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health**
CONGRESS
7 – 11 November 2022
SINGAPORE



PROGRAMME HANDBOOK



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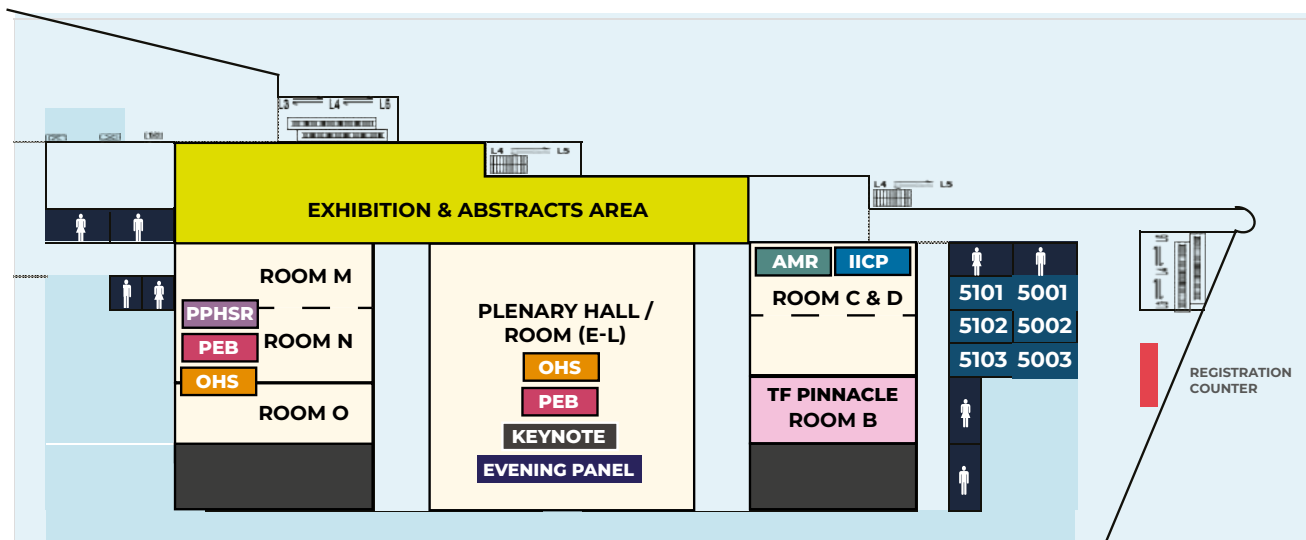
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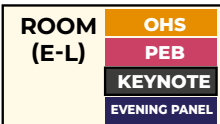

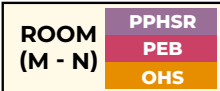

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CONGRESS FLOORPLAN



5001	SECRETARIAT ROOM (5001)
5003	ORGANISER ROOM (5003)
5101	SPEAKERS' PREVIEW ROOM (5101)
5102	PRESS ROOM (5102)
	REGISTRATION COUNTER
	EXHIBITION & ABSTRACTS AREA

	ROOM B	TF PINNACLE
	ROOM (E-L)	PLENARY HALL
	ROOM (C - D)	BREAKOUT ROOMS C & D
	ROOM (M - N)	BREAKOUT ROOMS M & N
	ROOM (O)	ROOM O

DAY 1: Monday, 7 November 2022

TIME	PROGRAMME		
7:00	REGISTRATION		
9:30	OPENING CEREMONY at Plenary Hall		
10:30	COFFEE BREAK		
11:00	OHS	AMR	PPHSR
	Plenary Hall	Room (D + C)	Room (M + N)
	ABSTRACT SESSION Pandemic Preparedness: Detect, Prevent and Respond I	ABSTRACT SESSION One Health Approach to Integrated AMR Surveillance	Lancet One Health Commission: One Health Implementation, Impact and Evaluation
	Room (O)		
ABSTRACT SESSION Pandemic Preparedness: Detect, Prevent and Respond II			
13:00	LUNCH BREAK		
14:00	OHS	AMR	PPHSR
	Plenary Hall	Room (D + C)	Room (M)
	ABSTRACT SESSION Risk Factors Driving Zoonotic Infections I	ABSTRACT SESSION One Health Approach to Integrated AMR Surveillance	ABSTRACT SESSION Secondary / Indirect Impact to Human and Animal Health I
	Room (O)		Room (N)
ABSTRACT SESSION Risk Factors Driving Zoonotic Infections II		ABSTRACT SESSION Secondary / Indirect Impact to Human and Animal Health II	
16:00	COFFEE BREAK		
16:30	Plenary Hall		
	PANEL DISCUSSION Latest Scientific Advances on One Health		
18:00	WELCOME RECEPTION		
20:00	END OF PROGRAMME		

DAY 2: Tuesday, 8 November 2022

TIME	PROGRAMME		
8:30	KEYNOTE at Plenary Hall		
10:30	COFFEE BREAK		
11:00	PEB	IICP	OHS
	Plenary Hall	Room (D + C)	Room (M)
	Operationalisation, Systems Coordination and Science-Policy Linkage PANEL DISCUSSION	ABSTRACT SESSION MultiDrug Resistant Organisms (MDRO) - The Rightful Roles, Responsibilities and Interests of the Non-ID Physicians	ABSTRACT SESSION Risk Factors Driving Zoonotic Infections I
			Room (N) ABSTRACT SESSION Risk Factors Driving Zoonotic Infections II
13:00	LUNCH BREAK		
14:00	OHS	IICP	PEB
	Plenary Hall	Room (D + C)	Room (M)
	ABSTRACT SESSION Discovery and Surveillance I	Ethics of Vaccination and Public's Autonomy	ABSTRACT SESSION Globalisation and Human Drivers of Disease in a Rapidly Changing World I
	Room (O) ABSTRACT SESSION Discovery and Surveillance II		Room (N) ABSTRACT SESSION Globalisation and Human Drivers of Disease in a Rapidly Changing World II
16:00	COFFEE BREAK		
16:30	PEB		
	Plenary Hall PANEL DISCUSSION Global Financing and the One Health Agenda		
18:00	END OF PROGRAMME		

DAY 3: Wednesday, 9 November 2022

TIME	PROGRAMME		
8:30	KEYNOTE at Plenary Hall		
10:30	COFFEE BREAK		
11:00	OHS	AMR	PPHSR
	Plenary Hall	Room (D)	Room (M)
	ABSTRACT SESSION Vaccines and Therapeutics for Emerging Infections	ABSTRACT SESSION AMR Interaction and Transmission Drivers Between Reservoirs in Humans, Animals, Food and Environmental I	ABSTRACT SESSION Animal and Human Vaccines and Other Preventive Interventions for Pandemic Preparedness I
	PEB		
	Room (O)	Room (C)	Room (N)
	ABSTRACT SESSION Environment Change and Health - Public and Private Policy and Practice	ABSTRACT SESSION AMR Interaction and Transmission Drivers Between Reservoirs in Humans, Animals, Food and Environmental II	ABSTRACT SESSION Animal and Human Vaccines and Other Preventive Interventions for Pandemic Preparedness II
13:00	LUNCH BREAK		
	OHS	AMR	PPHSR
14:00	Plenary Hall	Room (D + C)	Room (M + N)
	ABSTRACT SESSION Environmental Surveillance	Science-based AMR Governance and Policy Implementation	ABSTRACT SESSION One Health Integrated Surveillance: Novel Data Types and Prototype Systems
	PEB		
	Room (O)		
	ABSTRACT SESSION Environment Change and Health - Strengthening Community Capacity		
16:00	COFFEE BREAK		
16:30	PPHSR		
	Plenary Hall		
	PANEL DISCUSSION National Sovereignty and Global Solidarity for Health Security		
18:00	END OF PROGRAMME		

SCHEDULE AT A GLANCE

DAY 4: Thursday, 10 November 2022

TIME	PROGRAMME		
8:30	KEYNOTE at Plenary Hall		
10:30	COFFEE BREAK		
	OHS	IICP	PEB
11:00	Plenary Hall	Room (D + C)	Room (M + N)
	Science Meets Policy	The Boon and Bane of Nutrition on Health	Biosecurity
13:00	LUNCH BREAK		
14:00	OHS	IICP	PEB
	Plenary Hall	Room (D + C)	Room (M)
	Understanding the Social Context of One Health	ABSTRACT SESSION Management of Non-Communicable Diseases (NCD) - Pivoting During a Pandemic and Beyond	ABSTRACT SESSION Science of Climate and Ecological Change of One Health I
			Room (N)
ABSTRACT SESSION Science of Climate and Ecological Change of One Health II			
16:00	COFFEE BREAK		
16:30	IICP		
	Plenary Hall		
	PRESENTATION & PANEL DISCUSSION The Impact of Our Environment and Microbiome on Health		
18:00	END OF PROGRAMME		

DAY 5: Friday, 11 November 2022

TIME	PROGRAMME		
8:30	KEYNOTE at Plenary Hall		
9:30	SCIENTIFIC COMMITTEE CLOSING & AWARD CEREMONY Piecing It Together for a Resilient Tomorrow		
10:30	END OF PROGRAMME		

DAY 1: Tuesday, 8 November 2022

TIME	PROGRAMME
8:30	REGISTRATION
9:30	COFFEE BREAK
11:00	Infectious Diseases Threats in Southeast Asia (AMR)
	From Zoonosis to Antimicrobial Resistance PRESENTATION PANEL DISCUSSION
13:00	LUNCH BREAK
14:00	One Health Science (OHS)
	Pathogen Genomics Surveillance in Africa and Asia PLENARY 1 Genomic Sequencing for Public Health Surveillance PANEL DISCUSSION Emerging Lessons from the Africa Pathogen Genomics Initiative 3 years On
	PLENARY 2 Findings from a Landscape Assessment of the Current Status and Bottlenecks in Genomic Surveillance in Asia PANEL DISCUSSION Country Priorities for Genomic Surveillance in Asia
16:00	END OF SESSION

DAY 2: Wednesday, 9 November 2022

TIME	PROGRAMME
7:00	REGISTRATION
10:30	COFFEE BREAK
11:00	Scientific Evidence for Pandemic Communications (PEB)
	Scientific Evidence for Pandemic Communications PRESENTATION KEYNOTE The Important Role of Communication of Scientific Evidence in Managing a Pandemic or Outbreak PANEL DISCUSSION How Did Governments Manage Scientific Communication During the Pandemic? How Can We Leverage Technology and Social Listening to Improve Scientific Communications and Manage Public Health?
13:00	LUNCH BREAK

DAY 2: Wednesday, 9 November 2022

TIME	PROGRAMME
14:00	Impact on and Innovations in Clinical Practice (IICP)
	<p>How Can Health Systems in LMICs Leverage on Innovations to Tackle The Growth in Depth An Breadth of Their Disease Burden While Addressing The Concerns of Environmental Sustainability?</p> <p>PRESENTATION AND PANEL DISCUSSION</p> <p>Dealing with crisis in resource constrained environments while planning for the long game</p>
16:00	END OF SESSION

DAY 3: Thursday, 10 November 2022

TIME	PROGRAMME
7:00	REGISTRATION
10:30	COFFEE BREAK
11:00	Pandemic Preparedness and Health Systems Resilience (PPHSR)
	<p>Transformational Innovation for Preparedness and Resilience</p> <p>PRESENTATION</p>
13:00	END OF SESSION

CONGRESS VENUE

The 7th World One Health Congress (WOHC 2022) will be held at the Sands Expo & Convention Centre
10 Bayfront Avenue
Singapore 018956

CONGRESS SECRETARIAT ROOM

Meeting Room 5001, Level 5, Sands Expo & Convention Centre

Operating Hours:

Day	Date	Time
Sunday	6 November 2022	14:00 – 18:30
Monday - Thursday	7 – 10 November 2022	07:00 – 18:00
Friday	11 November 2022	07:00 – 13:00

REGISTRATION AND INFORMATION DESKS

The Registration Desk is located at the Level 5 Foyer, Sands Expo & Convention Centre and the Operating Hours will be as follows:

Day	Date	Time	Location
Sunday	6 November 2022	15:00 – 20:00	Level 5 Foyer
Monday - Thursday	7 – 10 November 2022	07:00 – 18:00	Level 5 Foyer

BADGES

Please note that delegates are required to wear their congress name badges at all times at Sands Expo & Convention Centre. Access to all venues will be monitored. Name badges are not transferable. The Organiser reserves the right to request proof of identity.

Should you lose your badge, please proceed to the Registration Counter at Level 5 Foyer, Sands Expo & Convention Centre, for a replacement badge. Each replacement badge will cost **SGD 50.00** + GST.

A badge recycling box is available at the registration counter.

*You understand that by allowing your badge to be scanned during the Congress, you are giving consent to share your personal data with the sponsors and exhibitors, allowing them to contact you about their products or services and any information collected may be shared outside of Singapore for the same purposes.

SCIENTIFIC SESSIONS (HYBRID)

All scientific sessions and the Lunch Symposium will simultaneously be physical with live streaming to the virtual audience.

ROOM CAPACITIES

We make every effort to ensure the room size is appropriate for the session, based on the information provided to us by delegates when they registered for the Congress.

We regret we cannot guarantee availability in any particular session, although we do our best to avoid any disappointment. To ensure that you are able to view the sessions, the sessions will be live streamed into adjacent overflow rooms.

OPENING CEREMONY

Venue : Plenary Hall (Room E – L), Sands Grand Ballroom, Level 5, Sands Expo & Convention Centre
Day/ Date/ Time : Monday, 7 November 2022, 9:30 am – 10:30 am
Guest-of-Honour : Mdm Halimah Yacob
 President of the Republic of Singapore
Dress Code : Business professional

Open to all registered participants, including sponsors and exhibitors

EXHIBITIONS

The Exhibition for WOHC 2022 will be held at the Pre-function Area of Sands Grand Ballroom, Level 5, Sands Expo & Convention Centre. Delegates may take the opportunity to network and exchange information with exhibitors.

Operating Hours:

Day	Date	Time
Monday – Thursday	7 - 10 November 2022	08:00 – 17:00

INDUSTRY-SPONSORED SYMPOSIA

The lunch Symposium organised by the industry will take place as follows:

Day	Date	Time	Room
Monday	7 November 2022	13:00 – 14:00	B

The dinner Symposium organised by the industry will take place as follows:

Day	Date	Time	Room
Tuesday	8 November 2022	18:00 – 19:30	M

CATERING AT THE EXHIBITION & POSTER AREAS

Catering will occur at Sands Grand Ballroom Pre-Function Area, Level 5, Sands Expo & Convention Centre.

Tea / Coffee Breaks will take place at the following times

Day	Date	AM Break	PM Break
Monday - Thursday	7 – 10 November 2022	10:30 – 11:00	16:00 – 16:30
Friday	11 November 2022	10:30 – 11:00	

Mini Buffet Lunches will be serve from 7 - 10 November 2022, 13.00 - 14.00.

