

THE 5TH INTERNATIONAL

ONE
HEALTH
PLATFORM

one health CONGRESS

FIRST ANNOUNCEMENT

OHS
ONE
HEALTH
SCIENCE

AMR
ANTIMICROBIAL
AGENTS AND
RESISTANCE

SPI
SCIENCE
POLICY
INTERFACE

Saskatoon
CANADA 22-25 June
2018

www.onehealthcongress.com

THE 5TH INTERNATIONAL



ne health CONGRESS



INVITATION

We are delighted to invite you to join us at the 5th International One Health Congress, which will be held in Saskatoon, Canada, on 22 - 25 June 2018.

The congress will build upon the excellent sessions and debates at previous International One Health Congresses organized in Melbourne, Bangkok and Amsterdam to give the floor to the most renowned experts and researchers. Since the first congress in 2011, the One Health approach has been increasingly accepted by major international health oriented organizations, academic research institutes, field workers and the pharmaceutical industry. We warmly welcome the growing movement of One Health advocates who strongly support the idea of an integrated approach to human, animal and environmental health as the best solution to complex and urgent health threats.

On behalf of the Organizing Committee, we are looking forward to welcoming you to Saskatoon in June 2018.



Prof. Ab Osterhaus
One Health Platform



Prof. John Mackenzie
One Health Platform



Prof. Karen Chad
University of Saskatchewan

INTRODUCTION

Many of the major challenges facing global health need a One Health approach to both better understand the threats and seek some of the answers. These challenges include food and water safety and security as the population grows ever larger, the threats faced by antimicrobial resistance, and the future challenge of global climate change. Indeed vector-borne diseases that continue to cause major outbreaks such as yellow fever, Zika and West Nile viruses are excellent examples of zoonotic diseases at the human, animal and environmental interfaces, and which may be particularly susceptible to further spread due to increased global warming.

To capture this multifaceted One Health paradigm, the organizers of the 5th International One Health Congress have developed a unique congress concept. World experts will showcase recent advances in pathogen discovery, diagnostics, drivers for emerging infections, vaccinology, ecology, food and water safety, and political and social science. In response to WHO's warning that antimicrobial resistance is a global societal challenge and threat, the conference will have a separate programme track dedicated to AMR. Additionally, the conference will have a tailor-made programme for public health officials and government representatives.

'One Health in underserved communities' is the overarching theme of the congress, in recognition of the complex interplay of environmental, animal and human health in underprivileged societies around the world.



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SCIENTIFIC EXCELLENCE

Complementing the scientific expertise of the Scientific Programme Committee is the Canadian One Health Network, initiated by the University of Saskatchewan, the Southern African Centre for Infectious Disease Surveillance (SACIDS), CDC Kenya and One Health Eastern & Central Africa (OHCEA).

Our unique position in the One Health arena allows us to capitalize on the growing interest and believe in an integrated approach to solving global health threats. Recent global disease events, like the outbreaks of Ebola, MERS and Zika, have underpinned the increasing impact of zoonotic diseases on human and animal health. It has also become clear that changes in the environment, like population growth and climate change, impact heavily on animal and human health. The 5th International One Health Congress will therefore carefully evaluate the most imminent potential hazards from various perspectives. Urgent issues like food safety, water security and integrity of the environment will be high on the congress agenda. World experts will address the social and cultural determinants of One Health.

SCIENTIFIC PROGRAMME COMMITTEE

Ab Osterhaus

RIZ HANNOVER, GERMANY

John Mackenzie

CURTIN UNIVERSITY,
AUSTRALIA

Martyn Jeggo

GEE LONG CENTRE FOR
EMERGING INFECTIOUS
DISEASES, AUSTRALIA

Amadou Alpha Sall

INSTITUT PASTEUR DE
DAKAR, SENEGAL

Mark Rweyemamu

DIRECTOR OF THE
SOUTHERN AFRICAN CENTRE
FOR INFECTIOUS DISEASES
AND SURVEILLANCE (SACIDS)

