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 our 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

Webinar: Risks of future pandemic threats and how to prepare

Programme:
1. Global Health security aspects of the animal-human interface
   Rebecca Sapp, Georgia State University, Atlanta, USA
2. Role of animal reservoirs for zoonotic disease threats
   William Burgdorfer, University of Tennessee, USA
3. Threats from the animal-human reservoir
   Richard Neil, Royal Veterinary College, UK
4. How to prepare for the next pandemic?
   Jens Wutzler, World Health Organisation, Geneva

Webinar: Managing a raging pandemic: a steep learning curve

Programme:
1. Where is the SARS-CoV-2 going from here?
   Justin Holmes, University of Sydney, Australia
2. Public Health Strategies: mitigation versus elimination strategies
   Ali Dosteen, Lister Institute, London, UK
3. Developing Therapies
   Jack Verdun, International Alliance for Biological Standardisation, Belgium
4. Vaccine development
   Arnaud Chevalier, OIP, United Kingdom
Friday 30 October, 10.00 - 12.00 CET
Opening ceremony

TIME: Friday 30 October, 10.00 - 12.00 CET

CHAIR: Lise Bade, University of Edinburgh
John Mackenzie, Currin 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 - Scally Lecture
Judy MacArthur-Clark, The Scally Foundation, United Kingdom

3. Scally lectures: Global diplomacy and security: One health in the 21st century
William Kissick, Georgetown University, United States of America

4. Introduction of the Scally Traveling Fellowship programme
Karen Scally Bulluck, The Scally Foundation, United Kingdom

5. The One Health Approach as fundamental competency for resilient veterinary services
Matthew Gleave, World Organization for Animal Health, France

6. Reduce the impact of public health threats at One Health Approach
Yewwww Young, Food and Agriculture Organization of the United Nations

7. Opening keynote lecture by the Director-General of the WHO
Tedros Adhanom Ghebreyesus, World Health Organization, Switzerland

Friday 30 October, 12.00 - 14.00 CET
Keynote lecture: Long-distance airborne dispersal of SARS-CoV-2 in COVID-19 wards

TIME: Friday 30 October, 12.00 - 14.00 CET

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

SPONSOR: Janina Kramendrick, Uppsala University

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

Friday 30 October, 12.00 - 14.00 CET
Keynote lecture: Scotland’s response to COVID-19

TIME: Friday 30 October, 12.00 - 14.00 CET

TRACK: Keynote lectures

SPONSOR: Jackson Lamb, Scottish Government

Friday 30 October, 12.00 - 14.00 CET
Water and wastewater: Tackling and treatment of AMR

TIME: Friday 30 October, 12.00 - 14.00 CET

TRACK: Antimicrobial Agents and Resistance

SPONSOR: David Gilmour, Newcastle University

PROGRAMME:
1. Attributable sources of community-acquired 3rd and 4th generation resistance: A One Health modelling study
Lapo Mognin-Eens, Dutch National Institute for Public Health and the Environment (RIVM), The Netherlands

2. Genomic, Metagenomic and Correlational Analysis of E. coli from Environmental Samples in Nigeria to be Novel Resistant to Antimicrobial Resistance Drug Partly to Heavy Metal Pollution:
Gilbert Okeke, University of Ibadan, Nigeria

3. Contribution of different treatment technologies to reducing total and viable cell ARIs from discharged wastewater
Panagiotis Alevromitros, Newcastle University, United Kingdom

4. Characterization of the microbial resistance of a sheep farm: A sewage-sludge experimental model
Nina Alexandre Melo Silva, Membran Research Institute, United Kingdom
### Emerging Infections: discovery platforms and diagnostics (ORS)

**Title:** Emerging Infections: discovery platforms and diagnostics  
**Track:** One Health Science, Global Health Security

**Chair:** Leah Wang, Eberly Medical School  
Ali Osterhaus, IL, University of Veterinary Medicine, Netherlands, Germany and chair One Health Platform

**Programme:**
1. *Rapid and sensitive diagnostic technologies for point-of-care sequencing*  
   Anke Petermann, Friedrich-Ludwig-Jahn Institute, Institute of Veterinary Virology, Germany

2. *Prevalence and Genetic Diversity of Novel Coronavirus in bats, Bangladesh*  
   Anwar Hossain, Dartmouth-Hitchcock Medical Center, USA, Bangladesh Centre for Integrated Ecology, School of Life and Environmental Sciences, Deakin University, Australia

3. *SARS-CoV-2 viral RNA detection in bats in close contact with humans in a rural setting*  
   Aman Kaur, Institute of Veterinary Virology, Germany

4. *Aetiology of livestock abortions in northern Tanzania*  
   Kathriner J. Allen, University of Glasgow, United Kingdom

### Barriers and Impact of AMR (AMR)

**Title:** Barriers and Impact of AMR  
**Track:** Antimicrobial Agents and Resistance

**Chair:** Mark Westhues, The University of Edinburgh

**Programme:**
1. *Global trends in antimicrobial resistance in animals in low- and middle-income countries*  
   Francesca Porta, Eberly Medical School, USA, Interuniversity Task Force on Antimicrobial Resistance, Switzerland

2. *Prevalence and genetic diversity of Listeria monocytogenes in children in five years in Hong Kong: a foodborne and whole genome sequencing analysis of serotypes and antimicrobial resistance*  
   Mei Tung Kao, J. C. School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong SAR, China

3. *The global burden of leprosy, a neglected disease: a multi-national population-based study*  
   Michelle M. H. Morin, Department of Population Medicine, University of Guelph, Ontario, Canada

4. *AMR: Disease and economic burden and risk mitigation efforts in the animal sector*  
   Joergen Schinns, Nanyang Technological University Food Technology Centre (NAFTEC), Singapore

### Understanding the social context of One Health (ORS)

**Title:** Understanding the social context of One Health  
**Track:** One Health Science

**Chair:** Josep F. Forteza, University of Girona  
Jakub Zimroz, Swiss Tropical and Public Health Institute

**Programme:**
1. *Assessment of the pyschosocial impact of disease eradication on farmers and rural communities impacted by disease insurmountable*  
   Mark Bryans, Vet NZ, New Zealand

2. *Combining ethnography, behavioral experiments and epidemiological modeling in One Health: a proof of concept*  
   Giuditta M. Formenty, Royal Veterinary College, United Kingdom

3. *Visible and invisible risks in the health: exploring washing and hygiene practices with women living in low-income in bangladesh*  
   Jude d’Rozarios, University of Guelph, Ontario, Canada

   Kevin Burrell, University of Washington, United States of America
### SPI

**Time:** Friday, 30 October, 14:00 - 16:00 CET  
**Track:** Science-Policy Interface  
**Chair:** Siân Watson, Queen’s University Belfast  
**Speaker:** Lawrence Wadsworth, International Society for Infectious Diseases

**Programme:**

1. An integrative approach to understanding AMR in New Zealand: development of a shared causal understanding  
   Pamela Prince, University of Otago, New Zealand