WIFI

A dedicated, high-density Congress WiFi is available throughout Level 5, Sands Expo & Convention Centre.

INTERNE SSID: WOHC2022

SSID Password: WOHC2022SG

BUSINESS CENTRE

The Business Centre is located in the executive offices on Level 3 of the Sands Expo & Convention Centre. The Centre offers a full range of office support services for ease and convenience.

SOCIAL MEDIA

Join the conversation using the hashtag #WOHC2022

Twitter icon: <https://twitter.com/WOHCongress>

Facebook icon: <https://www.facebook.com/worldonehealthcongress/>

CERTIFICATES OF ATTENDANCE

After the Congress, a link to an online evaluation form will be sent to all delegates via email. Once you have submitted the form, you will receive your certificate of attendance.

INSURANCE

The Organisers are unable to accept any responsibility for damage or loss of personal property during the Congress

LANGUAGE

The official language of the Congress is English. There will be no simultaneous interpretation.

LOST AND FOUND

For information on any lost and found property, please check with the WOHC 2022 Secretariat Office in Room 5001, Level 5 Foyer,

HELP DESK

Help desk is located at the Registration Counter.

MOBILE PHONES

Delegates are requested to turn their mobile phones or devices to silent when entering sessions.

SELF-PARK CAR PARKING

Licensees, guests and visitors to the Centre may use the public car parking at Sands Expo & Convention Centre on a first-come-first-serve basis at the prevailing car parking rates and according to the official operating hours (Car park is 24/7). Please note that the clearance height at the Public Car Park is 2.0 meters.

Please refer to the available parking charges for motor cars below:

Day	7:00 to 19:00 hours		7:00 to 19:00 hours
	1st Hour	Sub ½ Hour	Per Entry
Mon – Thurs	\$ 9.00	\$1.10	\$ 9.00
Fri	\$12.00	\$1.10	\$12.00
Sat-Sun, PH Eve & PH	\$12.00	\$1.10	\$12.00
Maximum Charge	\$27.40		

Note: Car park rates are subject to changes

Concession Coupon

Visitors to the WOHC 2022 who prefer to self-park may enjoy a special rate of \$8.56 (including GST charges) on weekdays with the Concession Coupon.

To obtain the Concession Coupon, participants or exhibitors must present the event badge to the MICE counter staff at the collection point. The Concession Coupon can be obtained from the following location:

- 1) MICE Service Centre, L1
- 2) MICE Business Centre, L3

Opening hours:

Monday – Friday: 8:00 – 18:00 Hours.

Saturday – Sunday/Public Holiday, 8:00 – 17:00 Hours

MEDIA PRESENCE

As the 7th World One Health Congress is an open public-facing hybrid event, credentialed media representatives will be present in person or virtually to cover programme proceedings and promote a greater public understanding of key issues and advancements of the One Health agenda.

PHOTOGRAPHY & RECORDING

Please note that there will be general photo-taking and recording during the Congress event programme, which may be used for publicity and/or public education purposes. As a hybrid event, programme sessions/presentation videos are live-streamed between the in-person event and the WOHC virtual platform. Sessions will be available on demand on the virtual platform after the Congress for one month.

LATEST INFORMATION ON SAFE TRAVEL ARRANGEMENTS

For the latest information on Safe Travel arrangements for arrival, transit or departure, click on this link: <https://safetravel.ica.gov.sg/>
Or

Travelling to Singapore: Checklists and Entry Requirements <https://safetravel.ica.gov.sg/arriving/overview#checklist>

CURRENCY

The Singapore dollar (SGD) is the official currency of Singapore. An online converter is available at www.xe.com

PRAYER ROOM

A prayer room will be provided for delegates of any faith within the Congress venue at Simpor Junior Room 4910, Level 4, Sands Expo & Convention Centre.

TRANSFERS

The Organiser will not provide transport to and from Sands Expo & Convention Centre; your hotel's concierge will be able to assist you with booking a reputable taxi.

VAT/TAX REFUNDS ON DEPARTURE

As a tourist in Singapore, if you purchase more than SGD 100 (including GST) at participating shops, you may claim a refund on your purchases of 7% Goods and Services Tax (GST).

You are entitled to up to 3 same-day receipts/invoices from shops bearing the same GST registration number to meet this minimum purchase amount of SGD 100. To know whether a shop is participating in the Tourist Refund Scheme (TRS), look for a "Tax-Free" shopping logo or sign displayed at the shop. You can also check with the retailer whether your purchases are eligible for a GST refund.

Original tax invoices, foreign passport, plus all the items on which a refund is claimed, must be presented at the VAT Refund Administration Office or an appointed RSA Customs and Excise Official from the airport on departure.

DISCLAIMER

The information and content provided in this e-Programme Book are intended purely as a guideline and service for participants and visitors to the 7th World One Health Congress. The information may change at any time and without notice. The event and organisers accept no responsibility or liability whatsoever related to this publication, and delegates are advised to ensure that such items are adequately insured.

Original tax invoices, foreign passport, plus all the items on which a refund is claimed, must be presented at the VAT Refund Administration Office or an appointed RSA Customs and Excise Official from the airport on departure.

SCIENTIFIC SESSIONS

The WOHC 2022 is an entirely hybrid Congress, i.e. all scientific sessions will be live-streamed to a virtual audience simultaneously. Recordings of all scientific sessions will be available for all participants (virtual and in-person), on demand, on the virtual platform for one month from the end of the WOHC 2022.

All in-person and virtual participants will have access to the [WOHC 2022 Virtual Platform](#) and will be able to visit the e-Exhibition booths, view the e-Posters, chat with other participants, and fix appointments for a virtual meeting during congress week.

ORAL PRESENTATIONS

All selected oral abstract presentations will take place within selected scientific tracks. For abstracts being presented in selected tracks, please refer to the full programme on page 13. For the full list of presenting abstracts, please refer to the abstract e-book.

SPEAKERS, SESSION CHAIRS & ORAL PRESENTERS

All speakers, sessions chairs and oral presenters can register in the Speakers' Preview Room. Please head to Speakers' Preview room (5101) upon arrival.

POSTER DISPLAYS

Abstract posters will be on display at the Exhibition Area outside the main plenary hall. Each poster board will be individually marked with the Abstract ID number. For the full list of posters displayed, please refer to the abstract e-book.

Posters can be viewed in the exhibition area from Monday, 7 November 2022 from 8 am to Thursday, 10 November 2022, 4.30pm. E-posters can be viewed via the congress virtual platform.

POSTER DISPLAYS

All poster presenters can register at the registration counter during registration hours. Velcro will be provided for poster presenters to put up their posters in the Exhibition Area.

KEYNOTE PROGRAMME		Plenary Room	07 November 2022
KEYNOTES			9:30 - 10:30 SGT
9:30	OPENING CEREMONY		
9:35	WELCOME ADDRESS Prof Linfa WANG , Duke-NUS Medical School Singapore Prof Ab OSTERHAUS , University of Veterinary Medicine Hanover, Germany Prof John MACKENZIE , Curtin University, Australia		
9:50	OPENING ADDRESS Guest-of-Honour Mdm Halimah Yacob President of the Republic of Singapore OFFICIAL OPENING OF CONGRESS		
10:10	OPENING REMARKS Dr Tedros Adhanom GHEBREYESUS (Virtual) , World Health Organization		
10:15	OPENING REMARKS Dr Monique ELOIT , World Organisation for Animal Health		
One Health Science (OHS)		Plenary Room	07 November 2022
ABSTRACT SESSION:			11:00 - 13:00 SGT
Pandemic Preparedness: Detect, Prevent and Respond I Session Chair / Moderator: Prof Marietjie VENTER , University of Pretoria, South Africa			
	OPENING REMARKS Prof Marietjie VENTER , University of Pretoria, South Africa		
	Prof Marion KOOPMANS (Virtual) , Netherlands Centre for One Health, The Netherlands Q & A		
	ABSTRACT PRESENTATION 15182 Epidemiology and genetic diversity of coronaviruses in bats, Bangladesh Dr Ariful ISLAM , EcoHealth Alliance Bangladesh Program, IEDCR, Bangladesh Q & A		
	15051 Monkeypox – a descriptive analysis of outbreaks in Nigeria 20017-2022 Dr Chinenye EMELIFE , Nigeria Centre for Disease Control, Nigeria Q & A		
	15223 Global epidemiology of animal influenza infections Dr Michael WARD , Sydney School of Veterinary Science, Australia Q & A		
	15365 Enhancing epidemic preparedness through community-based surveillance in Kenya Mrs Naomi NGARUIYA , Kenya Red Cross Society, Kenya Q & A		
	15037 From theoretical to technical: lessons learned from assessment of zoonotic SARS COV-2 coordinated surveillance in the United States Dr Ria GHAI , U.S. Centers for Disease Control and Prevention, United States of America Q & A		
	15208 Advancing One Health for Global Health Security: What does the evidence say? Prof Jakob ZINSSTAG , Swiss Tropical and Public Health Institute, Switzerland Q & A		
	CLOSING REMARKS Prof Marietjie VENTER , University of Pretoria, South Africa		

One Health Science (OHS)	Room (O)	07 November 2022
ABSTRACT SESSION: Pandemic Preparedness: Detect, Prevent and Respond II Session Chair / Moderator: Prof Albert OSTERHAUS , University of Veterinary Medicine Hannover, Germany		11:00 - 13:00 SGT
OPENING REMARKS Prof Albert OSTERHAUS , University of Veterinary Medicine Hannover, Germany		
Prof Marion KOOPMANS (Virtual) , Netherlands Centre for One Health, The Netherlands Q & A		
ABSTRACT PRESENTATION 15171 Adoption of an implementation science approach to achieve zero COVID-19 transmissions in staff at a large community care facility in Singapore during the COVID-19 pandemic Dr Weien CHOW , SingHealth, Singapore Q & A		
15039 A recombinant chimeric cedar virus-based platform as a rapid surrogate neutralization assay for pathogenic henipaviruses Dr Moushimi AMAYA , Uniformed Services University, United States of America Q & A		
15380 The One Health integrated surveillance system reveals the growth of Rift Valley fever outbreaks in Sudan Mr Ayman AHMED , The Institute of Endemic Diseases, University of Khartoum, Sudan Q & A		
15373 Multiplex assays: an attractive option for simultaneous surveillance of influenza, respiratory syncytial virus, and severe acute respiratory syndrome coronavirus-2 Dr Erik KARLSSON , Virology Unit, Institut Pasteur du Cambodge, Cambodia Q & A		
15359 Healthy lives from sustainable food systems - Lessons learnt from the 2022 Uppsala Health Summit Prof Karin ARTURSSON , National Veterinary Institute, Sweden Q & A		
CLOSING REMARKS Prof Albert OSTERHAUS , University of Veterinary Medicine Hannover, Germany		
One Health Science (OHS)	Plenary Room	07 November 2022
ABSTRACT SESSION: Risk factors Driving Zoonotic Infections I Session Chair / Moderator: Prof Gavin SMITH , Duke-NUS Medical School, Singapore		14:00 - 16:00 SGT
OPENING REMARKS Prof Gavin SMITH , Duke NUS Medical School, Singapore		
Prof Dirk PFEIFFER , Centre for Applied One, Health Research and Policy Advice, Hong Kong SAR Q & A		
ABSTRACT PRESENTATION 14876 Small mammals as reservoirs of emerging pathogens causing lethal encephalitis in animals and humans Ms Viola HARING , Friedrich-Loeffler-Institut, Germany Q & A		
14791 Human behavior strategies to mitigate zoonotic spill over risk Ms Hongying LI , EcoHealth Alliance, United States of America Q & A		
15041 Pilot survey of cystic echinococcosis in Masaai livestock-keeping communities of Northern Tanzania Prof Sarah CLEAVELAND , University of Glasgow, United Kingdom Q & A		

One Health Science (OHS)	Plenary Room	07 November 2022
ABSTRACT SESSION: Risk factors Driving Zoonotic Infections I Session Chair / Moderator: Prof Gavin SMITH , Duke-NUS Medical School, Singapore		14:00 - 16:00 SGT
14917 Assessing acute febrile diseases of unknown cause in Africa through the ANDEMIA network Dr Adriano MENDES , University of Pretoria, South Africa Q & A		
14984 Predictors of Mortality among Middle East Respiratory Syndrome Coronavirus (MERS-CoV) patients globally (2017-2022): a retrospective cohort study Dr Paul YONGA , CA Medlynks Clinic and Laboratory/Fountain Health Care Hospital, Kenya Q & A		
CLOSING REMARKS Prof Gavin SMITH , Duke-NUS Medical School, Singapore		
One Health Science (OHS)	Room (O)	07 November 2022
ABSTRACT SESSION: Risk factors Driving Zoonotic Infections II Session Chair / Moderator: Prof John MACKENZIE , Curtin University, Australia		14:00 - 16:00 SGT
OPENING REMARKS Prof John MACKENZIE , Curtin University, Australia		
Prof Dirk PFEIFFER , Centre for Applied One, Health Research and Policy Advice, Hong Kong SAR Q & A		
ABSTRACT PRESENTATION 15319 National sero-prevalence and spatial distribution of Brucella spp. in Kenya Dr James AKOKO , International Livestock Research Institute, Kenya Q & A		
15413 Molecular dynamics changes of rotavirus genotypes and its recombination with animal strains among pediatric patients in Indonesia during 2015-2020 Dr Laura Navika YAMANI , Universitas Airlangga, Indonesia Q & A		
15169 Situation analysis of Kyasanur Forest Disease in Kannangi of Tirthahalli taluk, Shivamogga District, Karnataka, India, January Dr Mohamed Jainul AZARUDEEN , National Centre For Disease Control, India Q & A		
14840 Mapping the risk of taenia solium in Lao PDR Dr Andrew LARKINS National Centre For Disease Control, Australia Q & A		
15290 Participatory survey of risk factors and pathways for Rift Valley fever in pastoral and agropastoral communities of Uganda. Dr Dan TUMUSIIME , Ministry of Agriculture, Animal Industry and Fishes, Uganda Q & A		
15104 A prospective cohort study of influenza A risk among swine workers and comparison households in south-central cambodia Dr Monivan CHHOUR , University of Health Sciences Cambodia, Cambodia Q & A		
CLOSING REMARKS Prof John MACKENZIE , Curtin University, Australia		

