER, Greece

7. Antimicrobial Resistance - An International Challenge with Local Solutions

Flora Kontopidou, National Public Health Organization (NGHO), Greece

8. Antimicrobial Resistance -An International Challenge with Local Solutions

George Valliakos, University of Thessaly, Greece

9. Conclusions - Impactful Regional Solutions for One Health

Theo Kanellios, Zoetis, Ireland; Chair of The One Health Committee of the Hellenic Veterinary Association

10. Closing

Eleni Pavlidou, Asclepius One Health, Greece

Friday 30 October, 20:00 CET

Recap of the day / Catch-up with Lisa Boden, #WHOHC2020 Co-Chair, Live from Edinburgh

LIVE

TIME

Friday 30 October, 20:00 CET

SATURDAY 31 OCTOBER 2020

Saturday 31 October, 08:00 - 08:30 CET

Keynote lecture: Global Health Security: Preparing and Responding to Novel Zoonoses

KEY GOS

TIME

Saturday 31 October, 08:00 - 08:30 CET

TRACKS

Keynote lectures, Global Health Security

SPEAKER

Harvey V. Fineberg, Gordon and Betty Moore Foundation

Saturday 31 October, 08:00 - 10:00 CET

Pathogenesis and clinical manifestations

COV GOS

TIME

Saturday 31 October, 08:00 - 10:00 CET

TRACKS

SARS-CoV-2 / COVID-19, Global Health Security

CHAIR

Linfa Wang, Duke-NUS Medical School

PROGRAMME

- 1. Baseline metabolic panel predictors of SARS-CoV-2 outcomes in a population of over 50's**
Georgina Phillips, St Mary's Hospital, Imperial College London, United Kingdom
- 2. Can BCG vaccine participate in the fight against covid-19?**
Micha Roumiantzeff, ASSOCIATION LYONNAISE pour la COOPÉRATION FRANCO-RUSSE, CULTURELLE et SANITAIRE, France
- 3. Gastrointestinal symptoms involvement in hospitalised COVID-19 patients in Liverpool, UK: a descriptive cross-sectional, single-centre study**
Gemma Rose Graham, Liverpool School of Tropical Medicine, Liverpool, United Kingdom
- 4. Discovery a major deletion in the SARS-CoV-2 genome and the impact on severity of infection**
Danielle Anderson, Duke-NUS Medical School, Singapore

Saturday 31 October, 09:00 - 09:10 CET

Good morning with Ab Osterhaus

LIVE 

TIME

Saturday 31 October, 09:00 - 09:10 CET

Saturday 31 October, 10:00 - 12:00 CET

Transmission human, animal, environment

AMR

TIME

Saturday 31 October, 10:00 - 12:00 CET

TRACK

Antimicrobial Agents and Resistance

CHAIRS

Joergen Schlundt, Schlundt Consult
Jaap Wagenaar, Utrecht University

PROGRAMME

- 1. First report of New Delhi metallo- β -lactamase-producing E. coli in a dog in British Columbia, Canada with link to a human case using whole genome sequencing**
Erin Fraser, Communicable Disease and Immunization Service, BC Centre for Disease Control, BC, Canada; School of Population and Public Health, Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada
- 2. A genomic and modelling approach to understanding the evolution, source and transmission of a recently emerged antimicrobial resistant lineage of Campylobacter jejuni in New Zealand**
Nigel Peter French, School of Veterinary Science, Massey University, Palmerston North, New Zealand; One Health Aotearoa, New Zealand; New Zealand Food Safety Science and Research Centre, Hopkirk Research Institute, Massey University, Palmerston North, New Zealand
- 3. Farm dust resistomes and bacteriomes in European poultry and pig farms**
Roosmarijn Luiken, Institute for Risk Assessment Sciences, Utrecht University
- 4. Predominance of CTX-M-15 in Cefotaxime-Resistant Escherichia coli isolates from Food Animals and in-contact Humans in Southeast Nigeria**
Solomon Olabiji Olorunleke, Ebonyi State University, Abakaliki, Ebonyi State, Nigeria

Saturday 31 October, 10:00 - 12:00 CET
Economic issues in One Health and cost-effectiveness of operational One Health programmes OHS

TIME
 Saturday 31 October, 10:00 - 12:00 CET

TRACKS
 One Health Science

CHAIRS
 Jonathan Rushton, University of Liverpool
 Della Grace, International Livestock Research Institute

PROGRAMME

- Assessing the socioeconomic impact of snakebite in Nepal and in Cameroon: a One Health approach**
 Sara Babo Martins, Institute of Global Health, Faculty of Medicine, University of Geneva, Geneva, Switzerland
- The role of animal health systems in One Health: a case study from the Mekong region**
 Barbara McPake, Nossal Institute for Global Health, Melbourne School of Population and Global Health, The University of Melbourne, Australia
- Added value of the One Health approach during the investigation and response to an outbreak of the Monkeypox epidemic among chimpanzees in Cameroon**
 Severin Loul, Research Center on emerging and re-emerging diseases, Cameroon
- Comparison of oral bait handout compared to net catching as methods to access free roaming dogs for rabies vaccination in Goa, India**
 S. Mazeri, The Roslin Institute and The Royal (Dick) School of Veterinary Studies, The University of Edinburgh, Easter Bush Veterinary Centre, Roslin, Midlothian, United Kingdom

Saturday 31 October, 10:00 - 12:00 CET
Addressing zoonotic diseases at the animal-human-ecosystem interface: responding to threats SPI

TIME LIVE 9
 Saturday 31 October, 10:00 - 12:00 CET

TRACKS
 Science Policy Interface, Global Health Security

CHAIRS
 Bernadette Ramirez, World Health Organization
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

PROGRAMME

- The One Health EJP network of European public organisations aims at reinforcing cross-sector preparedness**
 Hein Imberechts, Sciensano, the Belgian Institute for Health
- Integrating climate and environment public dataset in surveillance for early warning**
 Maria Grazia Dente, National Centre for Global Health, Istituto Superiore di Sanità, Italy
- Improvement of One Health collaboration at the national level for early warning, risk-assessment and control of emerging zoonotic diseases**
 Catharina Maassen, National Institute for Public Health and the Environment, The Netherlands GOS
- Beavers, Brexit and birch trees: what do the next 10 years have in store for wildlife and how will it impact the UK's epidemiological landscape?**
 Flavie Vial, Animal and Plant Health Agency, United Kingdom

Saturday 31 October, 12:00 - 14:00 CET
Special Partner Session organized by Health Security Interface WHO: Where Two Worlds Intersect: Collaboration at the Health-Security Interface to Mitigate Infectious Disease Threats SPS GOS

TIME LIVE 9
 Saturday 31 October, 12:00 - 14:00 CET

TRACKS
 Special Partner Sessions, Global Health Security

CHAIRS
 Trevor Smith, Global Affairs Canada
 Maurizio Barbeschi, World Health Organization

PROGRAMME

- Introduction to health security collaboration and the role of the Global Partnership**
 Trevor Smith, Global Affairs Canada, Canada
- Multi-sectoral work of the Health Security Interface WHO**
 Maurizio Barbeschi, World Health Organization, Switzerland
- Merits and challenges of the health security sector engagement from a scientific perspective**
 John Mackenzie, Curtin University, Australia, Co-founder One Health Platform Foundation
- BWC Implementation Support Unit - BTWC as a critical pillar of the health security infrastructure**
 Daniel Feakes, BWC Implementation Support Unit, Switzerland
- The front-line role of law enforcement in prevention, detection and response to disease threats**
 Adrien Sivignon, INTERPOL, France
- The role of Ministries of Defense in health security**
 Júlio Gouveia-Carvalho, Portuguese Army, Portugal
- The importance of health security in Africa**
 Lucille Blumberg, Public Health Surveillance and Response Division South Africa, South Africa

The presentations will be followed by panel discussions and questions from the virtual floor.