2. Capacities of African countries to tackle global threat of antimicrobial resistance from the One Health perspective  
   Mohamed Moustafa Mousioua, ICTI, Infectious Disease Detection and Surveillance (IDD), Yaoundé, Cameroon

3. US-India–Japan–China–EU Collaboration on One Health: New Opportunities to Strengthen Multilateral Cooperation  
   Lawrence Wadsworth, International Society for Infectious Diseases, United States of America

4. One Health for the U.S. Strategic to Collaborate and Combat Antimicrobial Resistance  
   Jamieson Wyman, US Department of Health and Human Services, United States of America

---

### SPS

**Time:** Friday, 30 October, 16:00 - 18:00 CET  
**Track:** Special Partner Sessions  
**Chair:** Theo Konaflos, Zoetis

**Programme:**

1. One Health: A Key Approach to Sustainability in Animal Health  
   Declan Kelly, Zoetis, Ireland

2. Introduction by the chair  
   Theo Konaflos, Zoetis, Ireland

3. Veterinary vaccines and their impact on One Health  
   Mohsen Kheirandish, Zoetis, United States of America

4. How to address One Health issues with veterinary vaccination – Norwegian approach from aquaculture to AMR  
   Kjell Ravnengen, Norwegian Food Safety Authority

5. Strengthening the USDA One Health Approach: The National Bio and Ag Defense Facility  
   Kimberly Gold, USDA-APHIS, United States of America

6. Animal Health Contributions to Contraception Control  
   John Hansbrough, Zoetis Inc., United States of America

7. Sustainable World Health: In Practice - managing the balance  
   Jonathan Stotham, BiAT Salutaris Ltd, England

8. Novel data insights: what can they do to address emerging challenges from human-animal interactions?  
   Jason Weideman, BiAT Salutaris, Ireland

---

### COV KEY

**Time:** Friday, 30 October, 16:00 - 18:30 CET  
**Track:** Keynote Lectures: Covid-19 Virology  
**Speaker:** Stefan Kohlmeier, Leibniz-Institut für Materialwissenschaft

**Programme:**

   Stefan Kohlmeier, Leibniz-Institut für Materialwissenschaft, 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 SIERRA

Title:
Friday 30 October, 18:00 – 20:00 CET
Track:
special partner sessions
Chair:
Lisa Baden, University of Edinburgh

1. Introduction to MEdH, and One Health
Lisa Boden, University of Edinburgh, UK, United Kingdom

2. "Someแฟก is not and cannot eat, and some need eat that want it." What do Scots want for the future of food and farming?
Elizabeth Rees Jones, Moredun Research Institute, United Kingdom

3. One Health Approaches to Emergent infections under Climate Change and Threats to biodiversity
Richard Kee, 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?
Lo Swan, 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 Aetopio.co One Health and the One Health Platform

Title:
Friday 30 October, 18:00 – 20:00 CET
Track:
special partner sessions
Chair:
Ale Dienerhuys, FEI, University of Veterinary Medicine, Hanover, Germany and Chair One Health Platform
Anna Papa, Medical School, Aristotle University of Thessaloniki

1. Vision of Aetopio One Health
Eleni Parnikou, Aetopio One Health, Greece

2. The Importance of One Health from a Sociopolitical Aspect
George Papakonstantinou, Co-Minister of Greece; President of the Socialists International, Greece

3. One Health: in practice in Greece International Committee
Harrietti Laguma, President of the World Veterinary Association, Spain

4. One Health-Healthy Animals=Healthy People
Anthea Fyffe, Vice President of European Veterinary Practitioners; President of Hellenic Veterinary Association

5. Zoonotic and Arthropod Diseases - a Continuous Health Threat for Greece
Anna Papa, Medical School, Aristotle University of Thessaloniki, Greece

6. Zoonotic and Arthropod Diseases - a Continuous Health Threat for Greece
Sava Zavitsaki, Head of Institute Hellenic Agricultural Organization DEMETER, Greece

7. Antimicrobial Resistance - An International Challenge with Local Solutions
Fermontinnou, National Public Health Organization (NPHG), Greece

8. Antimicrobial Resistance - An International Challenge with Local Solutions
Savvage Karakol, University of Thessaly, Greece

9. Conclusions - Important Regional Solutions for One Health
Three Kariotis, Zetos, Ireland, Co-Chair The One Health Committee of the Hellenic Veterinary Association

10. Closing
Eleni Parnikou, Aetopio One Health, Greece

Friday 30 October, 18:00 – 20:00 CET
Recap of the day / Catch-up with Lisa Baden, #001206229 Co-Chair, Live from Edinburgh

Title:
Friday 30 October, 18:00 – 20:00 CET
Track:

Chair:
Lisa Baden, University of Edinburgh

1. Recap of the day / Catch-up with Lisa Baden, #001206229 Co-Chair, Live from Edinburgh

2. Discussion

3. Closing
SATURDAY 31 OCTOBER 2020

**Keynote Lecture: Global Health Security: Preparing and Responding to Novel Zoonoses**

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

**TALK:**
Keynote lecture: Global Health Security

**SPEAKER:**
Kerney Y. Freedberg, Gaviat and Betty Meahl Foundation

**Pathogenesis and clinical manifestations**

**TIME:**
Saturday, 31 October, 09:45 - 10:00 CET

**TALK:**
SARS-CoV-2 COVID-19 Global Health Security

**SPEAKER:**
Lindiwa Wang, Duke-NUS Medical School

**PROGRAMME:**
1. Baseline metabolic panel predictors of SARS-CoV-2 outcomes in a population of over 50s
   Maggie Phillips, St Mary’s Hospital, Imperial College London, London, United Kingdom

2. Can BCG vaccine participate in the fight against SARS-CoV-2?
   Michel Revello, ASSESSSANT ASSOCIATION LYONNAise pour le COOPERATION FRANco-RUSSe, CULTURELLE et SANITAIRE, France

3. Immunological symptoms involvement in hospitalized COVID-19 patients in Liverpool, UK: a descriptive cross-sectional, single-centre study
   Gemma Keen-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

**Good morning with Ali Osterhaus**

**TIME:**
Saturday, 31 October, 09:45 - 10:15 CET

**AMR**

**TIME:**
Saturday, 31 October, 13:00 - 13:30 CET

**TALK:**
Antimicrobial Agents and Resistance

**SPEAKER:**
Johann Schirmer, Schirmer Consult
Jose Wagemann, Utrecht University

**PROGRAMME:**
1. First report of New Delhi metallo-
   beta-lactamase-producing E. coli in a dog in British Columbia, Canada with link to a human case using whole genome sequencing
   Ernie Fraser, Communicable Disease and Immunization Services, 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 Frerichs, School of Veterinary Science, Massey University, Palmerston North, New Zealand; One Health Aotearoa, New Zealand; New Zealand Food Safety Science and Research Centre, Hagley Research Institute, Massey University, Palmerston North, New Zealand