Antimicrobial Resistance (AMR)	Room (D + C)	07 November 2022
ABSTRACT SESSION: One Health approach to integrated AMR surveillance Sub Theme: Standardised integrated One Health AMR and Antimicrobial use (AMU) / Antimicrobial consumption (AMC) surveillance Session Chair / Moderator: Prof Ramanan LAXMINARAYAN, Director, One Health Trust		11:00 - 13:00 SGT
TOPIC PRESENTATIONS		
Prof Joakim LARSSON (Virtual), Professor of Environmental Pharmacology at the Department of Infectious Disease, University of Gothenburg Sweden		
Dr Dawn SIEVERT (Virtual), Senior Science Advisor, Antimicrobial Resistance Coordination and Strategy, Centers for Disease Control and Prevention, United States of America		
Dr Richard REID-SMITH (Virtual), Veterinary Epidemiologist, Public Health Agency of Canada, Canada		
Dr Patrick MCDERMOTT, Director of the National Antimicrobial Resistance Monitoring System Center of Veterinary Medicine, US Food and Drug Administration, United States of America		
ABSTRACT PRESENTATION 14689 Barriers to comprehensive veterinary care in poultry farms in Bangladesh and their impact on rising antimicrobial resistance: A qualitative study Dr Abdullah SATTAR, Department of Medicine and Surgery, Faculty of Veterinary Medicine Chattogram Veterinary and Animal Sciences University, Bangladesh		
14892 Bacteriophage utility as One-Health approach to reduce antibiotic-resistant bacteria Dr Thong SHUHUA, Pharmacy, Singapore General Hospital, Singapore		
15151 Legislation on restrictions on antimicrobials intended for animal consumption in Viet Nam: Where do we go from here? Dr Chu Duc HUY, Department of Animal Health, Vietnam		
15105 Strengthening One Health governance of AMR/AMU surveillance - The Fleming fund experience Dr Joanna MCKENZIE, School of Veterinary Science, Massey University, New Zealand		
14685 Using antimicrobial use surveillance to measure the effects of a pragmatic antimicrobial stewardship trial in 135 veterinary practices Prof James GILKERSON, Professor of Veterinary Microbiology, University of Melbourne, Australia		
15287 Roadmap from COVID-19 surveillance to a sustainable One Health & AMR surveillance ecosystem Ms Kelly HOON, Illumina, Inc. , United States of America		
PANEL DISCUSSION AND Q&A		
End of Session		

Antimicrobial Resistance (AMR)	Room (D + C)	07 November 2022
<p>ABSTRACT SESSION: One Health approach to integrated AMR surveillance Sub Theme: Environmental AMR monitoring Session Chair / Moderator: Prof Joergen SCHLUNDT, Consultant, Schlundt Consulting</p>		<p>14:00 - 16:00 SGT</p>
TOPIC PRESENTATIONS		
<p>Prof Yonghong XIAO (Virtual), Principal Investigator, State Key Laboratory for Diagnosis & Treatment of Infectious Diseases The First Affiliated Hospital, Zhejiang University School of Medicine (FAHZU)</p>		
<p>Prof Lance PRICE, Founding Director, Antibiotic Resistance Action Center George Washington University's Milken Institute School of Public Health</p>		
<p>Dr Jay GARLAND (Virtual), Senior Research Scientist, Center for Environmental Solutions and Emergency Response United States Environmental Protection Agency</p>		
<p>Prof Frank M AARESTRUP, Head of Research Group for Genomic Epidemiology, National Food Institute Technical University of Denmark</p>		
<p>ABSTRACT PRESENTATION 15065 One Health Applications of Antimicrobial Resistance Detection using CZ ID – An Open Source Cloud-based Pipeline and Analysis Tool for Metagenomic Pathogen Detection Dr Katrina KALANTAR, Chan Zuckerberg Initiative, United States of America</p>		
<p>14910 Migratory Birds in Bangladesh Harbour Multidrug Resistant Non-Typhoidal Salmonella of Public Health Significance Dr Roderick CARD, Department of Bacteriology, Animal and Plant Health Agency, United Kingdom</p>		
<p>14696 Genotypic profile of XDR Escherichia coli isolated from broilers in Ilorin, North Central Nigeria Dr Ahmad AL-MUSTAPHA (Virtual), Department of Food Hygiene and Environmental Health University of Helsinki, Finland (Suomi)</p>		
<p>14733 Surveillance of antibiotic-resistant genes (ARGs) associated with tuberculosis treatment from wastewater treatment plants (WWTPs) in Sub-Saharan Africa Ms Hlengiwe MTETWA, Institute of Water and Wastewater Technology Durban University of Technology, South Africa</p>		
PANEL DISCUSSION AND Q&A		
Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (M + N)	07 November 2022
<p>ABSTRACT SESSION: The Lancet One Health Commission: One Health Implementation, Impact, and Evaluation Session Chairs / Moderators: Prof John AMUASI, Senior Lecturer and Head, Department of Global Health, School of Public Health Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana Prof Andrea WINKLER, Center for Global Health, Technical University of Munich, Germany, Centre for Global Health, University of Oslo, Norway</p>		<p>11:00 - 13:00 SGT</p>
TOPIC PRESENTATIONS		
<p>Socioecological interconnection as the foundation for One Health Prof Carlos das NEVES (Virtual), Chief Scientist, European Food Safety Authority</p>		
<p>Current developments in One Health governance Dr Chadia WANNOUS, One Health Global Coordinator World Organisation for Animal Health (WOAH)</p>		

Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (M + N)	07 November 2022
ABSTRACT SESSION: The Lancet One Health Commission: One Health Implementation, Impact, and Evaluation		11:00 - 13:00 SGT
Session Chairs / Moderators: Prof John AMUASI , Senior Lecturer and Head, Department of Global Health, School of Public Health Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana Prof Andrea WINKLER , Center for Global Health, Technical University of Munich, Germany, Centre for Global Health, University of Oslo, Norway		
The added value of One Health and One Health metrics Dr Barbara HÄSLER , Professor in Agrihealth Royal Veterinary College, United Kingdom, Science and evidence lead (One Health), FAO		
One Health financing structures and instruments Dr Franck BERTHE , Senior Livestock Specialist, Agriculture Global Practice, World Bank		
The case for a pandemic treaty and the role of One Health Prof David HEYMANN , Professor of Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine, United Kingdom		
PANEL DISCUSSION AND Q&A		
Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (M)	07 November 2022
ABSTRACT SESSION: Secondary/indirect impact to human and animal health I		14:00 - 16:00 SGT
Session Chair / Moderator: Prof Laurent RËNIA , Senior fellow and Senior Principal Investigator /Pathogen Immunobiology Lab A*STAR Infectious Diseases Labs		
TOPIC PRESENTATIONS		
Dr Jesse BLOOM (Virtual) , Professor, Basic Sciences Division, Fred Hutchinson Cancer Center Q & A		
Dr Kevin OLIVIAL (Virtual) , Vice President for Research, EcoHealth Alliance Q & A		
Prof Anne RIMOIN (Virtual) , Professor, Department of Epidemiology Gordon-Levin Endowed Chair in Infectious Diseases and Public Health Q & A		
ABSTRACT PRESENTATION 14818 Targeting investments in One Health systems strengthening: A pilot from the African continent Dr William KARESH , Executive Vice President, EcoHealth Alliance		
14793 Evaluation of the planning and performance of the “one health” platform with the OH-APP tool in Côte d’Ivoire Dr Aristide DIONKOUNDA , DAI, Ivory Coast		
14924 THE POWER OF COLLABORATION: USING A ONE HEALTH APPROACH DURING THE U.S. GOVERNMENT RESPONSE TO COVID-19, UNITED STATES Dr Casey Barton BEHRAVESH U.S. Centers for Disease Control and Prevention One Health Office, United States of America		
15167 Sustaining health services during COVID19 pandemic: A case of Inter-sectoral collaboration & health system resilience from Ahmedabad, India Dr Sandul YASOBANT , Indian Institute of Public Health Gandhinagar (IIP), India		
15058 HOW ARE ONE HEALTH PLANS FOR ZOOSES ADDRESSING THEIR DRIVERS? Ms Alessia MILANO Istituto Superiore di Sanità, Italy		

Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (N)	07 November 2022
ABSTRACT SESSION: Secondary/indirect impact to human and animal health II		14:00 - 16:00 SGT
Session Chair / Moderator: Dr Vincent Junxiong PANG , SingHealth Duke-NUS Global Health Institute, Singapore		
TOPIC PRESENTATIONS		
Dr Jesse BLOOM (Virtual) , Professor, Basic Sciences Division, Fred Hutchinson Cancer Center Q & A		
Dr Kevin OLIVIAL (Virtual) , Vice President for Research, EcoHealth Alliance Q & A		
Prof Anne RIMOIN (Virtual) , Professor, Department of Epidemiology Gordon-Levin Endowed Chair in Infectious Diseases and Public Health Q & A		
ABSTRACT PRESENTATION		
14936 One-Health Initiatives by Department of Animal Husbandry and Dairying, Government of India Dr Aruna SHARMA , DAHD, Government of India		
15233 Regulation in the animal health system in Cambodia: opportunities to make progress towards One Health Objectives Ms Sreytouch VONG , Researcher, COHERES project		
15116 Using legislation to underpin a One Health approach to address antimicrobial resistance Ms Carmen BULLÓN , Food and Agriculture Organization of the United Nations		
14935 Instituting a Multi-sectoral Collaboration for Public Health Emergency Preparedness and Response at a Point of Entry using a One-Health Paradigm. Dr Elizabeth Titilope AJAYI-OGBE , Pro-Health International, Nigeria		
15038 Enhancing preparedness through the integration of One Health approaches: the Anthrax case in Armenia Dr Maria Grazia DENTE , Istituto Superiore di Sanità, Italy		
Evening Panel	Plenary Room	07 November 2022
PANEL DISCUSSION: Latest Scientific Advances on One Health		16:30 - 18:00 SGT
Session Chair / Moderator: Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		
OPENING REMARKS		
Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		
Prof Leo POON , School of Public Health, University of Hong Kong		
Dr Erik KARLSON , Pasteur Institute, Cambodia		
Prof David AANERSEN , Centre for Genomic Pathogen Surveillance, Big Data Institute, University of Oxford, United Kingdom		
Mr Peter DASZAK , EcoHealth Alliance		
PANEL DISCUSSION AND Q&A		
CLOSING REMARKS		
Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		

KEYNOTE PROGRAMME		Plenary Room	08 November 2022
KEYNOTES			8:30 - 10:30 SGT
8:30	The science and importance of tracing SARS-CoV-2 origin Prof Linfa WANG , Duke-NUS Medical School Singapore		
9:00	Developing an international focus on One Health Dr Thomas METTENLEITER , Federal Research Institute for Animal Health, Germany Prof Wanda MARKOTTER , University of Pretoria, South Africa Session Chair: Prof John MACKENZIE , Curtin University, Australia		
9:30	Quadripartite One Health Joint Plan of Action Dr Jean Philippe DOP , World Organisation for Animal Health Dr Francesco BRANCA , Nutrition and Food Safety World Health Organization Dr Keith SUMPTION , Food and Agriculture Organization of the United Nations Ms Doreen ROBINSON , United Nations Environment Programme Session Chair: Dr William B KARESH , EcoHealth Alliance		
One Health Science (OHS)		Room (M)	08 November 2022
ABSTRACT SESSION:			11:00 - 13:00 SGT
Risk Factors Driving Zoonotic Infections I			
Session Chair / Moderator: Prof Chris WOODS , School of Medicine, United States of America			
OPENING REMARKS Prof Chris WOODS , School of Medicine, United States of America			
Prof Sarah CLEVELAND , University of Glasgow, Scotland Q & A			
ABSTRACT PRESENTATION			
15040	Diversity and spillover risk of swine acute diarrhea syndrome-related coronaviruses in China and Southeast Asia Dr Cadhla FIRTH , EcoHealth Alliance, United States of America Q & A		
15024	Forest fragmentation drives zoonotic malaria presence in non-human primate hosts Ms Emilia JOHNSON , University of Glasgow, United Kingdom Q & A		
14955	The incidence of sindbis virus in horses with febrile and neurological signs and molecular characterisation of strains in South Africa Ms Kgothatso MENO , University of Pretoria, South Africa Q & A		
15094	A risk-based mutual insurance framework to generate national vulnerability indices for agro/bio-crime or agro/bio-terror events involving zoonotic disease agents Dr Harvey Morgan SCOTT , Texas A&M University, United States of America Q & A		
14927	A powerful tool in need of an instrument: application of wearable technologies for measurement of human-animal contact networks Dr Julianne MEISNER , University of Washington, United States of America Q & A		
CLOSING REMARKS Prof Chris WOODS , School of Medicine, United States of America			

One Health Science (OHS)	Room (N)	08 November 2022
ABSTRACT SESSION: Risk Factors Driving Zoonotic Infections II Session Chair / Moderator: Dr Katinka DE BALOGH, FAO, Italy		11:00 - 13:00 SGT
OPENING REMARKS Dr Katinka DE BALOGH, FAO, Italy		
Prof Sarah CLEVELAND, University of Glasgow, Scotland Q & A		
ABSTRACT PRESENTATION 14871 The rat hepatitis E virus prevalence and associated factors in rodent population in Cambodia rural and urban settings. Mr Oudamdaniel YANNETH, Institut Pasteur du Cambodge, Cambodia Q & A		
15129 Avian influenza is often masked by respiratory co-infections in small-scale poultry farms in Bangladesh- A potential driver for zoonotic spillover Prof MD Rafiqul ISLAM, Bangladesh Agricultural University, Bangladesh Q & A		
15309 Mixed species farming in Vietnam: potential risk of cross-species transmission and zoonotic disease emergence Mr Cuong NGUYEN, Oxford University Clinical Research Unit, Vietnam Q & A		
15124 Qualitative risk assessment addressing the risk of zoonotic H5 high pathogenicity avian influenza introduction into central and south americas Dr Madhur DHINGRA, Food and Agriculture Organization of the United Nations Q & A		
15109 Characterizing influenza epidemiology and dynamics at the swine-human interface in Cambodia: The pigflucam+ Dr James RUDGE, London School of Hygiene and Tropical Medicine, Thailand Q & A		
14680 Identification and quantification of risk factors driving vector-borne zoonotic infections in northern Italy Prof Roberto ROSA, University of Trento, Italy Q & A		
CLOSING REMARKS Dr Katinka DE BALOGH, FAO, Italy		
One Health Science (OHS)	Plenary Room	08 November 2022
ABSTRACT SESSION: Discovery and Surveillance I Session Chair / Moderator: Prof Mark RWEYEMAMU, SACIDS Foundation for One Health, Tanzania		14:00 - 16:00 SGT
OPENING REMARKS Prof Mark RWEYEMAMU, SACIDS Foundation for One Health, Tanzania		
Prof David Heymann, London School of Hygiene and Tropical Medicine, United Kingdom Q & A		
ABSTRACT PRESENTATION 15375 Austrakka – A national pathogen genomics surveillance platform bridging the gap in data sharing, integration and analysis Prof Benjamin HOWDEN, University of Melbourne, Australia Q & A		