Saturday 31 October, 14:00 - 16:00 CET
Surveillance of AMR AMR

TIME:
 Saturday 31 October, 14:00 - 16:00 CET

TRACK:
 Antimicrobial Agents and Resistance

CHAIR:
 Toby Leslie, Fleming Fund / Mott MacDonald

- PROGRAMME:
- 1. Antimicrobial resistance genes in giant tortoises as an indicator of One Health impacts in the Galapagos Islands**
 Ainoa Nieto Claudin, Charles Darwin Foundation, Ecuador
 - 2. Antimicrobial susceptibility profile of selected Enterobacteriaceae in wastewater samples from health facilities, abattoir, downstream rivers and a waste water treatment plant in Addis Ababa, Ethiopia**
 Tadesse Eguale, Addis Ababa University, Ethiopia
 - 3. Regional Distribution of Resistance Combinations Patterns in Escherichia coli from different human and animal populations: Data from German National Surveillance and Monitoring for AMR between 2014 and 2017**
 Beneditta Suwono, German Federal Institute for Risk Assessment, Germany
 - 4. Targeted metagenomics for source attribution of Antimicrobial Resistance in Urban systems**
 Marcos Quintela-Baluja, Newcastle University, England

Saturday 31 October, 14:00 - 16:00 CET
One Health in sustainable food systems OHS

TIME:
 Saturday 31 October, 14:00 - 16:00 CET

TRACK:
 One Health Science

CHAIRS:
 Grant Stentiford, Cefas
 Gregory Gray, Duke University School of Medicine

- PROGRAMME:
- 1. Can organic food production save the world? The impact of organic farming on GHGs and antimicrobial use**
 Mark Bryan, VetNZ, New Zealand
 - 2. Population growth, climate change and intensification of the aquaculture industry as drivers of invasive disease emergence in humans in Southeast Asia**
 Ruth Zadoks, University of Sydney, Australia
 - 3. More than zoonoses: Using a One Health systems approach to improve community livelihoods, livestock productivity and wildlife conservation in the Pamir Mountains of Tajikistan**
 Angus John Dugald Campbell, Nossal Institute for Global Health, Faculty of Medicine, Dentistry & Health Sciences, University of Melbourne, Australia
 - 4. The Interconnectedness of Public Health and Plant Health: Implications for Food Safety and Security**
 David M. Rizzo, UC Davis, United States of America
 - 5. Food systems through the One Health lens**
 Grant Stentiford, Cefas, United Kingdom

Saturday 31 October, 14:00 - 16:00 CET
Empowering global health security and policy in Africa SPI GOS

TIME:
 Saturday 31 October, 14:00 - 16:00 CET

TRACKS:
 Science Policy Interface, Global Health Security

CHAIRS:
 Sarah Cleaveland, University of Glasgow
 Peninah Munyua, US Centers for Disease Control and Prevention, Kenya

- PROGRAMME:
- 1. Operationalizing One Health in Liberia: Bringing Sectors Together for Resilient Health Services Post-Ebola**
 Sonpon Blamo Sieh, National Public Health Institute of Liberia, Liberia GOS
 - 2. Zoonotic disease preparedness in Sub-Saharan African countries**
 Linzy Elton, University College London, United Kingdom GOS
 - 3. South-to-South Mentoring as a Vehicle for Implementing Sustainable Health Security in Africa**
 Stephanie Marie Norlock, International Federation of Biosafety Associations (IFBA), Canada GOS
 - 4. One Health Zoonotic Disease Prioritization for Multisectoral Engagement in the Economic Community of West African States (ECOWAS)**
 Casey Barton Behravesh, Centers for Disease Control and Prevention (CDC), United States of America GOS
 - 5. Programming for Global Health Security: Challenges and Pathways to Resolution**
 Jeff Mecaskey, DAI Global Health GOS

Saturday 31 October, 16:00 - 18:00 CET
Biological threat reduction and control of biological agents OHS GOS

TIME: Saturday 31 October, 16:00 - 18:00 CET LIVE 6

TRACKS: One Health Science, Global Health Security

CHAIR: Ian Lipkin, Columbia University

PROGRAMME:

- 1. Outbreak Activity Library: A user-friendly compilation of all activities essential for effective outbreak response** GOS
 Ellie Graeden, Talus Analytics, United States of America
- 2. Assessment of the biorisk status of veterinary laboratories in Southwest Nigeria - Application of the food and agriculture organization laboratory mapping tool - safety module** GOS
 Oluwawemimo Adebawale, Federal University of Agriculture Abeokuta, Nigeria
- 3. VetBioNet: A Network of Biocontainment facilities supporting One Health** GOS
 Hugh Andrew Simmons, Animal and Plant Health Agency, United Kingdom
- 4. Prepare to deal with unpredicted emerging infectious disease by establish and strengthen field epidemiology workforce network in ASEAN plus Three countries** GOS
 Komchaluch Taweeseeneepitch, ASEAN Plus Three Field Epidemiology Training Network coordination office, Thailand

Saturday 31 October, 18:00 - 20:00 CET
Big data and digital solutions AMR

TIME: Saturday 31 October, 18:00 - 20:00 CET

TRACK: Antimicrobial Agents and Resistance

CHAIR: Britta Lassmann, International Society for Infectious Diseases

PROGRAMME:

- 1. The role of U.S. FDA's Veterinary Laboratory Investigation and Response Network in monitoring antimicrobial resistance of animal pathogens**
 Olga Ceric, Veterinary Laboratory Investigation and Response Network (Vet-LIRN), Center for Veterinary Medicine, US Food and Drug Administration, United States of America
- 2. Global Increase in Antibiotic-Resistant E. coli in Food-Animals: A Genomic Public Data Approach**
 João Pires, Institute for Environmental Decisions, ETH Zürich, Switzerland
- 3. Establishment of an Artificial Intelligence Enabled Global Antimicrobial Resistance Surveillance System to Analyze Historical and Real-time Data**
 Shivaramu Keelara, College of Veterinary Medicine, North Carolina State University, United States of America
- 4. OUTBREAK: A big data and AI approach for tracking, tracing and tackling One Health AMR**
 Branwen Sarah Morgan, University of Technology Sydney, Australia

Saturday 31 October, 18:00 - 20:00 CET
Special Partner Session organized by BMJ/VET RECORD: Sustainability in healthcare - Sustainability in veterinary settings SPS

TIME: Saturday 31 October, 18:00 - 20:00 CET

TRACK: Special Partner Sessions

CHAIR: Alexander John Trees, House of Lords

PROGRAMME:

- 1. Sustainability in healthcare systems: Companion animal practice**
 Ellie West, Linnaeus, United Kingdom
- 2. ONE HEALTH: Sustainability within Farm Animal Practice**
 Jonathan Statham, RAFT Solutions Ltd, England
- 3. Opportunities for sustainability leadership in the veterinary professions**
 Laura Elizabeth Higham, University of Edinburgh, England; Vet Sustain; FAI Farms

Saturday 31 October, 20:00 CET
Recap of the day / Catch-up with Lisa Boden, #WOHC2020 Co-Chair, Live from Edinburgh LIVE 6

TIME: Saturday 31 October, 20:00 CET

SUNDAY 1 NOVEMBER 2020

Sunday 1 November, 08:00 - 10:00 CET
Advances in vaccine technologies and their impact in underprivileged communities/populations OHS

TIME
 Sunday 1 November, 08:00 - 10:00 CET

TRACKS
 One Health Science, Global Health Security, Vaccination

CHAIRS
 John Mackenzie, Curtin University, Australia, Co-founder One Health Platform Foundation
 Julie Fitzpatrick, Moredun Research Institute

PROGRAMME

- Avian viral disease prevention and control with plant vaccines for the Mediterranean area (AVIAMED)**
 Selene Baschieri, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Rome, Italy
- Human and murine immune correlates providing protection from tick-borne encephalitis.**
 Monique Petry, Research Center for Emerging Infections and Zoonoses, University of Veterinary Medicine, Hannover, Germany
- Developing a 'One Health' Nipah virus vaccine to protect animal and public health** VAX GOS
 Simon Paul Graham, The Pirbright Institute, United Kingdom
- A field trial to determine the efficacy of a potentially thermostable rabies vaccine following storage in field conditions**
 Ahmed Lugelo, Sokoine University of Agriculture, Tanzania; Ifakara Health Institute, Tanzania

Sunday 1 November, 09:00 - 09:10 CET
Good morning with Ab Osterhaus LIVE

TIME
 Sunday 1 November, 09:00 - 09:10 CET

Sunday 1 November, 09:00 - 09:30 CET
Keynote Lecture: Never too late to Learn Lessons of SARS, COVID-19 and other outbreaks KEY

TIME
 Sunday 1 November, 09:00 - 09:30 CET

TRACK
 Keynote lectures

SPEAKER
 Henk Bekeedam, Senior Global Health Consultant

Sunday 1 November, 10:00 - 10:30 CET
Keynote Lecture: How to prepare for the next influenza pandemic? Antivirals as one of the cornerstones of pandemic preparedness KEY

TIME
 Sunday 1 November, 10:00 - 10:30 CET

TRACK
 Keynote lectures

SPEAKER
 Frederick Hayden, University of Virginia

Sunday 1 November, 10:00 - 10:30 CET
Keynote lecture: Connecting One Health Science and Global Health Security in Africa. Event-based surveillance as a condition for public health emergency preparedness and response KEY

TIME
 Sunday 1 November, 10:00 - 10:30 CET

TRACK
 Keynote lectures

SPEAKER
 Arunmozhi Balajee, Centre for Disease Control and Prevention

Sunday 1 November, 10:00 - 10:30 CET
Keynote lecture: Connecting One Health Science and Global Health Security in Africa. Promoting Community Level One Health Security as the paradigm that will improve efficiency for the National, Regional and Global Health Security Agenda KEY

TIME
 Sunday 1 November, 10:00 - 10:30 CET

TRACK
 Keynote lectures

SPEAKER
 Mark Rweyemamu, SACIDS Foundation for One Health

Sunday 1 November, 10:00 - 12:00 CET
Vaccines for emerging infections OHS

TIME
 Sunday 1 November, 10:00 - 12:00 CET

TRACKS
 One Health Science, Global Health Security, Vaccination

CHAIR
 Pierre Van Damme, University of Antwerp

PROGRAMME:

- 1. A single dose of the MVA-BN smallpox vaccine induces an early protective antibody response and is a vaccine for monkeypox**
 Heinz Weidenthaler, Bavarian Nordic, Germany VAX GOS
- 2. Rabies control through mass dog vaccination, community education and enhanced surveillance in Goa India – a State example of success**
 Andrew David Gibson, University of Edinburgh, United Kingdom; Mission Rabies, United Kingdom VAX
- 3. Vaccine Development**
 Ab Osterhaus, Research Center for Emerging Infections and Zoonoses, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany
- 4. A single-dose live-attenuated YF17D-vectored 1 SARS-CoV2 vaccine candidate**
 Johan Neyts, University of Leuven, Belgium

Sunday 1 November, 12:00 - 14:00 CET
Communication in a pandemic COV GOS

TIME LIVE ↕
 Sunday 1 November, 12:00 - 14:00 CET

TRACKS
 SARS-CoV-2 / COVID-19, Global Health Security

CHAIR
 Debora MacKenzie, New Scientist

PROGRAMME:

- 1. Communication in a pandemic**
 Debora MacKenzie, New Scientist, United Kingdom
- 2. Communication in a pandemic**
 Kai Kupferschmidt, Science Magazine, Germany
- 3. Communication in a pandemic**
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany
- 4. Communication in a pandemic**
 Marc Van Ranst, University of Leuven, Belgium

Sunday 1 November, 14:00 - 16:00 CET
Alternative approaches to tackling resistant infections AMR

TIME
 Sunday 1 November, 14:00 - 16:00 CET

TRACK
 Antimicrobial Agents and Resistance

CHAIR
 Roberto Marcello La Ragione, University of Surrey

PROGRAMME:

- 1. Phenotypic and genotypic properties of lytic phages from livestock slaughterhouses and their suitability for the treatment of multidrug-resistant *P. aeruginosa***
 Jens Andre Hammerl, German Federal Institute for Risk Assessment, Germany
- 2. Antimicrobial efficacy of Cecropin A (1-7)- Melittin (CAMA), lactoferricin (17-30) and their combination against multi-drug resistant enteroaggregative *Escherichia coli***
 Jess Vergis, ICAR- Indian Veterinary Research Institute, Izatnagar, Uttar Pradesh, India; College of Veterinary and Animal Sciences, Pookode, KVASU, Kerala, India
- 3. Investigating behaviours related to antibiotic use and exploring the viability of phage therapy as an alternative antimicrobial in UK companion animal medicine**
 Lucy Rhys-Davies, University of Surrey, England
- 4. Targeting host ANP32A gene in the chicken to introduce genetic resistance to avian influenza through genome editing**
 Alewo Idoko-Akroh, The Roslin Institute & Royal (Dick) School of Veterinary Studies, The University of Edinburgh, United Kingdom

Sunday 1 November, 14:00 - 16:00 CET
Biological threat modelling and risk evaluation using big data OHS GOS

TIME
 Sunday 1 November, 14:00 - 16:00 CET LIVE 6

TRACKS
 One Health Science, Global Health Security

CHAIRS
 Robert Clarke, Global Affairs Canada
 Kamran Khan, BlueDot/University of Toronto