3. Pneumococcal resistance and bacterioccin in European poultry and pig farms
   Reeswanga Lukwe, Institute for Risk Assessment Sciences, Utrecht University

4. Predominance of CTX-M-15 in Colistin-resistant Enterobacteriaceae isolates from Food Animals and in-contact Humans in Southeast Nigeria
   Sulewunwa Olubiyi Oluwamukoko, Ebonyi State University, Abakaliki, Ebonyi State, Nigeria
Economic issues in One Health and cost-effectiveness of operational One Health programmes

**ECONOMICS**

**TIME:** Saturday, 31 October, 13:00 - 13:20 CET

**TRACK:** One Health Science

**CHAIR:** Jonathan Ruxton, University of Liverpool

**SPEAKERS:**
1. Assessing the socioeconomie impact of rabies in Developing Countries: a One Health approach
   Sara López Wirtzio, Institute of Global Health, University of Barcelona, Spain, European Region

2. The role of animal health systems in One Health: a case study from the Mekong region
   Barbara McFate, Royal Institute for Global Health, Mahidol University School of Public Health and Global Health, The University of Melbourne, Australia

3. Added value of the One Health approach during the investigation and response to an outbreak of the Monoplexop pandemic among chimpanzees in Cameroon
   Severine Lali, Research Center on emerging and re-emerging diseases, Cameroon

4. Comparison of cost-benefit analysis approaches to net casting as a method to assess the economic benefits of rabies vaccination in dogs, India
   S. Suresh, the National Institute and The Royal (Dick) School of Veterinary Studies, The University of Edinburgh, Easter Bush Veterinary Centre, Roslin, West Lothian, United Kingdom

Addressing zoonotic diseases at the animal-humam-ecosystem interface: responding to threats

**SCIENCE**

**TIME:** Saturday, 31 October, 13:20 - 13:40 CET

**TRACK:** Science Policy Interface, Global Health Security

**CHAIR:** Renataël Diankana, World Health Organization

**SPEAKERS:**
1. The One Health BCP network of European public organisations aims at reinforcing cross-sector preparedness
   Heidi van der Sch县级, Sciences, the Belgian Institute for Health

2. Integrating climate and environment public policies in surveillance for early warning
   Marta Grazia Deleo, National Centre for Global Health, Istituto Superiore di Sanità, Italy

3. Improvement of One Health collaboration at the national level for early warning, risk assessment and control of emerging zoonotic diseases
   Carlos Botelho, Business Institute for Public Health and the Environment, The Netherlands

4. Beavers, wolves and local laws: what to do in the next 10 years has a game for wildlife and how will it impact the urban epidemiological landscape
   Paola Vial, Animal and Plant Health Agency, United Kingdom

Special Partner Session organized by Health Security Interface WHO: Where Two Worlds Intersect: Collaboration at the Health-Security Interface to Mitigate Infectious Disease Threats

**TIME:** Saturday, 31 October, 13:40 - 14:00 CET

**TRACKS:** Special Partner Sessions, Global Health Security

**CHAIR:** Tristin Smith, Global Affairs Canada

**SPEAKERS:**
1. Introduction to health security collaboration and the role of the Global Partnership
   Tristin Smith, Global Affairs Canada, Canada

2. Multi-sectoral work of the Health Security Interface WHO
   Marie Berthier, World Health Organization, Switzerland

3. Pandemic and Challenges of the health security sector engagement from a scientific perspective
   John Makhton, Curtin University, Australia, Co-founder One Health Platform Foundation

4. BSEC Implementation Support Unit - ESMC as a critical pillar of the health security infrastructure
   David Feates, BSEC Implementation Support Unit, Switzerland

5. The triple role of safe enforcement: prevention, detection and response to disease threats
   Astrid Sorguem, INTERPOL, France

6. The role of Ministries of Defense in health security
   John Macintyre, Portugal, Portuguese Army, Portugal

7. The importance of health security in Africa
   Lucile Blumberg, Public Health Surveillance and Republican Disease South Africa, South Africa

The presentations will be followed by panel discussions and questions from the virtual room.
**Surveillance of AMR**

**Talk:**
Saturday, 31 October, 14:00 - 14:00 CET

**Track:**
Antimicrobial Agents and Resistance

**Chair:**
Teddy Leslie, Fleming Fund / MacRobertson

**Programme:**
1. Antimicrobial resistance genes in giant tortoises as an indicator of One Health impacts in the Galápagos Islands
   Alexis Nervo-Clauden, Charles Darwin Foundation, Ecuador
2. Antimicrobial susceptibility profile of selectedEnterobacteriaceae in wastewater samples from health facilities, abattoirs, downstream rivers and a waste water treatment plant in Addis Ababa, Ethiopia
   Tadesse Egusa, Addis Ababa University, Ethiopia
3. Regional distribution of resistance combinations patterns in E. coli from different human and animal populations: data from German National Surveillance and Monitoring for AMR between 2010 and 2017
   Benedikt Wessling, German Federal Institute for Risk Assessment, Germany
4. Targeted metagenomics for source attribution of antimicrobial resistance in urban systems
   William Quetsch-Balia, Newcastle University, England

---

**One Health in sustainable food systems**

**Talk:**
Saturday, 31 October, 14:00 - 14:00 CET

**Track:**
One Health Science

**Chair:**
Gregory Henry, Australia Institute of Food Science

**Programme:**
1. Can organic food production save the world? The impact of organic farming on GHGs and antimicrobial resistance
   Mark Bryan, VMSL, New Zealand
2. Population growth, climate change and intensification of the aquaculture industry as drivers of MnS disease emergence in humans in Southeast Asia
   Rush Zawik, University of Sydney, Australia
3. More than just farming: Using a One Health systems approach to improve community livelihoods, livestock productivity and wildlife conservation in the Pamir Mountains of Tajikistan
   Jenny Johno, John Hopkins University, National Research Institute for Global Health, Faculty of Medicine, Dentistry & Health Sciences, University of Adelaide, Australia
4. The interconnectedness of Public Health and One Health: implications for food safety and security
   David M. Woods, UC Davis, United States of America
5. Food systems through the One Health lens
   Grant Brown, Australia Institute of Food Science

---

**Empowering global health security and policy in Africa**

**Talk:**
Saturday, 31 October, 14:00 - 14:00 CET

**Track:**
Science Policy Interface, Global Health Security

**Chair:**
Sarah Chitwood, University of Glasgow

**Programme:**
1. Operationalising One Health in Liberia: bringing together for Resilient Health Services Post-Ebola
   Sarah Basso, National Public Health Institute of Liberia, Liberia
2. Zoonotic disease preparedness in Sub-Saharan African countries
   Living Stones University College, London, United Kingdom
3. South-to-South mentoring as a vehicle for implementing Sustainable Health Security in Africa
   Stephanie Marie Norwood, International Federation of Bowel Health Associations (IFBHA), Canada
4. One Health: Delineating Disease Prioritisation for Multisectoral Engagement in the Economic Community of West African States (ECOWAS)
   Gary W. Bower, Center for Disease Control and Prevention (CDC), United States of America
   Jeff Winzer, One Global Health
Saturday 31 October, 10:00 – 18:00 CET