One Health Science (OHS)	Plenary Room	08 November 2022
ABSTRACT SESSION: Discovery and Surveillance I		14:00 - 16:00 SGT
Session Chair / Moderator: Prof Mark RWEYEMAMU , SACIDS Foundation for One Health, Tanzania		
15259	Working on NTDs to prevent epidemics through the strengthening of health systems Dr Deborah NADAL , WHO Q & A	
14993	Highly divergent SARS-COV-2 from North American deers with probable deer-to-human transmission Dr Samira MUBAREKA , University of Toronto, Canada Q & A	
14932	Mosquitoes as flying syringes: using blood meal for fast and effective virus surveillance in humans and wildlife Ms Carla VIEIRA , QUT and QIMR Berghofer Institute of Medical Research, Australia Q & A	
CLOSING REMARKS Prof Mark RWEYEMAMU , SACIDS Foundation for One Health, Tanzania		
One Health Science (OHS)	Room (O)	08 November 2022
ABSTRACT SESSION: Discovery and Surveillance II		14:00 - 16:00 SGT
Session Chair / Moderator: Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		
OPENING REMARKS Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		
Prof David Heymann , London School of Hygiene and Tropical Medicine, United Kingdom Q & A		
ABSTRACT PRESENTATION		
15221	Mosquitoes as flying syringes: using blood meal for fast and effective virus surveillance in humans and wildlife Dr Bola LAWAL , Nigeria Center for Disease Control, Nigeria Q & A	
15029	Asian house shrews (suncus murinus) in Singapore harbour a novel orthonairovirus Dr Dolyce LOW , Duke-NUS medical school, Singapore Q & A	
15014	Extensive movement and recombination of SARS-related coronaviruses across China and Southeast Asia Mr Spyros LYTRAS , University of Glasgow, United Kingdom Q & A	
14831	Behavioral-biological surveillance of emerging infectious diseases among a dynamic cohort in Thailand Ms Su YADANA , EcoHealth Alliance, United States of America Q & A	
15426	How a global genomics movement can address biosecurity threats Dr Phillip G. FEBBO , Illumina, United States of America Q & A	
CLOSING REMARKS Dr Larry MADOFF , Massachusetts Department of Public Health, United States of America		

Policy, Environment and Biosecurity (PEB)	Plenary Room	08 November 2022
PANEL DISCUSSION: Operationalisation, Systems Coordination and Science-Policy Linkage Session Chair / Moderator: Mr David QUAMMEN, Author, Spillover		11:00 - 13:00 SGT
OPENING REMARKS Mr David QUAMMEN, Author, Spillover		
Dr Anders NORDSTRÖM, Ministry for Foreign Affairs, Sweden		
PANEL DISCUSSION What countries are doing to operationalize One Health Dr Ng Lee Ching, Group Director, Environmental Health Institute, National Environment Agency, Singapore Mr Budi Gunadi SADIKIN, Ministry of Health, Indonesia Dr Sala SAKETA, Pacific Community, Fiji Dr George GAO, Chinese Academy of Sciences		
PRESENTATION Dr Francesco BRANCA, World Health Organization		
PANEL DISCUSSION Multi-lateral perspectives on operationalizing One Health Ms Doreen ROBINSON, United Nations Environment Programme Dr Chadia WANNOUS, World Organisation for Animal Health Dr Franck BERTHE, World Bank Dr John WEAVER, Weaver Consulting International		
Policy, Environment and Biosecurity (PEB)	Room (M)	08 November 2022
ABSTRACT SESSION: Globalisation and Human Drivers of Disease in a Rapidly Changing World I Session Chairs / Moderators: A/Prof Taufique JOARDER, SingHealth Duke-NUS Global Health Institute, Singapore		14:00 - 16:00 SGT
OPENING REMARKS A/Prof Taufique JOARDER, SingHealth Global Health Institute, Singapore		
ABSTRACT PRESENTATION Monitoring One Health Determinants 15092 Identifying future global hotspots of deforestation and biodiversity loss to inform One Health risk Prof Abihishek CHAUDHARY, Indian Institute of Technology (IIT) Kanpur, India		
15163 Global monitoring of upstream determinants across the steep pillars for health emergencies Ms Prativa BARAL, Johns Hopkins School of Public Health / WHO, Canada		
15012 The Approaching Pilot for One Health Governance Index Dr Odel LI, China CDC/ Shanghai, China		
14781 Wildlife and zoonotic disease risk management in China: examine gaps and One Health opportunities in scopes, mandates, and monitoring systems Ms Hongying LI, EcoHealth Alliance, United States of America		
15004 Establishment of an indicator framework for Global One Health Intrinsic Drivers index based on the Grounded Theory – NICE, CHAD also – looks at legal/financing barriers Ms Jiaxin FENG, National Institute of Parasitic Diseases, China		
14766 WildHealthNet: A One Health approach to sustainable wildlife health surveillance Mrs Sarah OLSON, Wildlife Conservation Society, United States of America		
Q & A		
CLOSING REMARKS Dr Larry MADOFF, Massachusetts Department of Public Health, United States of America		

Policy, Environment and Biosecurity (PEB)	Room (N)	08 November 2022
ABSTRACT SESSION: Globalisation and Human Drivers of Disease in a Rapidly Changing World II Session Chairs / Moderators: Dr Siddhi ARYAL , Vital Strategies, Singapore		14:00 - 16:00 SGT
OPENING REMARKS Dr Siddhi ARYAL , Vital Strategies, Singapore		
ABSTRACT PRESENTATION LEGAL RESPONSES TO ONE HEALTH AND HEALTH INEQUALITIES 15003 Assessment of integrated health of human, animal and environment: a holistic and stratified analysis based on global One Health index Mr Zhaoyu GUO , National Institute of Parasitic Diseases, China		
15361 Understanding illegal wild meat markets and associated health risks in target EU countries - AUS Dr Anne-Lis CHABER , University of Adelaide, Australia		
14671 Zoonotic emerging infectious disease presence in conflict zones and the preparedness of humanitarian actions – conflict as a driver of zoonotic spill over Dr Tristan LEAROYD , Emergent Bio-solutions, United Kingdom		
15172 Equitable Access to Vaccines: The Role of Intellectual Property Licensing and Technology Transfer Agreements Dr Ayelet BERMAN , NUS Singapore , World Health Organization		
15099 Strengthening the International Health Regulations through a One Health Approach Ms Katherine GINSBACH , O'Neill Institute for National and Global Health, United States of America		
15210 Global and regional governance of One Health and implications for Global Health Security Dr Osman DAR , UK Health Security Agency, United Kingdom		
Q & A		
CLOSING REMARKS Dr Siddhi ARYAL , Vital Strategies, Singapore		
Impact on and Innovations in Clinical Practice (IICP)	Room (D + C)	08 November 2022
ABSTRACT SESSION: MultiDrug Resistant Organisms (MDRO) - the Rightful Roles, Responsibilities and Interests of the Non-ID physicians Session Chairs / Moderators: Dr Vipat KURUCHITTHAM , Southeast Asia One Health University Network (SEAOHUN), Thailand A/Prof Limin WIJAYA , Singapore General Hospital, Singapore		11:00 - 13:00 SGT
PRESENTATION A/Prof Hsu Li YANG , Vice Dean of Global Health and Programme Leader of Infectious Diseases, NUS Saw Swee Hock School of Public Health		
Prof Latiffah HASSAN , Professor, Veterinary Laboratory Diagnostics, Universiti Putra Malaysia, Malaysia		
Prof Karin THURSKY , Director, National Centre for Antimicrobial Stewardship, University of Melbourne, Australia		
Prof Vernon LEE , Senior Director, Communicable Diseases Division, Ministry of Health Singapore		
Dr Pham Duc Phuc , One Health Expert, Hanoi University of Public Health, Vietnam		
PANEL DISCUSSION + Q & A		
ABSTRACT PRESENTATION 15314 Machine Learning to Guide Antibiotic Use in Suspected Bacteria Pneumonia: Proof of Concept Ms Sarah TANG , Singapore General Hospital, Singapore		

Impact on and Innovations in Clinical Practice (IICP)	Room (D + C)	08 November 2022
ABSTRACT SESSION: MultiDrug Resistant Organisms (MDRO) - the Rightful Roles, Responsibilities and Interests of the Non-ID physicians Session Chairs / Moderators: Dr Vipat KURUCHITTHAM, Southeast Asia One Health University Network (SEAOHUN), Thailand A/PROF LIMIN WIJAYA, SINGAPORE GENERAL HOSPITAL, SINGAPORE		11:00 - 13:00 SGT
14662 U.S. Food and Drug Administration (FDA) and U.S. Department of Agriculture (USDA) Integrated Antimicrobial Resistance Data Dashboards from Companion Animals Dr Olgica CERIC (Virtual), US Food and Drug Administration, United States of America		
14943 Scale-up of Infection Prevention and Control Capacity for Public Health Emergency Response through Virtual Learning Mr Samuel ALABI, Pro-Health International, Nigeria		
Impact on and Innovations in Clinical Practice (IICP)	Room (D + C)	08 November 2022
PANEL DISCUSSION: Ethics of Vaccination and Public's Autonomy Session Chairs / Moderators: Prof Walter LEE, Duke Cancer Institute, United States of America A/PROF ANANTHAM DEVANAND, SingHealth Duke-NUS, Lung Centre, Singapore		14:00 - 15:30 SGT
A/Prof Kelvin Bryan Tan Director, Future System Division, InfoComm, Technology & Data Group, Ministry of Health Singapore		
Prof Michael TEE, Professor and University Scientist, Department of Physiology, University of the Philippines Manila		
Asst Prof Voo Teck CHUAN , Assistant Professor, Centre for Biomedical Ethics, Yong Loo Lin School of Medicine, National University of Singapore		
PANEL DISCUSSION AND Q & A		
Evening Panel	Plenary Room	08 November 2022
Policy, Environment and Biosecurity (PEB)		16:30 - 18:00 SGT
PANEL DISCUSSION: Global Financing and the One Health Agenda Session Chair / Moderator: Dr Franck BERTHE, World Bank, United States of America		
OPENING REMARKS Dr Franck BERTHE, World Bank, United States of America		
Mr Martien van NIEUWKOOP, Agriculture and Food Global Practice, World Bank		
Dr Catherine MACHALABA, EcoHealth Alliance, United States of America		
PANEL DISCUSSION Dr Andrew Clements, USAID Dr Francette Geraghty-Dusan, Centre for Health Security, Australia Dr Najibullah Habib, Asian Development Bank Mr Thiru Ma. Subramanian, Minister for Health and Family Welfare, Tamil Nadu, India Dr Keheliya Rambukwella, Minister for Health, Sri Lanka		
CLOSING REMARKS Dr Franck BERTHE, World Bank, United States of America		

KEYNOTE PROGRAMME		Plenary Room	09 November 2022
KEYNOTES			8:30 - 10:30 SGT
8:30	Preparing for future outbreaks: key findings and recommendations based on COVID-19 response Dr Anders NORDSTRÖM, Ministry for Foreign Affairs, Sweden		
9:00	Syndemic Interactions: Social Determinants of One Health Outcomes Prof Chris BEYRER, Duke Global Health Institute, United States of America		
9:30	Addressing Global Crisis: Tackling shared drivers of EIDs and biodiversity loss Mr David COOPER (Virtual), United Nations Convention on Biological Diversity		
10:00	What does the future hold for access to Diagnostics, Therapeutics and Vaccines in LMICs Dr Seth BERKLEY (Virtual), Gavi, The Vaccine Alliance Dr Krishna UDAYAKUMAR (Virtual), Duke Global Health Innovation Centre		
One Health Science (OHS)		Plenary Room	09 November 2022
ABSTRACT SESSION: Vaccines and Therapeutics for emerging infections			11:00 - 13:00 SGT
Session Chair / Moderator: Prof Linfa WANG, Duke-NUS Medical School, Singapore			
OPENING REMARKS Prof Linfa WANG, Duke-NUS Medical School, Singapore			
Dr Ranna EARDLEY-PATEL, Coalition for Epidemic Preparedness Innovations (CEPI) Q & A			
ABSTRACT PRESENTATION			
14768	Vaccine equity in covid-19: a meta-narrative review Ms Julia BOROWICZ, Imperial Collage London, United Kingdom Ms Zheting ZHANG, Lee Kong Chian School of Medicine, Singapore Q & A		
15191	Covid 19 vaccine hesitancy in Africa: policy and strategy issues Dr Polydor Ngoy MUTOMBO, World Bank, Australia Q & A		
15226	Economic impact of Rabies in Bangladesh through a One Health approach Mrs Jinnat FERDOUS, The University of Queensland, Australia Q & A		
14660	Use of smallpox and monkeypox vaccine MVA for post-exposure prophylaxis: a review Dr Florian LIENERT, Bavarian Nordic, Switzerland Q & A		
14699	Third mRNA COVID-19 vaccine dose induces high NAb levels in older people and those with diabetes and chronic kidney disease Dr Hazim GHANI, Universiti Brunei Darussalam, Brunei Q & A		
14992	A new class of transmission-enhancing compounds: Lipids from mosquito saliva increase arbovirus infection at the bite site Dr Hacène MEDKOUR, Institute for Research and Development, France Q & A		
CLOSING REMARKS Prof Linfa WANG, Duke-NUS Medical School, Singapore			

One Health Science (OHS)	Plenary Room	09 November 2022
<p>ABSTRACT SESSION: Environmental Surveillance</p> <p>Session Chair / Moderator: Dr Supriya KUMAR, Bill and Melinda Gates Foundation, United States of America Prof Gavin SMITH, Duke-NUS Medical School, Singapore</p>		<p>14:00 - 16:00 SGT</p>
<p>OPENING REMARKS Dr Supriya KUMAR, Bill and Melinda Gates Foundation, United States of America Prof Gavin SMITH, Duke-NUS Medical School, Singapore</p>		
<p>ABSTRACT PRESENTATION 15341 Environmental sampling and viral metagenomics: a tool to expand and enhance genomic surveillance at high-risk human-animal interfaces? Dr Jurre SIEGERS, Institut Pasteur Cambodia, Cambodia Q & A</p>		
<p>15293 “Sink” Surveillance – longitudinal environmental monitoring for avian influenza viruses in urban live bird markets in Bangladesh, 2016-2020 Dr Eric BRUM, Food and Agriculture Organisation of United Nations, Bangladesh Q & A</p>		
<p>15367 Sampling solutions and risk-based prioritisation for wastewater surveillance of SARS-CoV-2 Mr Martin TAY, National Environment Agency, Singapore Q & A</p>		
<p>14732 Wastewater-based epidemiology surveillance as an early warning system for SARS-COV-2 Indonesia Dr Vicka OKTARIA, Universitas Gad, Indonesia Q & A</p>		
<p>15331 Towards wastewater surveillance of arbovirus outbreaks Prof Janelle THOMPSON, Nanyang Technological University, Singapore Q & A</p>		
<p>15315 Cumulative evidence supports wastewater-based COVID-19 pandemic surveillance in a middle-income African country Dr Chinwe IWU-JAJA, National Institute for Communicable Diseases, South Africa Q & A</p>		
<p>CLOSING REMARKS Dr Supriya KUMAR, Bill and Melinda Gates Foundation, United States of America Prof Gavin SMITH, Duke-NUS Medical School, Singapore</p>		
Policy, Environment and Biosecurity (PEB)	Room (O)	09 November 2022
<p>ABSTRACT SESSION: Environment Change and Health : Public and Private Policy and Practice</p> <p>Session Chair / Moderator: Dr Katinka DE BALOGH, FAO, Italy</p>		<p>11:00 - 13:00 SGT (Session 1)</p>
<p>OPENING REMARKS Dr Katinka DE BALOGH, FAO, Italy</p>		
<p>ABSTRACT PRESENTATION 14915 Implementing One Health policies through public-private partnerships. A FAO Guidebook for livestock decision-makers Dr Damian Tago PACHECO, Food and Agriculture Organization, Italy</p>		
<p>14933 Public-private co-creation of One Health practices: A pilot initiative in the Uganda poultry sector Dr Gerald NIZEYIMANA, Food and Agriculture Organisation, Uganda</p>		
<p>15133 Indigenous One Health: aligning theory and reshaping praxis Dr Jessica HERNANDEZ, University of Washington, United States of America</p>		