PROGRAMME

1. Comparison of deep learning models in predicting time points of dengue fever outbreak Sumiko Anno, Sophia University, Japan	GOS
2. Simulation modelling of Rift Valley fever to inform epidemic control strategies in northern Tanzania Paul C D Johnson, Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, UK	GOS
3. Leveraging big data with artificial and human intelligence to track and contextualize global infectious disease threats across the human health, animal health, and security/law enforcement sectors Kamran Khan, University of Toronto, Canada; BlueDot, Toronto, Canada	GOS
4. Establishment of a virtual regional centre for big data analytics and visualization: The ASEAN BioDiaspora Project Socorro Lupisan, Field Epidemiology Training Program Alumni Foundation, Inc, Philippines	GOS

Sunday 1 November, 14:00 - 16:00 CET
Sustainable approaches to One Health SPI

TIME
 Sunday 1 November, 14:00 - 16:00 CET

TRACKS
 Science Policy Interface, Global Health Security

CHAIR
 Appolinaire Djikeng, The University of Edinburgh

PROGRAMME

1. The Vital Importance of a Web of Prevention for Effective Biosafety and Biosecurity in the 21st Century Tatyana Novosiolova, Center for the Study of Democracy, Bulgaria	GOS
2. Breaking the Silo Effect - Multi-sectoral Collaboration at Global Level to Operationalize One Health - The Ohio State Global One Health initiative model Tigist Endashaw Bealem, Ohio State Global One Health initiative, Ethiopia	
3. How could we halt the international bushmeat trade, a threat to biodiversity and public health? Policy perspectives and recommendations following a 2-year study on bushmeat trade from Africa to Belgium Anne-Lise Coralie Chaber, University of Adelaide, Australia	
4. UK: One Health in practice Christine Middlemiss, Department for Environment, Food and Rural Affairs, United Kingdom	

Sunday 1 November, 16:00 - 18:00 CET
Policy interventions AMR

TIME
 Sunday 1 November, 16:00 - 18:00 CET

TRACK
 Antimicrobial Agents and Resistance

CHAIR
 Laura Kahn, Princeton University

PROGRAMME

1. Future surveillance of AMR in animals in China - a spatial approach Cheng Zhao, Institute for Environmental Decisions, ETH Zurich, Switzerland	
2. Is AMR transmitted through food just another food safety issue? Anna Christina George, Murdoch University Australia, Chatham House, London	
3. Aligning National Policies to Combat Antimicrobial Resistance (AMR): A comparative study of national action plans and their relationship with the Global Action Plan on AMR Louise Munkholm, Roskilde University, Denmark	
4. Antimicrobial Resistance Interventions in Nigeria Post 2017 Situation Analysis and Recommendation Emmanuel Ifechukwude Benyeogor, Nigeria Centre for Disease Control	

Sunday 1 November, 16:00 - 18:00 CET
Environmental and ecological issues

OHS

TIME:
 Sunday 1 November, 16:00 - 18:00 CET

TRACK:
 One Health Science

CHAIRS:
 Tracey McNamara, Western University of Health Sciences College of Veterinary Medicine
 Richard Kock, Royal Veterinary College

- PROGRAMME:
- 1. Collaborative and participatory dissemination of techniques and social technologies for the conservation of water resources**
 Luan Ritchelle Aparecido Dos Anjos, Universidade Federal de Viçosa, Brazil
 - 2. One Health approach to promoting Sustainable Livelihoods through Rangeland Health in Ethiopia**
 Fiona Flintan, ILRI International Livestock Research Institute, Ethiopia
 - 3. Investigation into the utility of flying foxes as bioindicators for environmental metal pollution reveals evidence of diminished lead but significant cadmium exposure**
 Laura Ann Pulscher, Sydney School of Veterinary Science, Faculty of Science, The University of Sydney, Australia
 - 4. Predicting and preparing for zoonotic disease risks through co-production of spatial models: Kyasanur Forest Disease in India's degraded forests**
 Bethan V Purse, UK Centre for Ecology and Hydrology, Wallingford, Oxfordshire, United Kingdom

Sunday 1 November, 18:00 - 18:30 CET
Keynote lecture: Virulence and Transmissibility of Highly Pathogenic Avian Influenza H5N6 Viruses in the Ferret Model

KEY

TIME:
 Sunday 1 November, 18:00 - 18:30 CET

TRACK:
 Keynote lectures

SPEAKER:
 Joanna Alicja Pulit-Penaloza, Centers for Disease Control & Prevention

Sunday 1 November, 18:00 - 20:00 CET
Behaviour change and social sciences

AMR

TIME:
 Sunday 1 November, 18:00 - 20:00 CET

TRACK:
 Antimicrobial Agents and Resistance

CHAIR:
 Tamika Sims, International Food Information Council Foundation

- PROGRAMME:
- 1. Designing a communication campaign to Support the National Action Plan (SNAP) on AMR in Tanzania**
 Shona Hilton, University of Glasgow, United Kingdom
 - 2. Antibiotics and You - Using Digital Tools to Measure the Impact of Antimicrobial Resistance Campaigns**
 Sharon Pflieger, NHS Highland, United Kingdom
 - 3. Understand. Adapt. Preserve. Increasing knowledge and motivating behavioral changes among food producers and consumers to preserve the efficacy of antibiotics through the IAMResponsibleTM Project**
 Mara Zelt, University of Nebraska-Lincoln, United States of America

Sunday 1 November, 20:00 - 22:00 CET
Intervention strategies (diagnostics, vaccines, antivirals, antibodies and biological response modifiers)

COV GOS

TIME:
 Sunday 1 November, 20:00 - 22:00 CET

LIVE 

TRACKS:
 SARS-CoV-2 / COVID-19, Global Health Security

CHAIR:
 William Karesh, EcoHealth Alliance

- PROGRAMME:
- 1. Developing Covid-19 Training modules suitable for different disciplines in the framework of One Health strategies: the experience of MediLabSecure Network**
 Maria Grazia Dente, Istituto Superiore di Sanità, Italy
 - 2. Assessment of Effectiveness of National Lock down Measures in Reducing COVID-19 Burden - A Comparison of Selected Countries**
 Jayati Atahar, George Mason University, United States of America
 - 3. Pandemics and Protein**
 Jerry Martin, Tufts University, United States of America
 - 4. COVID-19 Awareness and Public Health Message Effectiveness Across Job Roles in the Hospital Setting**
 Ameer Aldarragi, Aintree University Hospital, United Kingdom
 - 5. Preliminary Findings from the Ongoing Veterinary and Animal Care Workers' Perceived Risk and Willingness to Respond to the COVID-19 Pandemic Study**
 Kathryn R. Dalton, Department of Environmental Health and Engineering, Johns Hopkins University Bloomberg School of Public Health, United States of America

Sunday 1 November, 22:00 CET

Recap of the day / Catch-up with Lisa Boden, #WOHC2020 Co-Chair, Live from Edinburgh

TIME

Sunday 1 November, 22:00 CET

LIVE 

MONDAY 2 NOVEMBER 2020

Monday 2 November, 09:00 - 09:15 CET

Good morning with Ab Osterhaus / Catch-up with John Mackenzie, #WOHC2020 Co-Chair, Live from Australia

TIME

Monday 2 November, 09:00 - 09:15 CET

LIVE 

Monday 2 November, 09:00 - 09:30 CET

Keynote lecture: Considerations for veterinary public health interventions at the human-animal interface