**Biological threat reduction and control of biological agents**

**Track:** 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
   - Ellie Groves, Tafs, Angus, United States of America

2. Assessment of the brane status of veterinary laboratories in Southeast Nigeria - Application of the food and agriculture organization laboratory mapping tool - Safety module
   - Moses Yaw Baldeh, Federal University of Agriculture Abeokuta, Nigeria

3. Veilidb/Ar: A network of one health laboratories and people supporting One Health
   - Hugh Andrew Simms, Animal Plant and Health Agency, United Kingdom

4. Prepare to deal with unanticipated emerging infectious diseases by establishing and strengthening field epidemiology workforce in Addis Ababa plus Three countries
   - Konthatchai Towanpasit, Addis, Ethiopia; Plus Three Field Epidemiology Training Network coordination office, Thailand

Saturday 31 October, 18:00 – 20:00 CET

**Big data and digital solutions**

**Track:** Antimicrobial Agents and Resistances

**Chair:** Bénédicte Naudé, 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
   - Dolores Catter, Veterinary Laboratory Investigation and Response Network (V-LIRN), Center for Veterinary Medicine, U.S. Food and Drug Administration, United States of America

2. Global increase in antibiotic-resistant E. coli in food animals: A genome, Public Data approach
   - Ada Pettinger, Institute for Translational Epidemiology, ETH Zurich, Switzerland

3. Establishment of an Artificial Intelligence Enabled Global Antimicrobial Resistance Surveillance System to Analyse Historical and Real-time Data
   - Shibrimo Kitatani, College of Veterinary Medicine, North Carolina State University, United States of America

4. COVID-19: A big data and AI approach for tracking, tracing and tackling the One Health
   - Bronson Reith-Snell, University of Technology Sydney, Australia

Saturday 31 October, 18:00 – 20:00 CET

**Special Partner Session organized by BMU/NET RECORD: Sustainability in healthcare - Sustainability in veterinary settings**

**Track:** Special Partner Sessions

**Chair:** Alexander John Toyes, Maersk Line

**Programme:**
1. Sustainability in healthcare systems: Comparison animal practice
   - Edna West, Unimuse, United Kingdom

2. ONE HEALTH Sustainability within Farm Animal Practice
   - Jonathan Stanaway, Nuffield Stormie, UK

3. Opportunities for sustainability leadership in the veterinary profession
   - Laura Elisabeth Higham, University of Edinburgh, England; Vet Sustain, No Farms

Saturday 31 October, 20:00 – 20:00 CET

**Recap of the day / Catch-up with Lisa Baden, JWGH/CMH Co-Chair, Live from Edinburgh**

**Track:** Live J
SUNDAY 1 NOVEMBER 2020

**Advances in vaccine technologies and their impact in underprivileged communities/populations**

**TIME:**
Sunday 1 November, 08:00 – 10:00 CET

**SPONSOR:**
One Health Science, Global Health Security, Vaccination

**CHAIR:**
John Mackenzie, Curtin University, Australia, Co-Founder One Health Platform Foundation

**PROGRAMME:**
1. Avian-viral disease prevention and control with plant vaccines for the Mediterranean area (AVAMED)
   - Salvatore Baschieri, Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Rome, Italy

2. Human and marine immune correlates providing protection from risk-borne encephalitis
   - Monique Perroy, Research Center for Emerging Infections and Nanomedicine, University of Veterinary Medicine, Hannover, Germany

3. Developing a “One Health” Nipah virus vaccine to protect animal and public health
   - Elena Paul-Georgiou, The Pirbright Institute, United Kingdom

4. A field trial to determine the efficacy of a potentially thermostable rabies vaccine following storage in field conditions
   - Ahmed Lugolo, Makerere University of Agriculture, Tanzania, Kakata Health Institute, Tanzania

**Good morning with Ab Osterhaus**

**TIME:**
Sunday 1 November, 08:00 – 09:10 CET

**SPONSOR:**

**Keynote Lecture: Never too late to Learn Lessons of SARS, COVID-19 and other outbreaks**

**TIME:**
Sunday 1 November, 09:00 – 09:30 CET

**SPONSOR:**
Herman Boelhauem, Senior Global Health Consultant

**Keynote Lecture: How to prepare for the next influenza pandemic? Antivirals as one of the cornerstones of pandemic preparedness**

**TIME:**
Sunday 1 November, 10:00 – 10:30 CET

**SPONSOR:**
Frederick Hayden, University of Virginia

**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**

**TIME:**
Sunday 1 November, 10:30 – 11:00 CET

**SPONSOR:**
Armistead Bwalya, Centre for Disease Control and Prevention

**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**

**TIME:**
Sunday 1 November, 11:00 – 11:30 CET

**SPONSOR:**
Mark Revzynsema, SAICED Foundation for One Health
## Vaccines for emerging infections

**Title**: Vaccines for emerging infections
**Date**: Sunday 1 November, 10:00 - 12:00 CET
**Chair**: Oliver Proctor, University of Liverpool

### Programme
1. A single dose of the SB5/CBA subtype vaccine induces an early protective antibody response and is a vaccine for monkeys
   - Hendrik Verhees, Vectorial, Germany
2. Rabies control through mass dog vaccination: community education and enhanced surveillance in Goa, India - a State example of success
   - Andrew David Brown, University of Edinburgh, United Kingdom
3. Mass vaccination in a pandemic
   - Holger Frentzen, Veterinary Research Institute, Germany
4. A single dose low-temperature SARS-CoV-2 vaccine candidate
   - Jean-Charles Beveridge, Imperial College, United Kingdom

## Communication in a pandemic

**Title**: Communication in a pandemic
**Date**: Sunday 1 November, 12:00 - 14:00 CET
**Chair**: Deborah MacKenzie, New Scientist

### Programme
1. Communication in a pandemic
   - Deborah MacKenzie, New Scientist, United Kingdom
2. Communication in a pandemic
   - Kai Hopfensreich, Science Magazine, Germany
3. Communication in a pandemic
   - Ali Osterhaus, RVTH, University of Veterinary Medicine, Hannover, Germany and Chair One Health Platform, Hannover
4. Communication in a pandemic
   - Marc Van Ranst, University of Louvain, Belgium

## Alternative approaches to tackling resistant infections

**Title**: Alternative approaches to tackling resistant infections
**Date**: Sunday 1 November, 14:00 - 16:00 CET
**Chair**: Roberto Marsella, University of Surrey

