

One Health EcoHealth 2016

3-7 December 2016 • Melbourne, Australia

The 4th International One Health Congress & 6th Biennial Congress of the International Association for Ecology and Health









www.oheh2016.org

BUSINESS EVENTS AUSTRALIA



One Health EcoHealth 2016

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Some of the speakers Bruce Aylward, ADG, WHO Ab Osterhaus, Hannover Peter Collignon, Canberra David Heymann, Public Health England Frank Aarestrup, Denmark Kristie Ebi, University of Washington Ove Hoegh-Gukdberg, Univ of QLD Jonathan Patz, Univ of Wisconsin Rita Colwell, Univ of Maryland Jorgen Schlundt, Nanyang Tech Univ Jonna Mazet, Univ of Calilif, Davis Dennis Carroll, USAID Peter Daszak, EcoHealth Alliance











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George Gao, China CDC, Beijing Eddie Holmes, Sydney Sarah Cleaveland, Glasgow Andy Dobson, Princeton Linfa Wang, Duke-NUS, Singapore Lone Simonsen, George Washinton Univ Christian Drosten, Bonn Delia Grace, ILRI Jonathan Rushton, Royal Vet College Cristina Romanelli, Conv Biolog Diversity Peter Doherty, Melbourne Billy Karesh, EcoHealth Alliance Dominique Charon, IDRC, Canada Prof Nigel French, Massey University



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Symposia

Pathways to a sustainable world Challenges to human and animal health Future Health – responding to pressures from global change Education into Action: Building One Health in Asia Novel emergent viruses Food and nutrition systems – feeding our world safely and sustainably Keeping food and water safe Neglected tropical diseases PREDICT: a program seeking novel diseases from wildlife Strengthening biosecurity Preparedness for responding to emerging diseases Mechanisms and concepts in disease emergence Pathways for responding to emerging diseases and invasive species The impact and benefit of One Health and EcoHealth approaches **Planetary Health Alliance**



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OUR MOTIVATION: ANSWERING URGENT ONE HEALTH NEEDS

- An integrated approach to combat different types of health threats:
 - (re-) emerging neglected viruses
 - antiviral and antibiotic resistance
 - bacterial and parasitic infections
- Shared concern and understanding that as transborder mobility of humans, animals, food, and feed products increases, so does the threat of the spread of dangerous pathogens and infectious diseases
- Education and training of the next generation of One Health experts
- A framework for information sharing, detecting and mending knowledge gaps and cross-sectoral cooperation



OUR MISSION

The One Health Platform is a strategic forum of stakeholders and a One Health reference network that aims to enhance understanding of and preparedness for the current and future outbreaks of zoonoses, emerging infectious diseases in humans and animals, and antimicrobial resistance, including the ecological and environmental factors which impact on these diseases.



OUR OBJECTIVES

- Provide a strategic forum for researchers, early career investigators, governmental and non-governmental institutions, international organisations and companies to foster cross-sectoral collaborations
- Identify and prioritize research gaps in the fields of zoonoses, emerging infectious diseases and antimicrobial resistance, including the ecological and environmental factors which impact on these diseases, and advocate the resulting scientific research agenda - both on a scientific and policy level
- Create synergies and facilitate the sharing of data between researchers and research groups in order to mend the prioritized research gaps, and translate these novel data to anyone who might benefit from them



OUR OBJECTIVES

- Coordinate global research and disseminate the results and insights of existing and new research projects on zoonoses, emerging infectious diseases and antimicrobial resistance, including the ecological and environmental factors which impact on these diseases.
- Establish an information reference centre for the One Health community
- Enhance awareness of the value of the One health approach through communication, facilitation of interactions between stakeholder groups, education and training, and specific efforts to convince "non-believers", both in the research community and in the policy arena