Policy, Environment and Biosecurity (PEB)	Room (O)	09 November 2022
ABSTRACT SESSION: Environment Change and Health : Public and Private Policy and Practice Session Chair / Moderator: Dr Katinka DE BALOGH, FAO, Italy		11:00 - 13:00 SGT (Session 1)
14839	Automating a national communicable disease surveillance system in Brunei Darussalam: key steps and challenges Dr Mohammad ALIKHAN, EVYD Technology, Brunei	
Q & A		
15057	Exchange and Coordination: Deficits of the Global One Health Movement Dr Cheryl STROUD, One Health Commission	
14872	A business perspective on One Health Lessons from the Egypt poultry sector Dr Amira ABDELNABI; Ugo PICACIAMARA, Food and Agriculture Organization, Egypt, Arab Rep	
15025	Electronic Surveillance Information Systems in Human, Animal and Environment Sectors to Support Integrated Disease Reporting: A One Health Policy Brief Ms Maureen NABATANZI, Infectious Diseases Institute, College of Health, Uganda	
15207	Epistemology of one health Dr Kristina PELIKAN, Swiss Tropical and Public Health Institute, Switzerland	
Q & A		
CLOSING REMARKS Dr Katinka DE BALOGH, FAO, Italy		
Policy, Environment and Biosecurity (PEB)	Room (O)	09 November 2022
ABSTRACT SESSION: Environment Change and Health : Strengthening Community Capacity Session Chair / Moderator: Dr Raina PLOWRIGHT, Cornell University, United States of America		14:00 - 16:00 SGT (Session 2)
OPENING REMARKS Dr Raina PLOWRIGHT, Cornell University, United States of America Q & A		
ABSTRACT PRESENTATION		
14816	Next Generation One Health Philippines: Building Domestic Capacity for Transdisciplinary and Translational Research to Prevent The Next Pandemic Dr Renzo GUINTO, St. Luke's Medical Center College of Medicines, Philippines	
14817	Continuous Advocacy as A Tool For Enhancing The Implementation of The National Action Plan For Health Security in Nigeria Mr Oguntola IBUKUN, Nigeria Health Watch, Nigeria	
15139	Learnings From One Health Operationalizations In West Africa And Switzerland Dr Kathrin HEITZ-TOKPA, Centre Suisse de Recherches Scientifiques en Côte, CÃ´te d'Ivoire	
15419	Mad dogs and sick monkeys: A co-production approach to understanding zoonoses in India Dr Abi Tamim VANAK, Ashoka Trust for Research in Ecology and the Environment, India	
15234	The UAF One Health Master's Degree: Operationalizing One Health in The Circumpolar North Ms Hannah ROBINSON, UAF Center for One Health Registration, United States	
15374	Bridging the Gap and Catalyzing Environmental Involvement for One Health: The Afrohun Kenya Experience Mr Samuel WANJOHI, Africa One Health University Network, Kenya	

Policy, Environment and Biosecurity (PEB)	Room (O)	09 November 2022
ABSTRACT SESSION: Environment Change and Health : Strengthening Community Capacity		14:00 - 16:00 SGT (Session 2)
Session Chair / Moderator: Dr Raina PLOWRIGHT , Cornell University, United States of America		
14855	Operationalization of Community-Based One Health Surveillance-Response Ethiopia: The Case of Adadle District Dr Yahya OSMAN , Jigjiga university, Ethiopia	
15307	Strengthen Local Governance for Preventing and Mitigating Global Crises Dr Sergio GUERRERO-SANCHEZ , City University of Hong Kong, Hong Kong	
CLOSING REMARKS Dr Raina PLOWRIGHT , Cornell University, United States of America Q & A		
Antimicrobial Resistance (AMR)	Room (D)	09 November 2022
ABSTRACT SESSION: AMR Interaction and Transmission Drivers Between Reservoirs in Humans, Animals, Food and Environmental I		11:00 - 13:00 SGT
Session Chair / Moderator: A/Prof Hein Min TUN , JC School of Public Health and Primary Care, Faculty of Medicine, The Chinese University of Hong Kong		
TOPIC PRESENTATIONS		
Prof Frank M AARESTRUP , Head of Research Group for Genomic Epidemiology, National Food Institute, Technical University of Denmark		
Dr Sylvain BRISSE (Virtual) , Director, Biodiversity and Epidemiology of Bacterial Pathogens unit, Institut Pasteur		
Prof ZHANG Tong (Virtual) , Chair of Environmental Engineering Department, Hong Kong University		
Dr Errol STRAIN , Senior Advisor for Science Informatics FDA Center for Veterinary Medicine		
Dr Amy PRUDEN (Virtual) , Professor in the Department of Civil and Environmental Engineering and Associate Dean and Director of Interdisciplinary Graduate Education, Virginia Tech		
ABSTRACT PRESENTATION		
15067	Trends of human and veterinary antimicrobial consumption in Fiji from a 'One Health' perspective Dr Royford MAGIRI , Veterinary Science, Fiji National University, Fiji	
15017	The Saint John's Island Resistome project: a tractable microcosm of antibiotic resistance transmission across One Health domains in Singapore A/Prof Yann Felix BOUCHER , Saw Swee Hock School of Public Health National University of Singapore, Singapore	
14920	A collaboration effort on genomic surveillance of AMR in Jakarta: A One Health study from conceptualisation to implementation Dr Nelly PUSPANDARI , Centre for Health Resilience and Health Resource Policy, Health Policy Agency Indonesia Ministry of Health, Indonesia	
14785	Fluidity of Antimicrobial Resistance between Humans, Food Animals and Water and Soil Environments in South Africa: A Genomic Illustration Prof Sabiha ESSACK , Antimicrobial Research Unit, University of KwaZulu-Natal, South Africa	

Antimicrobial Resistance (AMR)	Room (C)	09 November 2022
ABSTRACT SESSION: AMR Interaction and Transmission Drivers Between Reservoirs in Humans, Animals, Food and Environmental II		11:00 - 13:00 SGT
Session Chair / Moderator: Dr Vincent Junxiong PANG, SingHealth Duke-NUS Global Health Institute, Singapore		
TOPIC PRESENTATIONS		
Prof Frank M AARESTRUP, Head of Research Group for Genomic Epidemiology, National Food Institute, Technical University of Denmark		
Dr Sylvain BRISSE (Virtual), Director, Biodiversity and Epidemiology of Bacterial Pathogens unit, Institut Pasteur		
Prof ZHANG Tong (Virtual), Chair of Environmental Engineering Department, Hong Kong University		
Dr Errol STRAIN, Senior Advisor for Science Informatics FDA Center for Veterinary Medicine		
Dr Amy PRUDEN (Virtual), Professor in the Department of Civil and Environmental Engineering and Associate Dean and Director of Interdisciplinary Graduate Education, Virginia Tech		
ABSTRACT PRESENTATION		
15211		
Rise of carbapenem resistant <i>Klebsiella pneumoniae</i> in young infants in Bangladesh: an 18-year genomic epidemiological study (2004-2021) Dr Yogesh HOODA, Biochemistry and Molecular Biology, Child Health Research Foundation, Bangladesh		
14861		
Benefits of political economy analyses on antimicrobial resistance: cross-examination of PEA impacts in Bangladesh, Pakistan and Indonesia Ms Nicole DECASTRO, DAI Global Health, Washington, DC, United States of America		
14988		
Understanding networks in rural Cambodian farming communities and how they influence antibiotic use Dr Jane LIM, Saw Swee Hock School of Public Health, National University of Singapore, Singapore		
15305		
Antimicrobial use patterns and resistance among peri Urban poultry farmers in Wakiso and rural farmers in Soroti, Uganda Dr Irene MBADTIDDE , Animal and Human Health, International Livestock Research Institute, Uganda		
Antimicrobial Resistance (AMR)	Room (D + C)	09 November 2022
ABSTRACT SESSION: Science-based AMR Governance and Policy Implementation		14:00 - 16:00 SGT
Session Chair / Moderator: A/Prof Hsu Li YANG, Vice Dean of Global Health and Programme Leader of Infectious Diseases, NUS Saw Swee Hock School of Public Health, National University of Singapore		
TOPIC PRESENTATIONS		
Dr Robert Skov, Scientific Director, International Center for Antimicrobial Resistance Solutions (ICARS)		
Dr Javier Yugueros MARCOS (Virtual), Antimicrobial Resistance & Veterinary Products Department Head, World Organisation for Animal Health		
Dr Jomana MUSMAR, Senior Public Health Advisor and Executive Director Presidential Advisory Council on Combating Antibiotic Resistant Bacteria (PACCARB)		
Dr Senjuti SAHA , Director & Scientist, Child Health Research Foundation		
PANEL DISCUSSION AND Q&A		

Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (M)	09 November 2022
ABSTRACT SESSION: Animal and Human Vaccines and Other Preventive Interventions for Pandemic Preparedness I Session Chair / Moderator: Prof LEO Yee-Sin , National Centre for Infectious Diseases, Singapore		11:00 - 13:00 SGT
OPENING REMARKS Prof LEO Yee-Sin , National Centre for Infectious Diseases, Singapore		
Preventing pandemics, improving food security: sustainable control of vaccine preventable animal disease in resource-limited settings Prof Robyn ALDERS , Honorary Professor, Australian National University Q & A		
A Prototype Pathogen Approach to Pandemic Preparedness Dr Barney GRAHAM (Virtual) , Deputy Director, Vaccine Research Center, Chief, Viral Pathogenesis Laboratory and Translational Science Core, Vaccine Research Center Q & A		
Ms Anita SURESH , Deputy Director, FIND Q & A		
ABSTRACT PRESENTATION 15213 Economics Of Taenia Solium Control In An Endemic Area Reveals A Need For A Paradigm Shift Towards One Health Dr Mwemezi KABULULU , Tanzania Livestock Research Institute, United Republic of Tanzania		
14874 Medilabsecure, One Health Network For The Prevention Of Vector-borne Diseases, The Sahel Experience Dr Gulian MIKATY , Institut Pasteur, France		
14739 Seroprevalence of COVID-19 and vaccine immunogenicity in healthcare workers in Hong Kong: a longitudinal cohort study Dr Wey Wey LIM , The University of Hong Kong, Hong Kong		
14900 Legal Barriers To The “one Health” Approach In India: Placing One Health Approach At The Heart Of Covid-19 Recovery Mr Kashish ANEJA , O’Neill Institute for National and Global Health, India		
15224 Understanding Linkages Between National One Health Platforms and Academia to Improve the One Health Workforce in Sub-Saharan Africa Ms Alice STEVENSON , EcoHealth Alliance, United States of America		
Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (N)	09 November 2022
ABSTRACT SESSION: Animal and Human Vaccines and Other Preventive Interventions for Pandemic Preparedness II Session Chair / Moderator: Prof Marietjie VENTER , University of Pretoria, South Africa		11:00 - 13:00 SGT
OPENING REMARKS Prof LEO Yee-Sin , National Centre for Infectious Diseases, Singapore		
Preventing pandemics, improving food security: sustainable control of vaccine preventable animal disease in resource-limited settings Prof Robyn ALDERS , Honorary Professor, Australian National University Q & A		
A Prototype Pathogen Approach to Pandemic Preparedness Dr Barney GRAHAM (Virtual) , Deputy Director, Vaccine Research Center, Chief, Viral Pathogenesis Laboratory and Translational Science Core, Vaccine Research Center Q & A		
Prof Azra Ghani , Chair in Infectious Disease Epidemiology, Imperial College London, United Kingdom		
Ms Anita SURESH , Deputy Director, FIND Q & A		

Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (N)	09 November 2022
ABSTRACT SESSION:		11:00 - 13:00 SGT
Animal and Human Vaccines and Other Preventive Interventions for Pandemic Preparedness II		
Session Chair / Moderator: Prof Marietjie VENTER , University of Pretoria, South Africa		
ABSTRACT PRESENTATION		
14868	Incidence Of Pertussis Among Adults Aged ≥50 Years In Australia Dr JING Chen , GSK, Singapore	
15174	Sustained One Health practices for long-term control of Human African Trypanosomiasis infections in Uganda through economically viable strategies Prof Susan WELBURN , The University of Edinburgh & Zhejiang University	
15363	Electronic-based Integrated Epidemiological Surveillance In Madagascar: A Challenge For The Implementation Of The One Health Platform Dr Mampianina RANDRIAMBAHOAKA , Unité de Coordination des Projets, Madagascar (Madagasikara)	
14751	COMBAT-AMR: Evidence-based cross-sectoral framework to assess antimicrobial resistance situation, needs and capacity Dr Angeline FERDINAND , University of Melbourne, Australia	
14731	A Progressive Management Pathway To Support Effective Integration Into National Action Plans For Antimicrobial Resistance Of Food And Agriculture Sectors Dr Jieun KIM , Food and Agriculture Organization of the United Nations	
Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (M+N)	09 November 2022
ABSTRACT SESSION:		14:00 - 16:00 SGT
One Health Integrated Surveillance: Novel Data Types and Prototype		
Session Chair / Moderator: Prof David HEYMANN , Professor of Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine, United Kingdom		
A/Prof Sebastian MAURER-STROH , Executive Director, Biomolecular Function Discovery, A*STAR Bioinformatics Institute		
Prof Marion KOOPMANS (Virtual) , Professor, Virology, Erasmus University Medical Center		
Dr Mark SMOLINSKI , Director, Ending Pandemics		
Prof Tong ZHANG (Virtual) , Chair of Environmental Engineering Department, Hong Kong University		
Q & A		
Evening Panel	Plenary Room	09 November 2022
Pandemic Preparedness and Health Systems Resilience (PPHSR)		16:30 - 18:00 SGT
PANEL DISCUSSION:		
National Sovereignty and Global Solidarity for Health Security		
Session Chair / Moderator: Prof David HEYMANN , Professor of Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine, United Kingdom		
Prof Kelley Lee (Virtual) , Canada Research Chair Tier I, Simon Fraser University		
Dr Osman DAR , One Health Project Director, Chatham House		
Dr Swee Keng KHOR , Associate Fellow, Global Health Programme, Chatham House		
Dr Daniel BAUSCH , Senior Director, Emerging Threats and Global Health Security, FIND		
Q & A		