KEY

TIME

Monday 2 November, 09:00 - 09:30 CET

TRACK

Keynote lectures

SPEAKER

Manuel Sanchez Vazquez, PAHO/WHO

Monday 2 November, 10:00 - 12:00 CET

Diagnostics and detection

AMR

TIME

Monday 2 November, 10:00 - 12:00 CET

TRACK

Antimicrobial Agents and Resistance

CHAIR

Till Bachmann, University of Edinburgh

PROGRAMME

1. **Availability of new rapid diagnostics for bacterial identification and antimicrobial susceptibility testing at point-of-care in India**
Monica Sharma, Indian Council of Medical Research, New Delhi, India
2. **Rapid diagnostic development to combat antimicrobial resistance in livestock**
Katherine Elizabeth Adam, University of Edinburgh, United Kingdom
3. **User driven Diagnostics to tackle AMR in a One Health context**
Till Bachmann, University of Edinburgh, United Kingdom
4. **Rapid method for detection of β -lactam resistant E. coli in milk**
Avinash Jaswal, National Dairy Research Institute (NDRI), ICAR, Haryana, India

Monday 2 November, 10:00 - 12:00 CET

Intervention strategies in outbreak scenarios in original host and in newly invaded species

OHS

TIME

Monday 2 November, 10:00 - 12:00 CET

TRACKS

One Health Science, Vaccination

CHAIRS

Martyn Jeggo, Deakin University
Dilys Morgan, Public Health England

PROGRAMME

1. **One Health and a blood meal - integrative and ecologically sensitive approaches to control mosquito borne diseases**
Najmul Haider, Royal Veterinary College, England
2. **Scaling-up, monitoring and improving efficiency of large-scale dog vaccination campaigns against rabies in Tanzania**
Maganga Sambo, Ifakara Health Institute, Ifakara, Tanzania
3. **Domestic dogs and the eradication of Guinea worm**
Robbie McDonald, University of Exeter, United Kingdom
4. **WHO Emergency preparedness**
Jaouad Mahjour, World Health Organisation, Switzerland

VAX

Monday 2 November, 10:00 - 12:00 CET

Special Partner Session Co-organized by The Special Programme for Research and Training in Tropical Diseases, WHO, and Fondation Merieux: A Metrics-Based Evaluation of One Health: Toward Control of Vector Borne Diseases in the Context of Climate Change

SPS

TIME

Monday 2 November, 10:00 - 12:00 CET

TRACK

Special Partner Sessions

CHAIRS

Bernadette Ramirez, World Health Organization
Valentina Picot, Fondation Mérieux

PROGRAMME

- Fundamentals of One Health: The operational challenge to intervention design and implementation**
Bruce Alexander Wilcox, Global Health Group International, Thailand
- Capacity building for a metrics-based evaluation of One Health**
Carsten Richter, Global Health Group International, Germany
- Panel discussion: Toward building competencies for operationalizing One Health**
Moses John Chimbari, University of KwaZulu-Natal, South Africa
- Panel discussion: Toward building competencies for operationalizing One Health**
Benson B.A. Estambale, Jaramogi Oginga Odinga University of Science and Technology, Kenya
- Panel discussion: Toward building competencies for operationalizing One Health**
Paul Simon Gwakisa, Sokoine University of Agriculture, Tanzania
- Panel discussion: Toward building competencies for operationalizing One Health**
Brama Kone, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire & University Peleforo Gon Coulibaly of Korhogo, RCI, Côte d'Ivoire

Monday 2 November, 12:00 - 14:00 CET

Challenges for AMR action

AMR

TIME

Monday 2 November, 12:00 - 14:00 CET

TRACK

Antimicrobial Agents and Resistance

CHAIR

Robert Skov, International Centre For Antimicrobial Resistance Solutions

PROGRAMME

- Information communication technology (ICT) for antimicrobial resistance (AMR) surveillance, diagnostics, research capabilities, and patient outcomes**
Ashley Bersani, The Ohio State University Global One Health Initiative, United States of America
- Mind the Gap: Gendered Approaches to Antimicrobial Resistance**
Linda Waldman, Institute of Development Studies, United Kingdom
- Optimising AMR surveillance resource allocation: strategic sequencing of One Health AMR surveillance activities to support the design and evaluation of AMR mitigation policies and programmes in resource-limited countries**
Joanna Susan Mckenzie, mEpiLab, School of Veterinary Science, Massey University, New Zealand
- Intervention and implementation research as a driver for AMR mitigation in LMICs**
Robert Skov, ICARS, Denmark

Monday 2 November, 12:00 - 14:00 CET

Surveillance of infectious diseases in humans, animals and plants

OHS

TIME

Monday 2 November, 12:00 - 14:00 CET

TRACKS

One Health Science, Global Health Security

CHAIRS

Marietjie Venter, Head: Zoonotic arbo- and Respiratory virus Research program, Centre for Viral Zoonosis
Mark Rweyemamu, SACIDS Foundation for One Health

PROGRAMME

- One Health epidemiology of Shunivirus, an emerging orthobunyavirus from Africa.**
Marietjie Venter, Zoonotic arbo- and Respiratory virus Research program, Centre for Viral Zoonosis, South Africa
- Surveillance of Potential Zoonotic Virus and Behavioral Risk Assessment in High-Risk Communities in Tanzania**
Grace Wynn Mwangoka, Ifakara Health Institute, Tanzania **GOS**
- Spillover of ebolaviruses into people in Eastern Democratic Republic of Congo prior to the 2018 Ebola Virus Disease Outbreak**
Tracey Goldstein, University of California Davis, United States of America **GOS**
- The Future of One Health Surveillance Lies Directly With The Communities It Serves**
Mark Smollinski, Ending pandemics, United States of America
- Informing resilience building: FAO's Surveillance Evaluation Tool (SET) Biothreat Detection Module will help assess national baseline capacities to detect agro-terrorism and agro-crime**
Gisela Giola, Food and Agriculture Organization of the United Nations (FAO)

Monday 2 November, 12:00 - 14:00 CET
Operational frameworks

SPI

TIME
 Monday 2 November, 12:00 - 14:00 CET

TRACK
 Science Policy Interface

CHAIRS
 Osman Dar, Chatham House Centre on Universal Health
 Lisa Boden, University of Edinburgh

- PROGRAMME:
- 1. Walking the Talk: One Health Operationalization in the Free State, South Africa**
 Claudia Cordel, ExecuVet Pty Ltd, South Africa
 - 2. One Health Units for Humans, Environment, Animals and Livelihoods (HEAL) to ensure healthy people derive their livelihoods from healthy livestock in a sustainably managed environment**
 Diana Onyango, Veterinaires Sans Frontieres - Suisse, Ethiopia (VSF-Suisse)
 - 3. A One Health multi-sectoral national strategy for Brucellosis prevention and control in Kenya**
 Mark Nanyingi, Institute of Infection and Global Health, Department of Epidemiology and Population Health, University of Liverpool, United Kingdom; School of Public Health, University of Nairobi, Kenya
 - 4. One Health Stakeholder Initiatives**
 Jomana Musmar, US Department of Health and Human Services, United States of America

Monday 2 November, 14:00 - 16:00 CET
Special Partner Session jointly organized by Bavarian Nordic and the One Health Platform: Human orthopox viruses – an emerging public health threat