### Programme
1. Phenotypic and genotypic properties of typhus plagues from livestock slaughterhouses and their suitability for the treatment of multiresistant P. aeruginosa
   - Jana Gabriele Mannering, German Federal Institute for Risk Assessment, Germany
2. Antibacterial efficacy of oxygenated Al-5-7: Melittin (CAMA) lactobacilli (12-10) and their combination against multi drug resistant enteropathogenic Escherichia coli
   - Jose Vergis, ICAR, Indian Veterinary Research Institute, Izamgarh, Uttar Pradesh, India
3. Investigating pathways related to antibiotic use and exploring the viability of phage therapy as an alternative antimicrobial in vitro comparison animal medicine
   - Liza Alpha Kwesiga, University of Surrey, England
4. Targeting host AKPSA gene in the chickens to introduce genetic resistance to avian influenza through genome editing
   - Almeida Anshu, The Beijing Institute & Royal (Dick) School of Veterinary Studies, The University of Edinburgh, United Kingdom
### Environmental and ecological issues

**TIME:** Sunday 1 November, 16:30 – 18:00 CET  
**TRACK:** One Health Science  
**CHAIR:** Tanya Victorine, Wavemaker College of Health Sciences; College of Veterinary Medicine  
Richard Rock, Royal Veterinary College  
**PROGRAMME:**  
1. Collaborative and participatory dissemination of techniques and social technologies for the conservation of water resources  
Luan Rochelle Ayapanda, Universidade Federal de Minas, Brazil  
2. One Health approach to promoting sustainable livelihoods through Bungor seed health in Bangladesh  
Fiona Whoton, UCL Institute of Liver and Skin Research Institute, Ethiopia  
3. Investigation into the utility of flying foxes as translational models for environmental mental health: does evidence of diminished health suggest significant mental health exposure?  
Laura Ann Potocki, 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: Predicting forest disease in India's degraded forests  
Bertram V. Purseglove, UK Centre for Ecology and Hydrology, Wallingford, Oxfordshire, United Kingdom  

### Keynote lectures: Virulence and Transmissibility of Highly Pathogenic Avian Influenza H5N6 Viruses in the Ferret Model

**TIME:** Sunday 1 November, 16:30 – 18:00 CET  
**TRACK:** Keynote lectures  
**SPONSOR:** Joaquin Alcivar-Pentavous, Center for Disease Control & Prevention  

### Behaviour change and social sciences

**TIME:** Sunday 1 November, 18:30 – 20:00 CET  
**TRACK:** Behavioural agents and resistance  
**CHAIR:** Tashika Sims, International Fetal Information Council Foundation  
**PROGRAMME:**  
1. Designing a communication campaign to support the National Action Plan (NAP) on AMR in Tanzania  
Shravan Hathiram, University of Glasgow, United Kingdom  
Shauna Pflueger, Wellbeing, United Kingdom  
3. Understanding, Adapting, Preserving: Increasing knowledge and motivating behavioral changes among food producers and consumers to preserve the efficacy of antibiotics through the UAMResponsibleTF Project  
Mira Beth, University of Nebraska-Lincoln, United States of America  

### Intervention strategies (diagnostics, vaccines, antimicrobials, antibodies and biological response modifiers)

**TIME:** Sunday 1 November, 18:30 – 20:00 CET  
**TRACK:** SARS-CoV-2/COVID-19: Global Health Security  
**CHAIR:** William Kassam, Bioethics 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-Alexa Taverna, Medilabsecure Network, Italy  
2. Assessment of Effectiveness of National Lock Down Measures in Reducing COVID-19 Burden – A Comparison of Selected Countries  
Jayati Ahuja, George Mason University, United States of America  
3. Pandemics and Proteins  
Jerry Wensley, Tufts University, United States of America  
4. COVID-19 Awareness and Public Health Message Effectiveness Across Job Roles in the Hospital Setting  
Aamer Adbul-Maguid, Amcrest 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 B. Totzke, Department of Environmental Health and Engineering, Johns Hopkins University, Bloomberg School of Public Health, United States of America
### Recap of the day / Catch-up with Lisa Bédos, IWHC2020 Co-Chair, Live from Edinburgh

**Date:**
Sunday 1 November, 22:00 CET

### MONDAY 2 NOVEMBER 2020

#### Good morning with Ab Osterhaus / Catch-up with John Mackenzie, IWHC2020 Co-Chair, Live from Australia

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

**Track:**
Keynote lectures

**Speaker:**
Manuel Sanchez-Vizcaino, FAWORKING

---

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

**Track:**
Keynote lectures

**Speaker:**
Manuel Sanchez-Vizcaino, FAWORKING

---

#### AMR

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

**Track:**
Antimicrobial resistance and resistance

**Chair:**
Tim Beacham, 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 in combat antimicrobial resistance in livestock
   Kanchana Elizbeth Sathe, University of St. Andrews, Scotland, United Kingdom

3. User-driven diagnostics in livestock AMR in a One Health context
   TI. Bechman, University of Edinburgh, United Kingdom

4. Rapid method for detection of β-lactam resistant E. coli in milk
   Anuradha Joseph, National Dairy Research Institute (NDRI), USAID, Haryana, India

---

#### Diagnostics and detection

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

**Track:**
Antimicrobial resistance and resistance

**Chair:**
Tim Beacham, 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 in combat antimicrobial resistance in livestock
   Kanchana Elizbeth Sathe, University of St. Andrews, Scotland, United Kingdom

3. User-driven diagnostics in livestock AMR in a One Health context
   TI. Bechman, University of Edinburgh, United Kingdom

4. Rapid method for detection of β-lactam resistant E. coli in milk
   Anuradha Joseph, National Dairy Research Institute (NDRI), USAID, Haryana, India

---

#### intervention strategies in outbreak scenarios in original host and in newly invaded species

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

**Track:**
One Health Science, Vaccination

**Chair:**
Martyn Jago, Deakin University

**Programme:**
1. One Health and a street meal: Integrative and ecologically sensitive approaches to control leptospirosis from food
   Najim Anwar, Royal Veterinary College, England

2. Scaling-up, monitoring and improving efficiency of large-scale dog vaccination campaigns against rabies in Tanzania
   Weganga Sunita, Tanzania Health Institute, Tanzania, Tanzania

3. Domestic dogs and the eradication of狂犬病
   Rebecca Woldeab, University of Essex, United Kingdom

4. WHO, Emergency preparedness
   Jasvinder Randhawa, World Health Organization, Switzerland
**Monday 1 November, 13:00 - 13:30 CET**

**SPS**

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

**TALK:**

**SPS**

**Monday 1 November, 13:00 - 13:30 CET**

**SPS**

**Special Partner Session**

**CHAIRS:**

- Bernardine Rumeny, World Health Organization
- Vincent Courajod, Foundation Merieux

**PROGRAMME:**

1. Fundamentals of One Health: The operational challenge to intervention design and implementation
   - Bruce Alexander Willows, Global Health Group International, Thailand

2. Capacity building for a metrics-based evaluation of One Health
   - Carolee Krakow, Global Health Group International, Germany