KEYNOTE PROGRAMME		Plenary Room	10 November 2022
KEYNOTE			8:30 - 10:00 SGT
8:30	International Financing for One Health and Pandemic Preparedness Dr Manuela FERRO (Virtual) , World Bank, East Asia and Pacific Region Session Chair: Mr Martien van NIEUWKOOP , Agriculture and Food Global Practice, World Bank		
9:00	Pandemic Preparedness: the role of nongovernmental agencies Dr Chris ELIAS (Virtual) , Bill & Melinda Gates Foundation		
9:30	Latest update on the growing threat of AMR Sir Jeremy FARRAR (Virtual) , Wellcome		
10:00	Harnessing Artificial Intelligence for Rapid Drug Discovery Prof Dean HO , National University of Singapore, Singapore Session Chair: A/Prof Lita CHEW , SingHealth, Singapore		
One Health Science (OHS)		Plenary Room	10 November 2022
PRESENTATION SESSION: Science Meets Policy			11:00 - 13:00 SGT
Session Chair / Moderator: Dr Casey Barton BEHRAVESH , Centre for Disease Control and Prevention, United States of America			
OPENING REMARKS Dr Casey Barton BEHRAVESH , Centre for Disease Control and Prevention, United States of America			
Dr Maria Van KERKHOVE , World Health Organization			
Dr Kachen WONGSATHAPORNCHAI , Food and Agriculture Organization			
Dr Misheck MULUMBA , Onderstepoort Veterinary Research Institute, South Africa			
Dr Marc-Alain WIDDOWSON , Institute of Tropical Medicine Antwerp, Belgium			
Mr Gerrit VILJOEN (Virtual) , International Atomic Energy Agency, Vienna			
Group Discussion – mix of set panel questions prepared in advance + audience questions + panellist final brief remarks			
CLOSING REMARKS Dr Casey Barton BEHRAVESH Centre for Disease Control and Prevention, United States of America			
Policy, Environment and Biosecurity (PEB)		Room (M + N)	10 November 2022
PANEL DISCUSSION: Biosecurity			11:00 - 13:00 SGT
Session Chair / Moderator: Mr Jason GALE , Bloomberg News, Australia			
OPENING REMARKS Mr Jason Gale , Bloomberg News, Australia			
Dr Diane DiEuliis , National Defence University, United States of America Q & A			
Moderator asked panel discussants to come up on stage for session 2			
PANEL DISCUSSION: Dr Filippa Lentzos (Virtual) , Kings College London, United Kingdom Dr CHONG Chee Kheong , ASEAN Health Security Dr Kazunobu KOJIMA , World Health Organization A/Prof Jeffery CUTTER , Ministry of Health, Singapore Dr Thomas INGLESBY(Virtual) , John Hopkins Center for Health Security, United States of America			
Q & A			
CLOSING REMARKS Mr Jason Gale , Bloomberg News, Australia			

One Health Science (OHS)	Plenary room	10 November 2022
PRESENTATION SESSION: Understanding the Social Context of One Health Session Chair / Moderator: Dr Katinka De BALOGH, FAO, Italy		14:00 - 16:00 SGT
OPENING REMARKS Dr Katinka De BALOGH, FAO, Italy		
Mr Jason GALE, Bloomberg, Australia Q & A		
Prof Delia GRACE, International Livestock Research Institute, Kenya Q & A		
Mr David QUAMMEN, Science journalist and author, United States of America Q & A		
Introduction of additional panellists <ul style="list-style-type: none"> · Prof. Robyn ALDERS, University of Sydney, Australia · Mr. Sitaramachandra MACHIRAJU, World Bank, Singapore · Dr. Madhur DHINGRA, FAO, Italy 		
Discussion between Panellists Q & A		
CLOSING REMARKS Dr Katinka De BALOGH, FAO, Italy		

Policy, Environment and Biosecurity (PEB)	Room M	10 November 2022
ABSTRACT SESSION: Science of Climate and Ecological Change of One Health I Session Chair / Moderator: Dr Aaron JENKINS , Edith Cowan University, Australia		14:00 - 16:00 SGT
Room M		
OPENING REMARKS Dr Aaron JENKINS , Edith Cowan University, Australia		
Conservation and Restoration Ecology ABSTRACT PRESENTATION 15082 The Watershed Interventions for Systems Health (WISH Fiji) project - transforming place-based management within watersheds in Fiji Dr Aaron JENKINS , University of Sydney, Edith Cowan University, Australia		
15237A One Health Approach to Protected and Conserved Areas in Liberia Mr Urias GOLL , EcoHealth Alliance, Liberia		
15238 Revitalization of the river and adjacent ecosystems affected by the collapse of a tailings dam in brazil: a one-health perspective Mr Luan Ritchelle dos ANJOS , Fundação Renova e Organização Cooperativa de Agroec, Brazil (Brasil)		
Q & A		
Climate Change and The Socio-ecological ABSTRACT PRESENTATION 14654 How relevant is 'greenhouse gases' global warming climate change to one health Prof Meer Ahmad Meera , Meer Ahmad Health Consultancy, Malaysia		
14896 A One Health perspective on brucellosis in East Africa Dr Joachim OTTE , Food and Agriculture Organization, Italy		
14976 Unique Challenges for Indigenous and Northern Communities During COVID 19: Applying Lessons Learned to Climate Change Ms Katherine GINSBACH , O'Neill Institute for National and Global Health, United States		
15000 Climate change and tick-borne diseases: a one health approach in Alberta, British Columbia And Saskatchewan, Canada Dr Erin FRASER , British Columbia Centre for Disease Control, Canada		
15138 Health Professionals' and Pastoralists' Knowledge, Attitude, and Practice about Antimicrobial Resistance and Climate Change, Somali Region, Eastern Ethiopia: Qualitative Study. Mr Abdifatah Muktar Muhammed , Swiss Tropical and Public health Institute, Ethiopia		
Q & A		
CLOSING REMARKS Dr Aaron JENKINS , Edith Cowan University, Australia		

Policy, Environment and Biosecurity (PEB)	Room N	10 November 2022
SESSION: Science of climate and ecological change of one health (Parallel Sessions)		14:00 - 16:00 SGT
Session Chair / Moderator: Dr Judith WONG , National Environment Agency, Singapore		
Room N		
OPENING REMARKS Dr Judith WONG , National Environment Agency, Singapore		
Rabies and Dogs ABSTRACT PRESENTATION 14767 Integration of Rabies Management Information System (RabMIS) through One-Health Approach into the Rabies Prevention and Control Program of Agusan del Norte, Philippines: An Evaluation Dr Joseph Rizalyn DARGANTES , Provincial Government-Agusan del Norte, Philippines		
15010 Development, feasibility and potential effectiveness of community-based continuous mass dog vaccination delivery strategies: lessons for optimization and replication Mr Christian Tetteh DUAMOR , Nelson Mandela African Institute of Science and Technology, Tanzania		
14663 Implementing a One Health Approach to Rabies Surveillance: Lessons from Integrated Bite Case Management Ms Catherine SWEDBERG , University of Glasgow, United Kingdom		
15364 Rabies Prevention and Control in South-East Asia – application of One Health approach Dr Ronello ABILA , World Organisation for Animal Health, Thailand		
Vector Ecology ABSTRACT PRESENTATION 14714 Mapping the habitat suitability of the Asian longhorned tick in North America under current and future climate scenarios Prof Susan CORK , The University of Calgary Canada		
15401 Ecological Changes and Zoonotic Malaria Transmission: A One Health Lens on Plasmodium knowlesi Dr Novra SANDI , Eijkman-Oxford Clinical Research Unit (EOCRU), Indonesia		
15173 Ecological foundations of Rift Valley Fever Mr Max KORIR , ILRI, Kenya		
15239 Exploring infectious organisms associated with wild meat Dr Georgia MOLONEY , The University of Adelaide, Australia		
Q & A		
CLOSING REMARKS Dr Judith WONG , National Environment Agency, Singapore		

Impact on and Innovations in Clinical Practice (IICP)	Room (D + C)	10 November 2022
PANEL DISCUSSION: The Boon and Bane of Nutrition on Health		11:00 - 13:00 SGT
Session Chairs / Moderators: Asst Prof CHONG Foong-Fong Mary, NUS Saw Swee Hock School of Public Health, Singapore Asst Prof Courtney Davis, KK Women's and Children's Hospital, Singapore		
Prof LE Thi Huong Dean, School of Preventive Medicine and Public Health, Hanoi Medical University, Vietnam		
Dr Nina DOMINGO (Virtual) Postdoctoral Associate, Yale Center on Climate Change and Health, Yale University, USA		
A/Prof Cecilia ACUIN (Virtual) Associate Professor, Institute of Human Nutrition and Food, University of the Philippines Manila		
Prof TEH Bin Tean (Virtual) Director, SingHealth Duke-NUS Institute of Biodiversity Medicine, Singapore		
PANEL DISCUSSION		
Q&A CLOSING & WRAP UP		
Impact on and Innovations in Clinical Practice (IICP)	Room (D + C)	10 November 2022
PANEL DISCUSSION: Management of Non-Communicable Diseases (NCD) - Pivoting During a Pandemic and Beyond		14:00 - 16:00 SGT
Session Chairs / Moderators: Prof Zainab SAMAD, Aga Khan University Hospital, Pakistan Dr Gan Wee Hoe, SingHealth Community Hospitals, Singapore		
A/Prof Ayeesha KAMAL (Virtual) Associate Professor, Neurology, Stroke Program, Aga Khan University, Pakistan		
A/Prof Jeremy LIM Director, Leadership Institute for Global Health Transformation (LIGHT), NUS Saw Swee Hock School of Public Health		
Dr Rolando Enrique D DOMINGO (Virtual) WHO Coordinator for NCD Management in the Western Pacific Region, WHO Western Pacific Regional Office		
A/Prof Daniel TING Consultant, Surgical Retina Department, Singapore National Eye Centre (SNEC) and Head of Artificial Intelligence and Digital Innovation, Singapore Eye Research Institute (SERI)		
PANEL DISCUSSION + Q&A		
ABSTRACT PRESENTATION		
14845 Stroke Care During COVID Needs More Than a Stroke Teleclinic! Dr Deidre De SILVA, Singapore General Hospital, Singapore		
14975 The One Health Clinic: Leveraging the Human-Animal Bond for Care Access in the Unhoused Population Ms Erin TABOR (Virtual), University of Washington/Center for One Health Research, USA		
15267 Multisectoral and Community Engagement in Primary Health Care Initiative to Combating COVID-19 Pandemic: Lesson-Learnt from Mobile Health Stations in Vietnam Mr Giang Nguyen HOANG, Health Strategy and Policy Institute, Vietnam Ministry of Health, Vietnam		
14832 Rapid Development of a Mobile Health Application to Facilitate Remote Care for COVID-19 Patients with Non-communicable Diseases During a Pandemic Ms Joanne SZE Win Lee, SingHealth, Singapore		

Evening Panel	Plenary Room	10 November 2022
Impact on and Innovations in Clinical Practice (IICP)		16:30 - 18:00 SGT
PANEL DISCUSSION:		
The Impact of Our Environment and Microbiome on Health		
Session Chairs / Moderators:		
A/Prof Mariko KOH , Prof Mariko Koh: Singapore General Hospital, Singapore		
A/Prof Dar-Der JI , National Yang Ming Chiao Tung University, Taiwan		
A/Prof Sanjay H. Chotirmall Associate Professor and Provost's Chair in Molecular Medicine, NTU Lee Kong Chian School of Medicine, Singapore		
Prof Chun-Ying WU (Virtual) Associate Dean, National Yang Ming Chiao Tung University, Taiwan		
Dr James HASSELL (Virtual) Keller Family Secretarial Scholar, Smithsonian Institution, United States of America		
Prof Gary W. MILLER (Virtual) Professor, Environmental Health Sciences, Columbia University, United States of America		
A/Prof Fook Tim CHEW Associate Professor, Department of Biological Sciences, National University of Singapore, Singapore		
PANEL DISCUSSION AND Q&A		

PROGRAMME

DAY 5: Friday, 11 November 2022

KEYNOTE PROGRAMME	Plenary Room	11 November 2022
KEYNOTE		8:30 - 10:30 SGT
8:30	Dr Maria Van KERKHOVE , World Health Organization	
9:00	What has the world learned from COVID and what comes next? Mr Max BROOKS (Virtual) , Author/Screenwriter (World War Z), Modern War Institute at West Point	
9:30	SCIENTIFIC COMMITTEE CLOSING & AWARD CEREMONY Prof Linfa WANG , Duke-NUS Medical School Singapore Prof Ab OSTERHAUS , University of Veterinary Medicine Hanover, Germany Prof John MACKENZIE , Curtin University, Australia	