SPS GOS

TIME
 Monday 2 November, 14:00 - 16:00 CET

LIVE 

TRACKS
 Special Partner Sessions, Global Health Security

CHAIRS
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform
 Bernard Hoet, Bavarian Nordic

- PROGRAMME:
- 1. Introduction**
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany
 - 2. One Health perspective of disease prevention**
 Richard Kock, Royal Veterinary College, England
 - 3. After smallpox, what next? WHO perspective on orthopoxviruses**
 Rosamund Lewis, World Health Organization, Switzerland
 - 4. Monkeypox disease and its spreading**
 David Heymann, LSHTM, United Kingdom
 - 5. Monkeypox disease – the clinical picture**
 Chikwe Ihekweazu, Nigeria Centre for Disease Control, Nigeria
 - 6. A vaccine to prevent several Orthopox diseases**
 Heinz Weidenthaler, Bavarian Nordic GmbH, Germany
 - 7. Key highlights of the symposium and Q&A (chat-box)**
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany

Monday 2 November, 16:00 - 16:30 CET
Keynote Lecture: How to prepare for the next influenza pandemic? Antivirals & Biological Response Modifiers as one of the cornerstones of pandemic planning

KEY

TIME
 Monday 2 November, 16:00 - 16:30 CET

TRACK
 Keynote lectures

SPEAKER
 Michael Ison, Northwestern University

Monday 2 November, 16:00 - 18:00 CET
Capacity building

AMR

TIME
 Monday 2 November, 16:00 - 18:00 CET

TRACK
 Antimicrobial Agents and Resistance

CHAIR
 Kitty Healey, Veterinary Medicines Directorate, UK

- PROGRAMME:
- 1. Animal Medicines Best Practice (AMBP) Programme – AMR Capacity Building with Farmer Training in the Responsible Use of Antibiotics**
 Grace Margaret O'Gorman, National Office Animal Health (NOAH), England
 - 2. The UK FAO Reference Centre for Antimicrobial Resistance: delivering capacity building support to low and middle income countries**
 Roderick Card, Animal and Plant Health Agency, United Kingdom
 - 3. Strengthening One Health AMR and AMU surveillance in low and middle income countries: major needs and constraints**
 Natalie Moyen, Mott MacDonald, United Kingdom
 - 4. Rx One Health Field Institute: Competency-Based, Experiential Education for the Next Generation of One Health Practitioners**
 Jennifer Lane, University of California, Davis, United States of America

Monday 2 November, 16:00 - 18:00 CET

Determinants of inter-species and intra-species transmissibility of infectious agents

OHS

TIME
Monday 2 November, 16:00 - 18:00 CET

TRACK
One Health Science

CHAIRS
Jonna Mazet, University of California, Davis
Anna Meredith, University of Melbourne/University of Edinburgh

PROGRAMME:

- 1. Sounding the zoonotic potential of currently circulating swine influenza A viruses in Europe**
Annika Graaf, Friedrich-Loeffler-Institute, Germany
- 2. Livestock and the epidemiology of sleeping sickness: mechanisms and implications**
Julianne Melsner, University of Washington, Seattle, United States of America
- 3. Mapping inter- and intra- species transmission of morbilliviruses: a genus wide analysis**
Dalan Bailey, The Pirbright Institute, UK

Monday 2 November, 16:00 - 18:00 CET

Risk reduction frameworks/Global Health Security

SPI

TIME
Monday 2 November, 16:00 - 18:00 CET

TRACKS
Science Policy Interface, Global Health Security

CHAIRS
Trevor Smith, Global Affairs Canada
Michael Ryan, World Health Organisation

PROGRAMME:

- 1. A regional approach to health emergencies: The ASEAN EOC Network**
Chee Kheong Chong, Ministry of Health Malaysia, Malaysia **GOS**
- 2. ASEAN Architecture in Responding to All Hazards and Emerging Threats: ASEAN Health Sector Perspective in Multi-sectoral and Multi-stakeholder Cooperation**
Ferdinal Moreno Fernando, ASEAN Secretariat, Indonesia **GOS**
- 3. Joint External Evaluation of Finland: enhancing health security through a comprehensive whole-of-government approach**
Simo Nikkari, Professor and Director at Centres for Biothreat Preparedness and Military Medicine, Finland **GOS**
- 4. Pandemic Preparedness Planning in Peacetime: what is missing?**
Ab Osterhaus, Research Center for Emerging Infections and Zoonoses, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany

Monday 2 November, 18:00 - 20:00 CET

Special Partner Session organized by VAXVOX: What Vaccination means for mankind: Past, present and future

SPS

TIME
Monday 2 November, 18:00 - 20:00 CET

TRACK
Special Partner Sessions

CHAIR
Pierre Van Damme, University of Antwerp

PROGRAMME:

- 1. Some of the myths - and a lot of facts - about vaccination**
Sarah Gilbert, University of Oxford, United Kingdom
- 2. How polio vaccination prevented 1.5 million childhood deaths and how it was like to live with polio**
Pierre Van Damme, University of Antwerp, Belgium
- 3. "The speckled monster" - smallpox: from widespread to wiped out. An extraordinary triumph of vaccination and human will**
José Esparza, University of Maryland School of Medicine, United States of America
- 4. Why the measles vaccine is one of the best buys in public health and how we are backsliding the progress made**
Helen Bedford, University College London, United Kingdom
- 5. The substantial health impact of tetanus vaccination in the world and the need to maintain high vaccination coverage levels to contain tetanus**
Noni Macdonald, Dalhousie University, Canada
- 6. Vaccination of man and other animals against rabies**
Byron Martina, Artemis One Health Research Foundation, Netherlands, The
- 7. What happens when we don't vaccinate against influenza?**
Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany
- 8. Let's talk emotions: why do people not get vaccinated?**
Emilie Karafillakis, The Vaccine Confidence Project, London School of Hygiene & Tropical Medicine, United Kingdom

supported by **ESWI**

Monday 2 November, 20:00 - 20:30 CET
Keynote lecture: Environmental sampling in SARS-CoV-2 infected mink farms and in the surroundings COV KEY

TIME
 Monday 2 November, 20:00 - 20:30 CET

TRACKS
 SARS-CoV-2 / COVID-19, Keynote lectures

SPEAKER
 Myrna M.T. de Rooij, Utrecht University

PROGRAMME
 1. Environmental sampling in SARS-CoV-2 infected mink farms and in the surroundings
 Myrna M.T. de Rooij, Utrecht University

Monday 2 November, 20:00 - 20:30 CET
Keynote lecture: Case-fatality rate of COVID-19 is declining since May 2020 COV KEY

TIME
 Monday 2 November, 20:00 - 20:30 CET

TRACKS
 SARS-CoV-2 / COVID-19, Keynote lectures

SPEAKER
 Mohammad Nayeem Hasan, Shahjalal University of Science and Technology

PROGRAMME
 1. Case-fatality rate of COVID-19 is declining since May 2020
 Mohammad Nayeem Hasan, Department of Statistics, Shahjalal University of Science and Technology, Sylhet 3114, Bangladesh

Monday 2 November, 20:00 - 20:30 CET
Keynote lecture: The Next One Health Frontier: Why we should all be talking about climate-resilient food systems KEY

TIME
 Monday 2 November, 20:00 - 20:30 CET

TRACK
 Keynote lectures

SPEAKER
 Dominique Charron, IDRC

Monday 2 November, 20:00 - 22:00 CET
Environmental exposures: Water and wastewater AMIR