Management Board





- Prof. Ab Osterhaus, Professor of Wildlife Virology and Virus Discovery, Hannover, Germany
- Prof. John McKenzie, Research Associate & Professor of Tropical Infectious Diseases at Curtin University, Australia
- Mrs. Chris Vanlangendonck, Semiotics (daily management and communication)



Supervisory Board

- Comprises of key scientific experts, representing the different One Health disciplines
- Continued efforts to improve coverage in terms of knowledge, expertise and regional representation



Patron and Honorary Board member

Peter Doherty, professor of Microbiology and Immunology at the University of Melbourne, Australia



Supervisory Board Members

Ab Osterhaus, professor of Wildlife Virology and Virus Discovery, Hannover, Germany

John McKenzie, Research Associate & Professor of Tropical Infectious Diseases at Curtin University, Australia

David Heymann, Chair of Public Health England, UK

Guiseppe Cornaglia, Professor of microbiology at Verona University, Italy

Martyn Jeggo, Director of the Geelong Centre for Emerging Infectious Diseases, Australia

Christian Drosten, Director of the Institute of Virology at University of Bonn Medical Centre, Germany

Lone Simonsen, Professor of Global Health at George Washington University, USA

Peter Daszak, President of the EcoHealth Alliance

George Gao, Deputy Director-General of CDC China

Frederick Murphy, University of Texas, USA

Amadou Alpha Sall, Institut Pasteur de Dakar, Senegal



Supervisory Board Members

Derek Smith, Professor of Infectious Disease Informatics, Cambridge University, UK

Rita Colwell, Johns Hopkins University Bloomberg School of Public Health, USA

Linfa Wang, Duke-NUS Graduate Medical School, Singapore

Mark Rweyemamu, Director of the Southern African Centre for Infectious Diseases and Surveillance (SACIDS)

Edward Holmes, Marie Bashir Institute for Infectious Diseases & Biosecurity, University of Sydney, Australia

Tom Monath, CO & CSO at BioProtection Systems/NewLink Genetics Corp., USA

Nick Juleff, Senior Program Officer Animal Health portfolio, Bill & Melinda Gates Foundation

Dennis Carroll, Director Global Health Security and Development, USAID **Larry Madoff**, Editor ProMED-mail ISID, Professor of Medicine, University of Massachusetts



Early Career Researchers Circle

- Aims to have a positive impact on the careers of promising researchers through scholarships, awards and networking
- Coordinator: Leslie Reperant, Artemis One Health, Utrecht, The Netherlands



Supporting Partners Action Group

- Working group of One Health industry partners and donors
- Coordinator: Theo Kanellos, Zoetis

International One Health Coalition

- Structural partnership with international governmental and non-governmental organizations and institutions
- Aims to reinforce the One Health concept by creating synergies and collaborative relationships



International One Health Coalition



Ad hoc collaboration with...





And expansion is ongoing...





ENTERS FOR DISEASE











SUPPORTING PARTNERS

The One Health Platform builds on the collective expertise and knowledge from:

- International non-profit and funding organizations
- EU research projects & academic institutions
- Corporate supporters

Manufacturers of vaccines, antiviral medicines, antibiotics, diagnostic tools, anti-parasitic agents or any other product or service that contributes to One Health



Biennial International One Health Congresses

- Designed for members of the One Health community, including public health officials, business leaders, clinicians and social scientists
- Scientific programme based on the One Health Platform Research agenda
- Separate Science Policy Interface track for public health officials and decision makers
- Fourth edition: Melbourne, December 2016
- Fifth edition: Saskatoon, June 2018





Annual Supervisory Board Meeting

- Determines and implements the foundation's strategy
- Develops, implements and coordinates action plans to achieve the foundation's objectives

Annual General Assembly Meetings

- Annual gathering of Supervisory Board, International One Health Coalition and Supporting Partners Action Group
- Stakeholder group reflects on the foundation's actions and plans
- Established to generate and exchange new ideas and collaborative partnerships