3. Panel discussion: Toward building competencies for operationalizing One Health
   - Moses John Chirchir, University of Nairobi, Kenya

4. Panel discussion: Toward building competencies for operationalizing One Health
   - Benson A. Ssemakula, Department of Veterinary 
   Science, Makerere University, Uganda

5. Panel discussion: Toward building competencies for operationalizing One Health
   - Frank Essien Godswon, University of Ibadan, Nigeria

6. Panel discussion: Toward building competencies for operationalizing One Health
   - Beppe Kees, Centre Suisse de Recherches Scientifiques et Cité d’Ivoire
   - University Malaya, Gem City Laboratory of Rockham, USA

**Monday 1 November, 13:00 - 13:30 CET**

**AMR**

**Challenges for AMR action**

**TALK:**

**AMR**

**Monday 1 November, 13:00 - 13:30 CET**

**CHAIR:**

- Robert Skuce, International Centre for Antimicrobial Resistance Solutions

**PROGRAMME:**

1. Information communication technology (ICT) for antimicrobial resistance (AMR) surveillance, diagnostics, research capabilities, and patient outcomes
   - Ashley Brindley, The Ohio State University Global One Health Institute, United States of America

2. Mind the Gap: Gendered Approaches to Antimicrobial Resistance
   - Linda Walmsley, Institute of Development Studies, United Kingdom

3. 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 settings
   - Joanne Susan McKinnon, School of Veterinary Science, Massey University, New Zealand

4. Intervention and implementation research as a driver for AMR mitigation in LMICs
   - Robert Skuce, ICARS, Denmark

**Monday 1 November, 13:00 - 13:30 CET**

**OHS**

**Surveillance of infectious diseases in humans, animals and plants**

**TALK:**

**OHS**

**Monday 1 November, 13:00 - 13:30 CET**

**CHAIRS:**

- Margaret Van Kerkhove, World Health Organization
- Mark van Kemenade, Programme for the Vaccine and Respiratory Virus Surveillance Program (VRVSP), Geneva, Switzerland

**PROGRAMME:**

1. One Health epistemology of surveillance, an emerging orthodoxy from Africa
   - Margaret Van Kerkhove, Global Health Group International, Switzerland

2. Surveillance of Potential Drivers for a Influenza Virus A and B in Tanzania
   - Grace Woundi, Tanzania Health Institute, Tanzania

3. The future of surveillance: Lessons from the COVID-19 pandemic
   - Thomas Kees, University of California Davis, United States of America

**Monday 1 November, 13:00 - 13:30 CET**

**GBS**

**GBS**

**Monday 1 November, 13:00 - 13:30 CET**

**GBS**

**Surveillance of infectious diseases in humans, animals and plants**

**TALK:**

**OHS**

**Monday 1 November, 13:00 - 13:30 CET**

**CHAIRS:**

- Margaret Van Kerkhove, World Health Organization
- Mark van Kemenade, Programme for the Vaccine and Respiratory Virus Surveillance Program (VRVSP), Geneva, Switzerland

**PROGRAMME:**

1. One Health epistemology of surveillance, an emerging orthodoxy from Africa
   - Margaret Van Kerkhove, Global Health Group International, Switzerland

2. Surveillance of Potential Drivers for a Influenza Virus A and B in Tanzania
   - Grace Woundi, Tanzania Health Institute, Tanzania

3. The future of surveillance: Lessons from the COVID-19 pandemic
   - Thomas Kees, University of California Davis, United States of America
Monday 2 November, 12:00 - 14:00 CET

Operational frameworks

Track: Monday 2 November, 12:00 - 14:00 CET
Track: Science Policy Interface

Chairs:
- Roberto Bon, Charite - Universitätsmedizin Berlin
- Lisa Boddy, University of Edinburgh

Programme:
1. Walking the Talk: One Health Operationalisation in the Free State, South Africa
   Clovis de Vries, clovisdevries@me.com, South Africa

2. One Health for Humans, Environment, Animals and Livelihoods (H4EA) to ensure healthy people derive their livelihoods from healthy livestock in a sustainably managed environment
   Diana Gombya, Veduguri Suresh Pratap - Sasse, Ethiopia (ETF-Suisse)

3. A One Health multi-sectoral National strategy for Brucellosis prevention and control in Kenya
   Rashid Ngeko, Institute of Infection and Global Health, Department of Epidemiology, and Populations Health, University of Liverpool, United Kingdom; School of Public Health, University of Nairobi, Kenya

4. One Health Stakeholders Initiatives
   Juma Wiles, 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

Track: Monday 2 November, 14:00 - 16:00 CET
Track: Special Partner Sessions, Global Health Security

Chairs:
- Ali Botros, BV, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform
- Bernhard Hess, Bavarian Nordic

Programme:
1. Introduction
   Ali Botros, BV, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany

2. One Health perspective on diseases prevention
   Richard Black, Royal Veterinary College, England

3. After smallpox, what next? WHO perspective on orthopox viruses
   Richard Brown, World Health Organization, Switzerland

4. Monkeypox disease and its spreading
   David Heymann, LSHTM, United Kingdom

5. Monkeypox disease – the clinical picture
   Christian Happ transmission, Nigeria Center for Disease Control, Nigeria

6. A vaccine to prevent certain Orthopox virus diseases?
   Heiko Wedenbaker, Bavarian Nordic GmbH, Germany

7. Key highlights of the symposium and Q&A (chat box)
   Ali Botros, BV, University of Veterinary Medicine, Hannover, Germany and chair One Health Platform, Germany

---

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

Keynote Lecture: How to prepare for the next influenza pandemic? Antivirals & Biological Response Modifiers as one of the cornerstones of pandemic planning

Track: Monday 2 November, 16:00 - 18:00 CET
Track: Keynote Lectures

Speaker:
- Michael Sors, Northwestern University

---

Monday 2 November, 18:00 - 18:30 CET

Capacity building

Track: Monday 2 November, 18:00 - 18:30 CET
Track: AMR

Speaker:
- Kitty Weather, Veterinary Medicines Directorate, UK

Programme:
1. Animal Medicines Best Practice (AMBP) Programme – AMR Capacity Building with Farmer Training in the Responsible Use of Antimicrobials
   Grace O'Driscoll, Grace O'Driscoll, National Office Animal Health (NOAH), England

2. The UK FAO Reference Centre for Amniotic Infection: delivering capacity building support to low and middle income countries
   Caroline Card, Animal and Plant Health Agency, United Kingdom

3. Strengthening one health AMR and AMR surveillance in low and middle income countries: major needs and constraints
   Natalie Reaves, ISM, Scotland, United Kingdom

4. 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
DETERMINANTS OF INTER-SPECIES AND INTRA-SPECIES TRANSMISSIBILITY OF INFECTIOUS AGENTS

**OHS**

**Panel:**
- Monday 2 November, 16:00 - 16:30 CET
- One Health Science

**Speakers:**
- Jenna McLean, University of California, Davis
- Anna Meredith, University of Edinburgh/University of Melbourne