TIME
 Monday 2 November, 20:00 - 22:00 CET

TRACK
 Antimicrobial Agents and Resistance

CHAIR
 Marcos Quintela-Balaja, Newcastle University

PROGRAMME
 1. Risk of colonisation with antibiotic resistant bacteria in healthy adults: a One Health study of extended spectrum β -lactamase-producing *E. coli* in humans, poultry and the environment
 Emily Kate Rousham, Loughborough University, United Kingdom

2. Dispersion and survival of pathogenic and antibiotic-resistant *Escherichia coli* in floodplain wetlands
 Charles P. Henriot, UMR CNRS 6249 Chrono-environnement, Université de Franche-Comté, France

3. Antibiotic resistance related to Water, Sanitation and Hygiene: Global exposure and burden of disease to ESBL - top-down and bottom-up approaches
 Heike Schmitt, National Institute for Public Health and the Environment (RIVM), The Netherlands

4. Source tracking and predicting antibiotic resistance exposures along two SE Asian rivers with inconsistent wastewater management
 David Graham, Newcastle University, England

Monday 2 November, 22:00 CET
Recap of the day LIVE 6

TIME
 Monday 2 November, 22:00 CET

TUESDAY 3 NOVEMBER 2020

Tuesday 3 November, 09:00 - 09:10 CET
Good morning with Ab Osterhaus

TIME
 Tuesday 3 November, 09:00 - 09:10 CET

LIVE 

Tuesday 3 November, 10:00 - 12:00 CET
Special Partner Session organized by WHO Health Emergencies and Preparedness: Strengthening collaboration between human and animal health for improved health security

SFS GOS

TIME
 Tuesday 3 November, 10:00 - 12:00 CET

LIVE 

TRACKS:
 Special Partner Sessions, Global Health Security

CHAIR:
 Stéphane De La Rocque, WHO

- PROGRAMME:
- 1. Introduction to the Session: Overview of global context and strategic approaches adopted by WHO and the tripartite**
 Stéphane De La Rocque, WHO, Switzerland
 - 2. Bridging international frameworks to strengthen the collaboration at the Human-Animal Interface**
 Guillaume Belot, World Health Organization, Switzerland
 - 3. Guidance and operational tools to support countries in building capacities**
 Kaylee Myhre Errecaborde, World Health Organisation, United States of America
 - 4. Joint simulation exercise to test and improve coordinating capacities**
 Frederik Copper, WHO, Switzerland
 - 5. Return of experience and regional perspectives**
 Artem Skrypnik, WHO, Ukraine

Tuesday 3 November, 12:00 - 14:00 CET
Use of antibiotics

AMR

TIME
 Tuesday 3 November, 12:00 - 14:00 CET

TRACK:
 Antimicrobial Agents and Resistance

CHAIR:
 Marc Mendelson, University of Cape Town

- PROGRAMME:
- 1. Quantification of antimicrobial use (AMU) and its ineffective impact prophylactic AMU and a palliative effect of therapeutic AMU in small-scale chicken flocks in the Mekong Delta of Vietnam**
 Cuong Nguyen Van, Oxford University Clinical Research Unit (OUCRU), Vietnam
 - 2. Collating veterinary antimicrobial sales data for 192 dairy farms in south west England; and utilising the data to alter antimicrobial decision making on farm**
 Alasdair Moffett, Synergy Farm Health Ltd, England
 - 3. How AI can help with antibiotic decision-making in hospitals**
 Bernard Hernandez-Perez, Imperial College London, United Kingdom
 - 4. A unique approach to reducing antimicrobial use in UK dairy farms using a novel mastitis detection method as part of an integrated selective dry cow therapy veterinary practice service**
 Ian Cure, UK Farm Vets, Lancashire, United Kingdom

Tuesday 3 November, 12:00 - 14:00 CET
Pathogenesis of newly emerging infections

OHS

TIME
 Tuesday 3 November, 12:00 - 14:00 CET

TRACK:
 One Health Science

CHAIRS:
 Pijp Beard, The Pirbright Institute
 Ross Fitzgerald, University of Edinburgh

- PROGRAMME:
- 1. Staphylococcus aureus at the human-animal interface**
 Ross Fitzgerald, University of Edinburgh, United Kingdom
 - 2. Predictors of mortality among Middle East Respiratory Syndrome coronavirus (MERS-CoV) patients globally: A retrospective cohort study from 2017-2019**
 Paul Otieno Yonga, Baringo County Referral Hospital, Fountain Health Care Hospital, Kenya
 - 3. Genetically and antigenically divergent influenza A(H9N2) viruses exhibit differential replication and transmission phenotypes in mammalian models**
 Jessica A Belsler, Centers for Disease Control and Prevention, United States of America
 - 4. Respiratory explants from alpacas as a tool for studying the Middle East respiratory syndrome coronavirus (MERS-CoV) infection in camels**
 Jordi Rodon, Institut de Recerca i Tecnologia Agroalimentàries (IRTA), Centre de Recerca en Sanitat Animal (CRESA), Campus de la Universitat Autònoma de Barcelona, Spain

Tuesday 3 November, 12:00 - 14:00 CET
Civil society participation / risk communication SPI

TIME
 Tuesday 3 November, 12:00 - 14:00 CET

TRACK
 Science Policy Interface

CHAIRS
 Shannon Nolan, Department for Environment, Food and Rural Affairs
 Christianne Brusckie, Ministry of Agriculture, Nature and Food Quality

- PROGRAMME:
- Community mapping and engagement to co-create a One Health conceptual diagram of under-5 (U5) infections in urban slums for the Childhood Infection and Pollution (CHIP) Consortium**
 Prof Monica Lakhanpaul, UCL Great Ormond Street Institute of Child Health, United Kingdom
 - Establishing knowledge, attitudes and practices of Australian general practitioners and veterinarians to develop interventions to improve preparedness for zoonoses related health emergencies**
 Sandra Steele, University of Sydney, Australia
 - Risk practices for bovine tuberculosis transmission to cattle and livestock farming communities living at wildlife-livestock-human interface in northern KwaZulu Natal, South Africa**
 Petronillah Rudo Sichewo, University of Pretoria, South Africa; Midlands State University, Zimbabwe
 - Community Engagement and Longevity of Zoonotic Disease Knowledge in Rural Uganda: A Mixed-Methods Approach**
 Sarah Paige, CORE Group, United States of America
 - Intensive Livestock Farming: Is the risk for human health really the problem? Perceptions of scientists, residents and farmers**
 Valerie Eijrond, Amsterdam UMC, Vrije Universiteit Amsterdam, Department of Public and Occupational Health, The Netherlands

Tuesday 3 November, 13:00 - 15:30 CET
VAXVOX - Science Talks - Why do we have measles epidemics in 2020?! Press Event VAX

TIME
 Tuesday 3 November, 13:00 - 15:30 CET

TRACK
 Vaccination

CHAIR
 Pierre Van Damme, University of Antwerp

- PROGRAMME:
- What vaccination means for mankind**
 Pierre Van Damme, University of Antwerp, Belgium
 - What are immunization programmes: an overview**
 Siddhartha Sankar Datta, WHO Regional Office for Europe, Denmark
 - How is a vaccine included in immunization programmes: procedure**
 Andrew Pollard, Oxford Children's Hospital, United Kingdom
 - Covid 19 vaccination update**
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany
 - What needs to be done?**
 Pierre Van Damme, University of Antwerp, Belgium