Antimicrobial Resistance (Infectious Diseases Threats in Southeast Asia)	Room (B)	08 November 2022
KEYNOTE		11:00 - 16:00 SGT
From Zoonosis to Antimicrobial Resistance		
<p>A/Prof TAN Hiang Khoon, Group Director International Collaboration Office, SingHealth & Director SingHealth Duke-NUS Global Health Institute</p> <p>Mr Stanley LEE, Senior Director, Temasek Foundation</p>		
<p>OPENING BY</p> <p>Hon Minister Ma Subramanian, Minister for Health & Family Welfare of Tamil Nadu</p>		
<p>Distribution and Prevalence of Malaria in Wild Long-Tailed Macaques of Peninsular Malaysia</p> <p>Prof LAU Yee Ling Head, Dept of Parasitology, University of Malaya, Malaysia</p>		
<p>Discovery and validation of cerebrospinal fluid biomarkers to guide clinical management of central nervous system infections and novel virus surveillance</p> <p>A/Prof TAN Le Van A/Professor, Emerging Infections, Oxford University Clinical Research Unit, Vietnam</p>		
<p>A OneHealth Approach to Addressing the Emerging Threat of Zoonotic Malaria: the ZOOMAL project</p> <p>Asst Prof Inke Nadia D LUBIS Vice Dean, Faculty of Medicine, Department of Pediatrics, Universitas Sumatera Utara, Indonesia</p>		
<p>Operationalizing Infectious Diseases Clinical Research in LMIC: Challenge & Opportunities</p> <p>Dr Mutia RAHARDJANI Head, Oxford University Clinical Research Unit Indonesia ,Indonesia</p>		
<p>Is Zoonotic Malaria Transmission a Threat to Malaria Elimination in Southeast Asia?</p> <p>Prof Indra VYTHILINGAM Professor, Parasitology, University of Malaya, Malaysia</p>		
<p>PANEL DISCUSSION:</p> <p>From Zoonosis to Antimicrobial Resistance</p> <p>Moderator:</p> <p>Prof Lisa NG, Executive Director, A*STAR ID Labs, Singapore</p> <p>Panelists:</p> <ul style="list-style-type: none"> Prof Laurent RENIA, Professor, Lee Kong Chian School of Medicine, Nanyang Technological University, A*STAR Infectious Diseases Labs, Singapore A/Prof Sanjay CHOTIRMALL, Associate Professor, Provost's Chair in Molecular Medicine, Lee Kong Chian School of Medicine, Singapore Prof LAU Yee Ling, Head, Dept of Parasitology, University of Malaya, Malaysia Dr Tan Le VAN, Wellcome Fellow & Head of Emerging Infections, OUCRU-HCMC, Vietnam Dr Mutia RAHARDJANI, Clinical Research Operations Manager, Eijkman Oxford Clinical Research Unit, Indonesia Prof Indra VYTHILINGAM, Honorary Professor, Dept of Parasitology, University of Malaya, Malaysia Dr Inke Nadia LUBIS, Vice Dean, Universitas Sumatera Utara, Indonesia 		
LUNCH BREAK		
One Health Science (OHS)		
<p>OPENING PLENARY I</p> <p>Genomic Sequencing for Public Health Surveillance</p> <p>Prof David BLAZES Deputy Director, Vaccine Development & Surveillance – Modelling and Pathogen Genomic Sequencing Bill & Melinda Gates Foundation</p>		

One Health Science (OHS)

Room (B)

08 November 2022

PANEL DISCUSSION:

Emerging lessons from the Africa Pathogen Genomics Initiative 3 years on

Session Chair / Moderator:

Dr Ruklanthi de ALWIS, Duke-NUS Center for Outbreak Preparedness, Singapore

Panelists:

- **Dr Sarah Wambui MWANGI**,
Implementation Science Expert for Pathogen Genomics, Africa Centre for Disease Control (Africa CDC)
- **Mr Edwin SHUMBA**,
AMR Program Manager, African Society for Laboratory Medicine (ASLM)
- **Dr Polydor MUTUMBO**,
Technical Advisor Health Emergency Preparedness Response (African and South Pacific), World Bank
- **Ms Vanessa MOEDER**
Sr Director, Public & Global Health, Illumina
- **Prof David BLAZES**,
Deputy Director, Vaccine Development & Surveillance, Bill & Melinda Gates Foundation

OPENING PLENARY II

Findings from a landscape assessment of the current status and bottlenecks in genomic surveillance in Asia

Prof Paul PRONYK

Duke-NUS Centre for Outbreak Preparedness, Duke-NUS Medical School, Singapore

PANEL DISCUSSION:

Country priorities for genomic surveillance in Asia

Moderator:

Ms Dhamari NAIDOO, Public Health Laboratory Scientist, WHO SEARO

Panelists:

- **Dr Aamer IKRAM (Virtual)**,
Executive Director National Institutes of Health, Pakistan
- **A/Prof Mohd Ghows Mohd AZZAM**,
Director, Malaysia Genome and Vaccine Institute (MGVI)
- **Dr Senjuti SAHA**,
Director, Child Health Research Fund, Bangladesh
- **Dr Rajesh PANDEY**,
Principal Scientist, CSIR-Institute of Genomics and Integrative Biology (CSIR-IGIB), India.
- **Dr Erik A KARLSSON**
Sr Director, Public & Global Health, Illumina
- **Dr Dra. Lucia Rizka ANDALUCIA**,
Director, General of Pharmacy and Medical Devices, Ministry of Health of Indonesia

Session End

Policy, Environment and Biosecurity (PEB)

Room (B)

09 November 2022

11:00 - 16:00 SGT

OPENING REMARKS BY

Ms WEI Yuan, EYVD Technology

KEYNOTE

The Important Role of Communication of Scientific Evidence in Managing a Pandemic or Outbreak

Prof May LWIN,

Wee Kim Wee School of Communication and Information, Nanyang Technological University, Singapore

PANEL DISCUSSION:

How Did Governments Manage Scientific Communication During the Pandemic?

Moderator:

Prof May LWIN,

Wee Kim Wee School of Communication and Information, Nanyang Technological University, Singapore

Panelists:

- **Datuk Dr CHONG Chee Keong,**
Senior Advisor to the ASEAN Mitigation of Biological Threats Program & Former Deputy Director-General of Health, Malaysia
- **Prof David LYE**
National Centre for Infectious Disease, Singapore
- **Dr Justin WONG,**
Head of Disease Control Division, Ministry of Health Brunei Darussalam

PANEL DISCUSSION:

How can we Leverage Technology and Social Listening to Improve Scientific Communications and Manage Public Health?

Moderator:

Dr Justin WONG

Head of Disease Control Division, Ministry of Health Brunei Darussalam

Panelists:

- **Dr Fathi ALIKHAN,**
EYVD Tech, Singapore
- **Dr YANG Yinping,**
Senior Scientist and Group Manager, Infectious Diseases Horizontal Technology Coordination Office & Social and Cognitive Computing Department, Institute of High Performance Computing, Singapore
- **Mr Matt PARKER,**
Director of Public Health Technology, Opendream Co., Ltd, Thailand

LUNCH BREAK

Impact on and Innovations in Clinical Practice (IICP)

How can health systems in LMICs leverage on innovations to tackle the growth in depth and breadth of their disease burden while addressing the concerns of environmental sustainability?

Tackling the Challenges of Tomorrow through Planetary Health

Dr Jemilah MAHMOOD

Executive Director, Sunway Centre for Planetary Health, Sunway University, Malaysia

Circular Healthcare

Prof TAI Lee Siang

Centre Director - DesignZ, Head of Pillar - Architecture and Sustainable Design (ASD), Programme Director - Design and Artificial Intelligence (DAI) at Singapore University of Technology and Design

PPE use for patient & HCW safety - is there an alternative?

Prof TAN Ban Hock

Senior Consultant
Infectious Disease Department, Singapore General Hospital

Impact on and Innovations in Clinical Practice (IICP)	Room (B)	09 November 2022
11:00 - 16:00 SGT		
<p>The role of AI in supporting (or derailing) the pursuit of environmental sustainability in healthcare A/Prof Daniel TING Consultant, Surgical Retina Department, Singapore National Eye Centre (SNEC) and Head of Artificial Intelligence and Digital Innovation, Singapore Eye Research Institute (SERI)</p>		
<p>Plastics in Health Care Waste: It's Public Health and Climate Impact Mr Ramon San PASCUAL Executive Director, Health Care Without Harm SE Asia, Philippines</p>		
<p>PANEL DISCUSSION: Dealing with crisis in resource constrained environments while planning for the long game Moderator: A/Prof TAN Hiang Khoon, SingHealth, Singapore A/Prof Tracy Carol AYRE, SingHealth, Singapore Panelists:</p> <ul style="list-style-type: none"> • Dr Jemilah MAHMOOD, Professor & Executive Director, Sunway Centre for Planetary Health, Malaysia • A/Prof Daniel TING, Associate Professor in Ophthalmology with Duke-NUS Medical School and Head of Artificial Intelligence and Digital Innovation, Singapore Eye Research Institute • Prof TAN Ban Hock, Snr Consultant, Infectious Disease, and Chief Quality Office, Singapore General Hospital • Prof TAI Lee Siang, Head Pilar, Architecture & sustainable Design / Program Director, Design & Artificial Intelligence; SUTD • Mr Ramon San PASCUAL, Executive Director, Healthcare without Harm SE Asia, Philippines 		
Session End		

Pandemic Preparedness and Health Systems Resilience (PPHSR)	Room (B)	10 November 2022
11:00 - 13:00 SGT		
<p>TRANSFORMATIONAL INNOVATION FOR PREPAREDNESS AND RESILIENCE</p>		
<p>OPENING REMARKS BY Ms HO Yuan Lu, Diagnostics Development Hub A*STAR, Singapore</p>		
<p>Opening Transformational Innovation for Preparedness and Resilience Prof Andy HOR Deputy Chief Executive (Research), A*STAR, Singapore</p>		
<p>The State of Health Systems Towards Resiliency and Achieving Sustainable Development Goals Prof Jaime MONTOYA Executive Director, Philippine Council for Health Research and Development, Philippines</p>		
<p>Gaps & Opportunities for transformational solutions for Pandemic Preparedness in Indonesia Prof Amin SOEBANDRIO Professor, Department of Clinical Microbiology, Universitas Indonesiam Indonesia</p>		
<p>Challenges and innovations in dealing with COVID-19 Pandemic in Singapore Dr Benedict YAN Head of Molecular Diagnosis, National University Hospital</p>		
<p>Genomics Thailand – Genomics Programme for Emerging Infections Diseases Prof Prasit PALITTAPONGARNPIM MD, Microbiology, Mahidol University, Thailand</p>		
<p>Epitope Discovery Platform for Rapid Vaccine Design Prof Lisa NG Executive Director, A*STAR ID Labs, Singapore</p>		
<p>Impact and Promise of Advance Materials for the Future of Health Care Resilience Prof LOH Xian Jun Executive Director, IMRE, A*STAR, Singapore</p>		
<p>Q & A</p>		
<p>CLOSING REMARKS BY A/Prof TAN Hiang Khoon, SingHealth, Singapore</p>		
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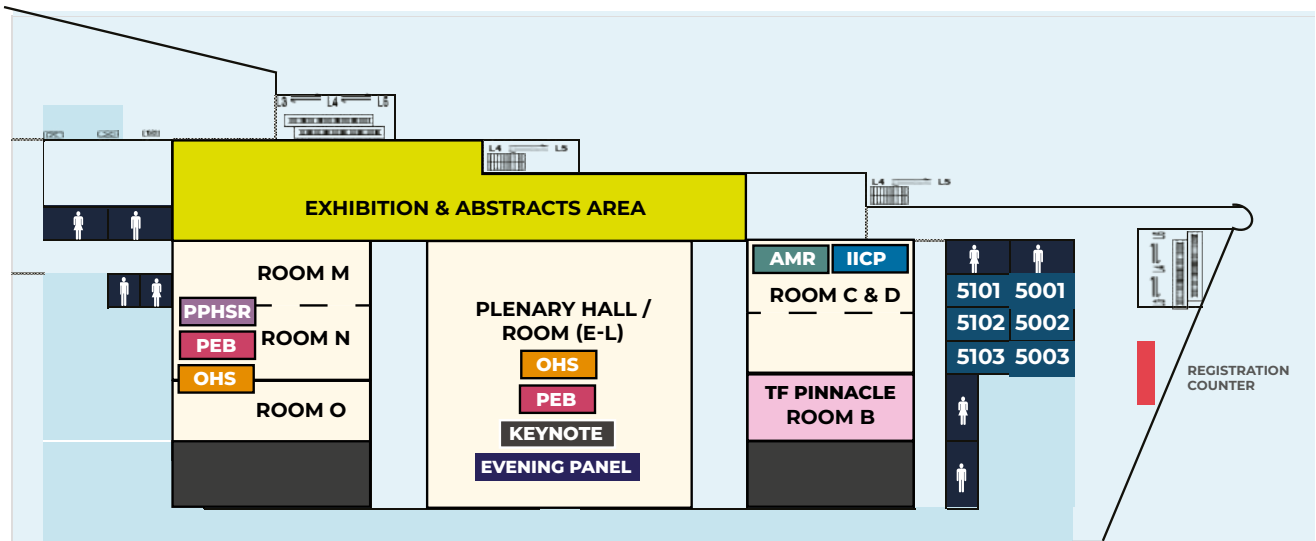


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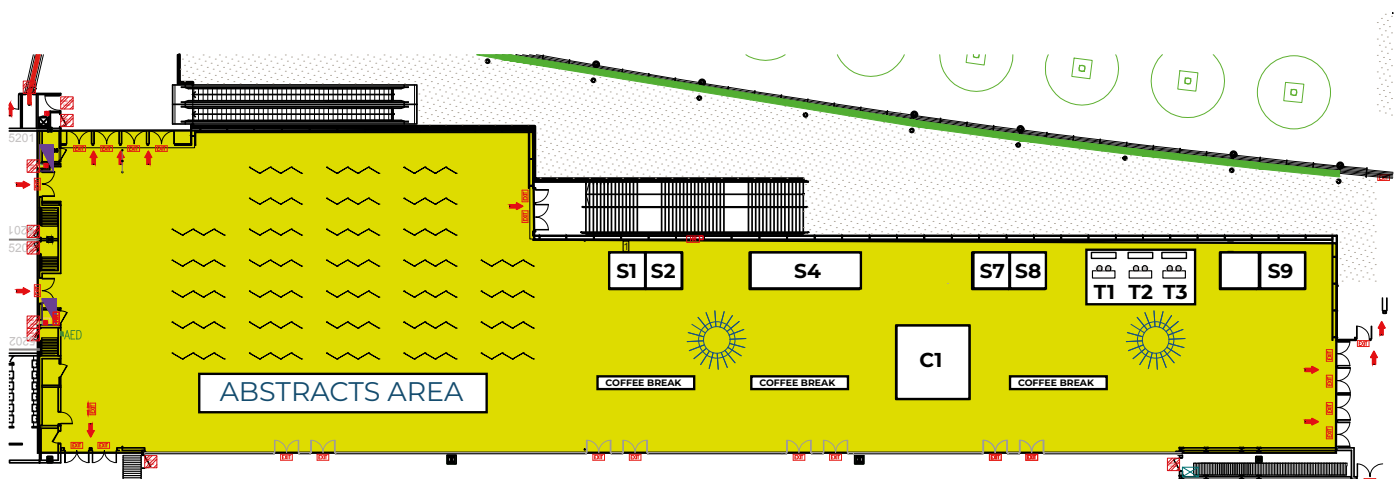
CONGRESS AND EXHIBITION FLOORPLAN

CONGRESS FLOORPLAN



5001	SECRETARIAT ROOM (5001)	ROOM B	TF PINNACLE
5003	ORGANISER ROOM (5003)	ROOM (E-L)	PLENARY HALL
5101	SPEAKERS' PREVIEW ROOM (5101)	ROOM (C - D)	BREAKOUT ROOMS C & D
5102	PRESS ROOM (5102)	ROOM (M - N)	BREAKOUT ROOMS M & N
	REGISTRATION COUNTER	ROOM (O)	ROOM O
	EXHIBITION & ABSTRACTS AREA		