One Health Symposium

- Scientific symposium for academics, business leaders, decision makers and public health officials
- Tailored programme on:
 - The role of livestock in poverty reduction and improving nutrition
 - One Health implications of mass migration in humans and animals
 - Knowledge transfer and innovation in vaccines and diagnostics
- Lead organizers: Chatham House London and Livestock Global Alliance (LGA)
- 31 May-1 June 2016 Chatham House, London



FIRST ANNUAL

onentation base of the second second

Promoting efforts around the world to bring together all human, animal, and environmental health disciplines

created and hosted by



 \checkmark watch for more information coming April 2016

One Health Day Campaign

- Fosters collaboration between members of the medical, veterinary and ecology communities
- Encourages university students to set up One Health events that bring together student delegates from different backgrounds, in the aim to forge a strong community of next generation One Health researchers
- Collaborative effort of the One Health Platform, the One Health Commission and the One Health Initiative
- Endorsement and support from leading global health organizations/institutions will be sought



Define, initiate and coordinate scientific research projects with regard to implementing the One Health Research Agenda

The One Health Platform will not act as a funding organization itself, but commits to facilitate research projects in order to mend previously identified research caveats by applying for funding, assembling powerful consortia, coordinating research and disseminating study results



The One Health Platform builds on the collective expertise and knowledge of its partners. It is dedicated to use this knowledge to the benefit of the One Health community by:

- Providing *ad hoc advice* to international foundations, national and international governments, governmental institutions and other non-profit organizations
- Creating ad hoc and structural synergies with existing organizations in order to develop and implement a joint agenda or to mutually support and strengthen agenda's



OUR DISSEMINATION TOOLS

www.onehealthplatform.com

Web portal to collect and disseminate information on One Health at all levels and on all aspects

One Health 'newspaper'

Periodically printed publication in newspaper format that brings the latest news and information from the OH arena

Database of global One Health actors
 A powerful customer relationship management system allows the dissemination of relevant One Health content in just a few clicks

Ad hoc electronic news flashes bringing highlights and alerts



OUR DISSEMINATION TOOLS

One Health Journal

- An online-only, open access Journal by Elsevier
- A unique, multi-disciplinary journal based on the recognition that human, animal and ecosystem health are inextricably linked
- Submissions welcome at <u>www.ees.elsevier.com/onehlt</u>





TOOLS & ACTIVITIES

One Health Journal

- Provides a platform for rapid communication of high quality scientific knowledge on zoonotic pathogens and cross-species disease transmission, bringing together leading experts in virology, pathology, immunology, parasitology, veterinary sciences, food safety, mathematical modelling, epidemiology, public health research and emergency preparedness
- The Journal features original research articles, reviews, short communications, opinion articles and outbreak reports
- Volume 1 was completed and papers are being called for volume 2.
 More than 20 papers have been published or are in press.



TOOLS & ACTIVITIES

One Health Journal

Editors in chief

- Albert Osterhaus, Professor of Wildlife Virology and Virus Discovery, Hannover, Germany
- John Mackenzie, Research Associate & Professor of Tropical Infectious Diseases at Curtin University, Australia



TOOLS & ACTIVITIES

One Health Journal

Associate editors

- Malik Peiris Chair of Virology and Scientific Director of the HKU Pasteur Research Centre, University of Hong Kong, China
- **Rita Colwell** *Professor at the University of Maryland and at Johns Hopkins Bloomberg School of Public Health, United States of America*
- Christian Drosten Director of the Institute of Virology, University of Bonn Medical Centre, Bonn, Germany
- David Heymann Chairman of Public Health England and Professor of Infectious Disease Epidemiology, London
- Alex Friedrich Chair and Head of the Department of Medical Microbiology, University Medical Center Groningen, the Netherlands
- **Derek Smith** *Professor at the Department of Infectious Diseases, University of Cambridge, United Kingdom*
- Martyn Jeggo Professor at Deakin University and founder of the Geelong Centre for Emerging Diseases