The programme will be followed by a Fire Away: you ask, our panel responds

Please follow this link to register for this press event: vaxvox.org/registration
 Journalists registering for our VAXVOX event, get a free #WOHC2020 access key

Tuesday 3 November, 14:00 - 16:00 CET
New antimicrobials and vaccination as a tool in AMR reduction AMR

TIME
 Tuesday 3 November, 14:00 - 16:00 CET

TRACKS
 Antimicrobial Agents and Resistance, Vaccination

CHAIRS
 David Heymann, LSHTM
 Faye Ioannou, European Commission

- PROGRAMME:
- A novel "one pot" method to aid in the production of low cost recombinant glycoconjugate vaccines**
 Elizabeth Rose Atkins, London School of Hygiene and Tropical Medicine, United Kingdom
 - Structure and mode of action of the extreme-narrow spectrum antibiotic pyocin S5 against Pseudomonas aeruginosa**
 Hannah M Behrens, University of Oxford, UK
 - Effect of vaccination on the use of antimicrobial agents - a systematic review**
 Timothy Mark Doherty, GSK Vaccines, Wavre, Belgium
 - The role of preventative fish health management in sustainable aquaculture production and its importance in a One Health context**
 Ben North, PHARMAQ (part of Zoetis), Norway

VAX

Tuesday 3 November, 14:00 - 16:00 CET
Epidemiology of newly emerging infections

OHS

TIME
 Tuesday 3 November, 14:00 - 16:00 CET

TRACKS
 One Health Science, Global Health Security

CHAIRS
 Lawrence Madoff, International Society for Infectious Diseases
 Julianna Lenocho, USDA

PROGRAMME
 1. **Predictors of first detection of human RNA virus species in the United States, China and Africa**
 Feifei Zhang, University of Edinburgh, United Kingdom

GOS

2. **Ongoing occurrence of invasive *Streptococcus agalactiae* ST283 in humans in Singapore, despite a ban on raw ready-to-eat fresh water fish**
 Timothy Barkham, Tan Tock Seng Hospital, Singapore

3. **Serological evidence and epidemiological risk-factor analysis of Crimean Congo Haemorrhagic Fever in cattle in Cameroon**
 Lina Maria Gonzalez, The Roslin Institute, University of Edinburgh, Easter Bush, Midlothian, United Kingdom

4. **Rift Valley fever virus seroconversions humans and animals during an interepidemic period**
 Mellinda K Rostal, EcoHealth Alliance, United States of America; Institute of Biodiversity, Animal Health & Comparative Medicine, University of Glasgow, Scotland

Tuesday 3 November, 16:00 - 16:30 CET
Keynote lecture: Why is One Health science important to secure global health security and how can One Health Science contribute to making policy?

KEY GOS

TIME
 Tuesday 3 November, 16:00 - 16:30 CET

TRACKS
 Keynote lectures, Global Health Security

SPEAKER
 Robert Pope, Defense Threat Reduction Agency (DTRA)

Tuesday 3 November, 16:00 - 18:00 CET
Late Breakers: novel and outstanding scientific discoveries

LIVE 6

TIME
 Tuesday 3 November, 16:00 - 18:00 CET

CHAIR
 Ottorino Cosivi, Pan American Center for Foot-and-Mouth Disease and Veterinary Public Health (PANAFTOSA/VPH)

- PROGRAMME
- The Use of epicPCR to Study Antimicrobial Resistance Genes and Their Bacterial Hosts in Human Impacted Environments in West Africa**
 Anniina Sarekoski, University of Helsinki, Finland
 - SpillOver: Ranking the risk of viral spillover from animals to humans**
 Zoe Lorraine Grange, One Health Institute and Karen C. Drayer Wildlife Health Center, School of Veterinary Medicine, University of California, Davis, 95616, California, USA
 - Investigating Molecular Epidemiology of Antimicrobial Resistance in One-Health Continuum using Genomics**
 Rahat Zaheer, Lethbridge Research and Development Centre, Agriculture and Agri-Food Canada, Canada
 - Mobilizable colistin resistance genes in *Acinetobacter baumannii* - a new emerging risk for public health?**
 Jens Andre Hammerl, German Federal Institute for Risk Assessment, Germany

Tuesday 3 November, 18:00 - 20:00 CET
Closing remarks

LIVE 6

TIME
 Tuesday 3 November, 18:00 - 20:00 CET

CHAIRS
 John Mackenzie, Curtin University, Australia, Co-founder One Health Platform Foundation
 Lisa Boden, University of Edinburgh
 Ab Osterhaus, RIZ, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform

- PROGRAMME
- What is One Health day? One Health Day 2019 Student competition winners announcement**
 Cheryl Stroud, One Health Commission, United States of America
 - One Health day winner UC Davis presentation**
 Laura Shultz, University of California, Davis, United States of America
 - Highlights of the Congress**
 John Mackenzie, Curtin University, Australia, Co-founder One Health Platform Foundation, Australia
 - Highlights of the Congress**
 Lisa Boden, University of Edinburgh, United Kingdom
 - The 7th World One Health Congress announcement**
 Linfa Wang, Duke-NUS Medical School, Singapore
 - The 7th World One Health Congress announcement**
 Vernon Lee, Ministry of Health, Singapore

We offered all our partners a Partner’s Hub – virtual pages where they could present themselves. Hubs were connected to the personal profile pages of representatives of the partners and sessions connected to the partner.

In total we hosted 28 hubs:

- Zoetis
- ZELS
- World Vaccine Congress
- WHO
- WHO/Fondation Mérieux
- VAXVOX
- University of Glasgow
- University of Edinburgh
- Fleming Fund
- BMJ
- VetRed
- Bloomsbury
- Sefari
- SACIDS
- OH Outlook
- OHP
- One Health EJP
- One Health Commission
- International Society for Vaccines
- ISID
- IDRC
- Moore Foundation
- GAC
- ESWI
- Elsevier
- DTRA
- Bavarian Nordic
- Asclepius
- Africa CDC

The One Health Platform Fellowship Programme was founded to provide select early career researchers and scientists from low- and middle-income countries the opportunity to share their research, to gain skills and experience. The Fellowship Programme aims at building the capacities of young promising researchers in developing countries through networking and engaging with counterparts and world-class scientists in their field.



They will develop professional relationships within a global network of One Health, public health and global health security experts, thus gain invaluable experience on a world stage.

The Fellowship Programme is funded through donations from not-for-profit organizations, charitable foundations as well as government agencies. The US Defense and Threat Reduction Agency contributed the majority of the funding for the 6th World One Health Congress Fellowship Fund. In close consultation with DTRA, grants will primarily be awarded to excellent young scientists from LMIC based on the strength of their abstract, their commitment to give back to their communities, and use their learning experience as agents of change in the public and scientific sector of their country of origin.

The programme connects fellows to a rich network of scientists, public health officials and global health security experts to help them consider best practices and lessons learned and reflect on and enhance their One Health advocacy promotion efforts in their home countries.