EXHIBITION FLOORPLAN



S1	Thermo Fisher Scientific	S8	Oxford Nanopore Technologies	T1	CABI
S2	GenScript Biotech Corporation	S9	Exhibition Management Office	T2	Global One Health Community
S4	MGI	C1	illumina	T3	Borries
S7	Chan Zuckerberg Initiative				

SPONSORED LUNCH SYMPOSIUM



National Institute of Parasitic Diseases Lunch Symposium

Date : Monday, 7 November 2022

Time : 13:00pm - 14:00pm

Venue : Room B, Level 5, Marina Bay Sands Convention Centre

Title : Workshop of One Health Action and Assessment

Chair : ZHOU, Xiaonong

Director of One Health Center, Shanghai Jiao Tong University-The University of Edinburgh; Vice Dean of School of Global Health, Chinese Center for Tropical Diseases Research, Shanghai Jiao Tong University School of Medicine

Co-chair: ZINSSTAG, Jakob

Group Leader, Swiss Tropical and Public Health Institute, editor-in-chief of CABI One Health resources

AGENDA

13:00pm	Set-Up Video Introduction of Global One Health Index
13:05pm	One Health Action Commission: Why and How? Dr Zhou, Xiaonong
13:20pm	Think for One Health: Cloud Sourcing for Great Ideas Dr Gong, Wenfeng Senior Strategy Officer, Bill & Melinda Gates Foundation, China Country Office
13:30pm	Group Free Discussion: Key Working Areas of One Health Action and Assessment
13:45pm	Wrap-up Discussion: Next steps of One Health Action Commission All present led by Dr. ZHOU, Xiaonong
13:55pm	Closing Remarks Dr. ZINSSTAG, Jakob

SPONSORED DINNER SYMPOSIUM



Healthcare UK Dinner Symposium

Date : Tuesday, 8 November 2022

Time : 18:00pm - 20:00pm

Venue : Room M, Level 5, Marina Bay Sands Convention Centre

Title : UK and the world: Innovating on One Health opportunities together

Chair : Dr Mike Short CBE, Chief Scientific Officer, UK Department for International Trade

AGENDA

18:00pm	Welcome and Keynote Speech Dr Mike Short
18:10pm	Microbial approaches to One Health to drive the Bioeconomy Anthony Finbow, CEO, Eagle Genomics
18:20pm	The UK Defra's International One Health Offer around Capacity Building for LMICs. Dr. David Verner-Jeffreys, Bacteriology Lead - Centre for Environment, Fisheries and Aquaculture Science (CE-FAS) and Co-Director FAO International Reference Centre for AMR (UK).
18:30pm	Agrifoodtech in Southeast Asia John Friedman, Director of AgFunder and GROW Accelerator, Singapore
18:40pm	Q&A – Panel Style Facilitated by the Chair.
19:10pm	Closing Remarks Sam Myers, Deputy His Majesty Trade Commissioner for APAC, British High Commission Singapore
19:15PM	Networking and Dinner

TEMASEK FOUNDATION

PINNACLE SPONSOR

Temasek Foundation

Temasek Foundation supports programmes that uplift lives and communities in Singapore and beyond. We aim to strengthen social resilience, foster international exchange and enhance regional capabilities, advance science and protect the planet for a sustainable world. Temasek Foundation's programmes, made possible through philanthropic endowments gifted by Temasek, strive towards achieving positive outcomes for individuals and communities now, and for generations to come. For more information, visit www.temasekfoundation.org.sg

BILL & MELINDA GATES foundation

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Bill & Melinda Gates Foundation

Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people—especially those with the fewest resources—have access to the opportunities they need to succeed in school and life. Based in Seattle, Washington, the foundation is led by CEO Mark Suzman, under the direction of co-chairs Bill Gates and Melinda French Gates and the board of trustees.



PLATINUM SPONSORS

Global Affairs Canada

Canada's Weapons Threat Reduction Program

The Weapons Threat Reduction Program (WTRP), Canada's contribution to the G7-led Global Partnership Against the Spread of Weapons and Materials of Mass Destruction (GP), is a leader in building global capacity to prevent, detect and respond to infectious disease threats. The WTRP is assisting dozens of countries and international/regional organisations to strengthen biosafety and biosecurity for pathogens of security concern, enhance surveillance and diagnostic capabilities and improve capacities to mitigate biological threats. WTRP programming is guided by the GP's Biosecurity Deliverables, which were developed under Canada's 2010 G7 presidency and renewed during Canada's 2018 presidency. These provide the parameters for coordinated action by GP members to:

- secure and account for dangerous pathogens;
- prevent deliberate misuse of pathogens;
- enhance regional surveillance networks;
- reinforce biological non-proliferation instruments; and
- promote responsible conduct in biological sciences.

WTRP initiatives demonstrated their impact throughout the pandemic and supported the global response to COVID-19. This included biocontainment laboratories in the Caribbean, Ghana, Jordan, Nigeria, and South Africa, the ASEAN Emergency Operations Center Network and the ASEAN BioDiaspora Virtual Centre.

Canada's WTRP is a leading contributor to the GP's Signature Initiative to Mitigate Biological Threats in Africa and is committed to identifying new partnerships and innovations to strengthen global health security.

url: <https://www.international.gc.ca/global-affairs-affaires-mondiales/home-accueil.aspx?lang=eng>



Gordon and Betty Moore Foundation

Gordon and Betty Moore established the foundation to create positive outcomes for future generations. In pursuit of that vision, we foster path-breaking scientific discovery, environmental conservation, patient care improvements and preservation of the special character of the San Francisco Bay Area

url: <https://www.moore.org/>



ILLUMINA

Illumina is a global genomics and human health company powering the future of personalized medicine. Our industry leading research and innovation is enabling clinicians to detect and diagnose diseases earlier, opening new and more effective treatment options for patients. Driven by our mission to improve human health by unlocking the power of the genome, we are committed to making our technology affordable and accessible, realizing health equity for billions around the world.

At Illumina, we push boundaries. We think beyond the conventional. We dream big. We strive to make our solutions increasingly simple, more accessible, and always reliable. What is the origin of a puzzling disease? Is it possible to prevent the next pandemic? Or safeguard the world's food supply? These are just a few of the challenges that inspire us.

We aim to build a global community of innovators, partners, investors and educators passionate about genomics. Because together, we can drive forward the adoption of genomics and transform human health.
url: <https://www.illumina.com/>



DIAMOND SPONSOR

Australian Department of Foreign Affairs and Trade (DFAT)

The Australian Government's Indo-Pacific Centre for Health Security is at the forefront of Australia's effort to advance the One Health approach internationally with a specific focus on the Indo Pacific region. Established in 2017 and housed within the Department of Foreign Affairs and Trade, the Centre contributes to the avoidance and containment of infectious disease threats with the potential to cause social and economic harms on a national, regional or global scale. The Centre manages Australia's investments in country and regional projects in the Pacific and Southeast Asia support the strengthening of health information systems; disease surveillance and modelling; infection prevention and control, including antimicrobial resistance (AMR); vector surveillance and control; emergency operations; laboratory capacity; and workforces. These project investments are complemented by targeted support for the work of key multilateral organisations in our region, including the World Health Organization. The Centre supports the Ambassador for Regional Health Security, is advised by a Technical Reference Group, and draws on expertise from across government, academic, research and other organisations. Visit <https://indopacifichealthsecurity.dfat.gov.au/> to learn more about what Australia is doing with our partners in the region."



GOLD SPONSOR

Thermo-Fisher Scientific

Thermo Fisher Scientific is the world leader in serving science, with over 100,000 employees spread around the globe that are working toward our mission of enabling our customers to make the world healthier, cleaner and safer. In 2020, our ability to cost-effectively meet urgent COVID-19 testing needs catapulted us into the world of global health, where we became the largest supplier of SARS-CoV-2 qPCR testing to lower and middle-income countries, via UNICEF and WHO. We are committed to expanding our partnership with the global health community through development and deployment of holistic, cost-effective solutions across the diagnostic continuum that address endemic infectious diseases along with emerging diseases of public health concern.
url: <https://www.thermofisher.com/mm/en/home.html>



SILVER SPONSORS

GenScript Biotech Corp

GenScript Biotech Corp (Stock Code: 1548.HK) is the world's leading life science technology and service provider. GenScript Biotech's operations span over 100 countries worldwide with legal entities located in the US, Mainland China, Hong Kong, China, Japan, Singapore, the Netherlands and Ireland. GenScript Biotech is divided into four major platforms: life science service and product platform, biologics contract development and manufacturing organization (CDMO) platform, cell therapy platform and industrial biological product synthesis platform.
For more information, please visit GenScript Biotech's official website <https://www.genscript.com>.



MGI Tech

MGI Tech Co., Ltd. (MGI), an affiliate of BGI Group, is committed to building core tools and technology to lead life science through intelligent innovation. Based on its proprietary technology, MGI focuses on research & development, production and sales of sequencing instruments, reagents, and related products to support life science research, agriculture, precision medicine and healthcare. MGI's mission is to develop and promote advanced life science tools for future healthcare.
url: <https://en.mgi-tech.com/>



Zoetis

As the world's leading animal health company, we are driven by a singular purpose: to nurture our world and humankind by advancing care for animals. After nearly 70 years innovating ways to predict, prevent, detect, and treat animal illness, we continue to stand by those raising and caring for animals worldwide - from livestock farmers to veterinarians and pet owners. The company's leading portfolio and pipeline of medicines, vaccines, diagnostics, and technologies make a difference in over 100 countries. In 2020, we generated revenue of \$6.7 billion with ~11,300 employees.
For more, visit www.zoetis.com.

Botnar Research Centre for Child Health (BRCCH)

The Botnar Research Centre for Child Health (BRCCH) was jointly founded by the University of Basel and ETH Zurich in 2018. The Centre addresses unmet pediatric medical needs, focusing on the development of new healthcare solutions for the benefit of young people worldwide.
url: <https://brc.ch/>

CEPI

CEPI is an innovative global partnership between public, private, philanthropic, and civil society organisations working to accelerate the development of vaccines and other biologic countermeasures against epidemic and pandemic threats so they can be accessible to all people in need.
url: <https://cepi.net/>

CHANGI AIRPORT GROUP

<https://www.changiairport.com/corporate/about-us.html>

Healthcare UK

The UK Department for International Trade is the economic development arm of the British government. We secure UK and global prosperity by promoting and financing international trade and investment. We work with international partners to improve healthcare in the UK and around the world. Reach out if you'd like to learn about the latest UK One Health innovations or opportunities
url: <https://www.great.gov.uk/international/>

Hilleman Laboratories

Hilleman Laboratories is an equal joint venture between MSD and Wellcome Trust, with a mission to develop affordable vaccines and biologics against infectious diseases for populations in low- and middle-income countries. Hilleman Laboratories collaborates with local, regional, and global partners and stakeholders to facilitate access to life-saving vaccines.
url: <https://hilleman-labs.org/>

National Institute of Parasitic Diseases at the Chinese Center for Disease Control and Prevention

(Chinese Center for Tropical Diseases Research)

The National Institute of Parasitic Diseases (NIPD) of the Chinese Centre for Diseases Control and Prevention is a leader in the fight against parasitic diseases in China, with an influential track record of publishing cutting-edge science about parasite biology, epidemiology, and immunology for more than 70 years. The institute is WHO collaborating center for tropical diseases and MoH key laboratory on parasite and vector biology since 1980s.
url: <https://www.ipd.org.cn>

Novartis

Our purpose is to reimagine medicine to improve and extend people's lives. We use innovative science and technology to address some of society's most challenging healthcare issues. We discover and develop breakthrough treatments and find new ways to deliver them to as many people as possible. We also aim to reward those who invest their money, time and ideas in our company.
<https://www.novartis.com/>

EXHIBITORS
(Physical and Virtual)

Accord Healthcare (Virtual Booth)

Accord Healthcare is a fast-growing global pharmaceutical company that develops, manufactures and distributes generics medicines and biosimilars in over 85 countries worldwide. Accord's therapeutic portfolio includes Oncology, Cardiology, Neurology, Psychiatry, Diabetes, and many others.
url: www.accord-healthcare.asia

Borries Pte Ltd (Physical Booth, T3)

Borries Pte Ltd is an innovative Singapore technology company that develops and manufactures the world most advanced Rapid Automated Virus Imaging and Surveillance System in Screening and Diagnostic to help defend against future outbreaks/pandemics
url: <https://borriestech.com/>

CABI (Physical Booth, T1)

CABI is an academic publisher whose One Health resources include an open access journal, a collection of educational case studies, and a searchable database of One Health content.
url: CABIDigitalLibrary.org/journal/cabioh

Chan Zuckerberg Initiative (Physical Booth, S7)

The Chan Zuckerberg Initiative was founded in 2015 to help solve some of society's toughest challenges — from eradicating disease and improving education, to addressing the needs of our local communities. Through collaboration, providing resources, and building technology, our mission is to help build a more inclusive, just, and healthy future for everyone. For more information, please visit url: www.chanzuckerberg.com.

GenScript Biotech Corp (Physical Booth, S2 and Virtual Booth)

GenScript Biotech Corp (Stock Code: 1548.HK) is the world's leading life science technology and service provider. GenScript Biotech's operations span over 100 countries worldwide with legal entities located in the US, Mainland China, Hong Kong, China, Japan, Singapore, the Netherlands and Ireland. GenScript Biotech is divided into four major platforms: life science service and product platform, biologics contract development and manufacturing organization (CDMO) platform, cell therapy platform and industrial biological product synthesis platform.

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ILLUMINA (Physical Booth, C1 and Virtual Booth)

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url: <https://www.illumina.com/>

MGI Tech (Physical Booth, S4 - 6)

MGI Tech Co., Ltd. (MGI), an affiliate of BGI Group, is committed to building core tools and technology to lead life science through intelligent innovation. Based on its proprietary technology, MGI focuses on research & development, production and sales of sequencing instruments, reagents, and related products to support life science research, agriculture, precision medicine and healthcare. MGI's mission is to develop and promote advanced life science tools for future healthcare.

url: <https://en.mgi-tech.com/>

Oxford Nanopore Technologies plc (Physical Booth, S8)

Oxford Nanopore Technologies has developed the world's first and only nanopore DNA/RNA sequencing devices, scalable to your requirements. Oxford Nanopore brings real-time sequencing with unrestricted read lengths, to anyone, anywhere, whether in scientific research, education, or real-world applications.

url: <https://nanoporetech.com/>

Thermo-Fisher Scientific (Physical Booth, S1 and Virtual Booth)

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url: <https://www.thermofisher.com/mm/en/home.html>

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