**Programme:**
1. Outlining the zoonotic potential of currently circulating avian influenza A viruses in Europe
   - Andrea Esmonde-White, Friedrich Luebke Institute, Germany
2. Livestock and the epidemiology of swine influenza: mechanisms and implications
   - Julianne McLean, University of Washington, Seattle, United States of America
3. Mapping inter- and intra-species transmission of marburgvirus: a genetic view analysis
   - Dusan Buljic, The Pirbright Institute, UK

RISK REDUCTION FRAMEWORKS/Global Health Security

**SPI**

**Panel:**
- Monday 2 November, 16:00 - 16:30 CET
- Science Policy Interests, Global Health Security

**Speakers:**
- Brendan Smith, Global Affairs Canada
- Michael Ryan, World Health Organization

**Programme:**
1. A global approach to health emergencies: The AMAN/EU Network
   - Chia-Ming Chiang, Ministry of Health Malaysia, Malaysia
2. ASEAN Architecture in Responding to All Hazards and Emerging Threats: ASEAN Health Sector Perspective in Multi-sectoral and Multi-stakeholder Cooperation
   - Fernando Manrique-Prieto, ASEAN Secretariat, Indonesia
3. Joint Evaluation of influenza: Enhancing health security through a comprehensive whole-of-government approach
   - Sims Niskander, Professor and Director at Centre for Biodefense Preparedness and Military Medicine, Finland
4. Pandemic Preparedness Planning in NZ: what is missing?
   - Ali Greenhouse, Research Center for Emerging Infections and Zoonoses, University of Veterinary Medicine, Hannover, Germany and Chair One Health Platform, Germany

SPECIAL PARTNER SESSIONS ORGANIZED BY WAXX/What Vaccination means for mankind: Past, present and future

**SPS**

**Panel:**
- Monday 2 November, 16:00 - 20:00 CET
- Special Partner Sessions

**Speakers:**
- Pieter Van Damme, University of Antwerp

**Programme:**
1. Some of the myths - a lot of facts - about vaccination
   - Sarah Gilbert, University of Oxford, United Kingdom
2. How polio vaccination preventes 1.5 million childhood deaths and how it was like to live with polio
   - Pieter Van Damme, University of Antwerp, Belgium
3. "The special marshal" - smallpox from widespread to wiped out. An extraordinary triumph of vaccination and human will
   - Josie Epstein, 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
   - Naveen Reddy, University of Oxford, United Kingdom
5. The substantial health impact of measles vaccination in the world and the need to maintain high vaccination coverage levels to contain measles
   - Noreen Winder, Deloitte University, Canada
6. Vaccination of man and other animals against rabies
   - Bayern Maitland, Emeritus One Health Research Foundation, Netherlands, The
7. What happens when we don’t vaccinate against influenza?
   - Ali Greenhouse, REU University of Veterinary Medicine, Hannover, Germany and Chair One Health Platform, Germany
8. Let’s talk emotions: why do people not get vaccinated?
   - Emilia Kanellakos, The Vaccine Confidence Project, London School of Hygiene & Tropical Medicine, United Kingdom

Supported by ESWI
### Keynote Lecture: Environmental sampling in SARS-CoV-2 infected minh farms and in the surroundings

**TIME:**
Monday 2 November, 2020 – 20:30 CET

**Track:**
SARS-CoV-2 / COVID-19, Keynote lectures

**Speaker:**
Myrna M. T. de Baus, Utrecht University

**Programme:**
1. Environmental sampling in SARS-CoV-2 infected minh farms and in the surroundings
Myrna M. T. de Baus, Utrecht University

### Keynote Lecture: Case-fatality rate of COVID-19 is declining since May 2020

**TIME:**
Monday 2 November, 2020 – 20:30 CET

**Track:**
SARS-CoV-2 / COVID-19, Keynote lectures

**Speaker:**
Muhaiminul Haqueen Haqueen, Shahjalal University of Science and Technology

**Programme:**
1. Case-fatality rate of COVID-19 is declining since May 2020
Muhaiminul Haqueen Haqueen, Shahjalal University of Science and Technology, Sylhet 3114, Bangladesh

### Keynote Lecture: The One Health Frontier: Why we should all be talking about climate-resilient food systems

**TIME:**
Monday 2 November, 2020 – 20:30 CET

**Track:**
Keynote lectures

**Speaker:**
Biarranique Bikram, IRC

### Environmental exposures: Water and wastewater

**TIME:**
Monday 2 November, 2020 – 22:00 CET

**Track:**
Antimicrobial agents and resistance

**Speaker:**
Monica Quitahdita-Bakula, Newcastle University

**Programme:**
1. Risk of co-infection 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
Monica Quitahdita-Bakula, Newcastle University, United Kingdom

2. Dispersal and survival of pathogenic and antibiotic-resistant Escherichia coli in receiving wetlands
Charles P. Meeusen, E.M.R. Crop and Environment, Universiteit de Franche-Comté, France

3. Antimicrobial resistance related to water, sanitation and hygiene: global exposure and burden of disease in Lao PDR: top-down and bottom-up approaches
Helen Schmitt, National Institute for Public Health and the Environment (RIVM), The Netherlands

4. Source tracking and predicting antibiotic resistance exposures among two Asian rivers with inconsistent wastewater management
David J. Brooks, Newcastle University, England

### Recap of the day

**TIME:**
Monday 2 November, 2020 – 22:00 CET
TUESDAY 3 NOVEMBER 2020

**Good morning with Ab Osterhaus**

**Time:**
Tuesday, 3 November, 09:00 - 09:10 CET

**Track:**
Special Partner Sessions, Global Health Security

**Session:**
Stephanie De La Rue, WHO

**Introduction to the Session: Overview of global context and strategic approaches adopted by WHO and the tripartite**

**Stephanie De La Rue, WHO, Switzerland**

**Bringing International Frameworks to Strengthen the collaboration at the Human-Animal Interface**

**Studsvik Institute, World Health Organization, Switzerland**

**Guidance and operational tools to support countries in building capacities**

**Kaplans Myhre Ennen, World Health Organization, United States of America**

**Joint adaptation exercise to test and improve coordinating capacities**

**Frederik Capper, WHO, Switzerland**

**Return of experience and regional perspectives**

**Alessio Migliavacca, WHO, Ukraine**

**Use of antibiotics**

**Time:**
Tuesday, 3 November, 12:30 - 14:00 CET

**Track:**
Antimicrobial Agents and Resistance

**Chair:**
Marc Meloen, University of Cape Town

**Presentation:**
1. Quantitative of antimicrobial use (AMU) and its ineffective impact prophylastic AMU and a postive effect of therapeutic AMU in small-scale chicken farms in the Mekong Delta of Vietnam.
   Cao Ngoc Vinh, Oxford University Clinical Research Unit (OUCRU), Vietnam

2. Collating veterinary antimicrobial sales data for 11 dairy farms in South west England; and utilising the data to alter antimicrobial decision making on farm
   Alexander Welfare, Syngenta Farm Health Ltd, United Kingdom

3. How to help with antimicrobial decision-making in hospitals
   Bernard Jernaseni-Pons, Imperial College London, United Kingdom

4. A unique approach to reducing antimicrobial use in UK dairy farms using a novel elastin detection method as part of an integrated selection dry cow therapy veterinary practice service
   Ian Cuss, De Agrovet, Lancaster, United Kingdom

**Pathogenesis of newly emerging infections**

**Time:**
Tuesday, 3 November, 12:30 - 14:00 CET

**Track:**
One Health Science

**Chair:**
Phil Beard, The Melville Institute

**Ross Fitzgerald, University of Edinburgh**

**Presentation:**
1. Strengthening links 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 2012 to 2019
   Paul Ellis Vivacqua, University of the Witwatersrand, University of Pretoria, University of the Witwatersrand, Cape Town

3. Genetically and antigenically divergent influenza AMRVs exhibit differential replication and transcription phenotypes in mammalian models
   Jessica A. Bowley, Centers for Disease Control and Prevention, United States of America

4. Respiratory outbreaks from alpacas as a tool for studying the Middle East respiratory syndrome coronavirus (MERS-CoV) infection in camels
   Jordi Rodes, Istituto de Recerca i Tecnologia Agroalimentaries (IRTA), Centro de Recerca en Santitat Animal (CRSA), Campus de la Universitat Autònoma de Barcelona, Spain
**Civil society participation/risk communication**

**Time:**
Tuesday 3 November, 12:30 – 14:00 CET

**Track:**
Science Policy Interface

**Chairs:**
- Mianne Nalor, Department for Environment, Food and Rural Affairs
- Christianne Broué, Ministry of Agriculture, Nature and Food Quality

**Programme:**
1. Community mapping and engagement to co-create a One Health conceptual diagram of under-5 U5S infections in urban slums for the Childhood Infection and Pollution (CHIP) Consortium
   - Prof. Emerita Lekhakumalo, UCG, Great Ormond Street Institute of Child Health, United Kingdom
2. 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
3. Risk practices for bovine tuberculosis transmission in cattle and livestock farming communities living at wildlife-livestock-human interface in northern KwaZulu Natal, South Africa
   - Professor Rosaline Shoko, University of Pretoria, South Africa; Mediterranea Tauri University, Zinabu
   - Sarah Poggi, CORE Group, United States of America
5. Innovative livestock farming: the role for human health - ready the problem? Perceptions of scientists, residents and farmers
   - Valerie lighart, assenbiedesnl, crps-inventenm described, Department of Public and Occupational Health, the Netherlands

---

**VAX**

**Time:**
Tuesday 3 November, 12:30 – 15:30 CET

**Track:**
Vaccination

**Chairs:**
- Mianne Van Damme, University of Antwerp

**Programme:**
1. What vaccination means for mankind
   - Mianne Van Damme, University of Antwerp, Belgium
2. What are immunization programmes: an overview
   - Sandrine Bannier, Vaccen, WEC Regional Office for Europe, Denmark
3. How is a vaccine included in an immunization programme: procedure
   - Andrew Rolland, Oxford Children’s Hospital, United Kingdom
4. Covid-19 vaccination update
   - Ae Gostenisse, BZU University of Veterinary Medicine, Hanover, Germany
5. What needs to be done?
   - Mianne Van Damme, University of Antwerp, Belgium

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

Please follow this link to register for this press event:

[www.eap.org/registration](http://www.eap.org/registration)

Please register for our VAX20 event, get a free ticket for ICRA access key

---

**AMR**

**Time:**
Tuesday 3 November, 14:00 – 16:00 CET

**Track:**
Antimicrobial agents and resistance: Vaccination

**Chairs:**
- David Heymann, LSHTM
- Faye Debon, European Commission

**Programme:**
1. A novel "two pot" method to aid in the production of low cost recombinant glycoconjugate vaccines
   - Elizabeth Rose Atkinson, London School of Hygiene and Tropical Medicine, United Kingdom
2. Structure and mode of action of the extreme-narrow spectrum antibiotic pyosulfos 55 against Pseudomonas aeruginosa
   - Herman J Bahena, University of Gent, Belgium
3. Effect of vaccination on the use of antimicrobial agents: a systematic review
   - Thanasi Mark, Bami, GSK Vaccines, Waver, Belgium
4. The role of preventative BkI health management in sustainable aquaculture production and its importance in a One Health context
   - Ben North, PhD/MD (joint of diets), Norway
Epidemiology of newly emerging infections

**TIME:**
Tuesday 2 November, 14:00 – 16:00 CET

**TALKS:**
One Health Science, Global Health Security

**SPONSOR:**
Lakesidio Medphub, International Society for Infectious Diseases
Juliana Leiva, USA

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

2. Ongoing occurrence of invasive Staphylococcus aureus SDR39 in humans in Singapore, despite a ban on raw ready-to-eat fresh water fish
   Timothy Barlow, Tan Tock Seng Hospital, Singapore

3. Serological evidence and epidemiological risk-factor analysis of Citrobacter congolensis fever in cattle in Cameroon
   Lisa Maria Kassoma, The Riokes Institute, University of Edinburgh, Easter Bush, Scotland, United Kingdom

4. Rift Valley Fever virus surveillance: humans and animals during an epidemic period
   Nikole R. Hawes, Biosecurity Alliance, United States of America; Institute of Food Animal Medicine & Comparative Medicine, University of Glasgow, Scotland

**Keynote lecture: Why is One Health science important to secure global health security and how can One Health Science contribute to making policy?**

**TIME:**
Tuesday 2 November, 16:30 – 18:30 CET

**TALKS:**
Keynote Lecture, Global Health Security

**SPONSOR:**
Robert Prins, Defense Threat Reduction Agency (DTRA)

**Closing remarks**

**TIME:**
Tuesday 2 November, 18:00 – 20:00 CET

**SPONSOR:**
John MacKenzie, Curtin University, Australia, Co-founder One Health Platform Foundation
Lisa Boden, University of Edinburgh
Ali Gaiders, Institute of Veterinary Medicine, Hannover, Germany and chair One Health Platform

**PROGRAMME:**
1. What is One Health Day? One Health Day 2019 student competition winners’ announcement
   Cheryl Nield, One Health Commission, United States of America

2. One Health Day winner UK Dots presentation
   Lauren Plass, University of California, Davis, United States of America

3. Highlights of the Congress
   John MacKenzie, Curtin University, Australia, Co-founder One Health Platform Foundation, Australia

4. Highlights of the Congress
   Lisa Boden, University of Edinburgh, United Kingdom

5. The 7th World One Health Congress announcement
   Linni Wang, Duke-NUS Medical School, Singapore

6. The 7th World One Health Congress announcement
   Victor Louie, 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.