Linfa Wang

DUKE-NUS MEDICAL
SCHOOL, SINGAPORE

Bill Karesh

ECOHEALTH ALLIANCE

Patrick Leighton

UNIVERSITY OF MONTREAL,
CANADA

Ottorino Cosivi

WHO-BRAZIL

Andrew Dobson

PRINCETON UNIVERSITY, USA

Casey Barton-Beravesh

CDC, USA

Malik Peiris

UNIVERSITY OF HONG KONG

Baljit Singh

UNIVERSITY OF CALGARY,
CANADA

Sam Iverson

ENVIRONMENT AND CLIMATE
CHANGE CANADA

Volker Gerdtz

UNIVERSITY OF
SASKATCHEWAN, CANADA

Jonna Mazet

UC DAVIS, USA

Penina Munyua

ONE HEALTH DIRECTOR CDC
KENYA

Lorne Babiuk

UNIVERSITY OF ALBERTA,
CANADA

Susan Kutz

UNIVERSITY OF CALGARY,
CANADA

Craig Stephen

UNIVERSITY OF
SASKATCHEWAN, CANADA

Marietjie Venter

UNIVERSITY OF PRETORIA, SA

ONE HEALTH SCIENCE

SESSION TOPICS

Pathogen discovery

Diagnostics

Surveillance and early detection

Intervention strategies

Social science and politics

Pathogenesis

Drivers for emerging diseases

One Health in underprivileged communities

Vaccines

**Infectious diseases from
an ecohealth perspective**



ONE
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SCIENCE

“One Health aims to prevent disease at a very high level, it addresses the root causes of what is driving diseases to emerge.”

Laura H. Kahn, Princeton University, USA



ADDRESSING ANTIMICROBIAL RESISTANCE

In September 2016, the World Health Organization officially stated that “antimicrobial resistance is a global societal challenge and threat”.

Antimicrobial resistance, however, is not a new problem. To bring international attention to a growing public health threat, WHO launched its policy package to combat AMR in 2011. These principles will be at the core of the discussions during the 5th International One Health Congress as they include:

- Strengthening surveillance and laboratory capacity
- Ensuring uninterrupted access to essential medicines of assured quality
- Regulation and promotion of rational use of medicines
- Enhancing infection prevention and control
- Fostering research and development for new medicines and tools

The 2016 Declaration on Combating Antimicrobial Resistance, issued at the occasion of the World Economic Forum in Davos, complements WHO’s policy package as it calls for urgent measures to reduce the development of drug resistance, increased investment in research into new antibiotics, diagnostics and vaccines, and ensuring that these new generations of products are available to all those who need them.

The 5th International One Health Congress will bring together the world’s leading experts to present and discuss the latest scientific data and advances on the above topics in a separate programme track dedicated to antimicrobial resistance.

AMR

ANTIMICROBIAL AGENTS AND RESISTANCE

“The emergence of AMR really threatens to send us backwards. By 2050 more people will die from antibiotic-resistant infections than currently die from cancer.”

Keiji Fukuda, Assistant Director-General of the World Health Organization

SCIENTIFIC PROGRAMME COMMITTEE ON ANTIMICROBIAL RESISTANCE

Giuseppe Cornaglia
VERONA UNIVERSITY, ITALY

Jorgen Schlundt
NANYANG TECHNOLOGICAL
UNIVERSITY, SINGAPORE

Cheryl Waldner
UNIVERSITY OF
SASKATCHEWAN, CANADA

Gerard Wright
M.G. DEGROOTE INSTITUTE
FOR INFECTIOUS DISEASE
RESEARCH, CANADA

Britta Lassman
INTERNATIONAL SOCIETY FOR
INFECTIOUS DISEASES

Rafael Canton
UNIVERSITY HOSPITAL OF
MADRID, SPAIN

Jaap Wagenaar
UTRECHT UNIVERSITY, THE
NETHERLANDS

Richard Reid-Smith
CANADIAN INTEGRATED
PROGRAM FOR
ANTIMICROBIAL RESISTANCE
SURVEILLANCE (CIPARS)

Robert Skov
STATENS SERUM INSTITUT,
DENMARK

Surbhi Malhotra-Kumar
UNIVERSITY OF ANTWERP,
BELGIUM

Cornelia Lass-Floerl
UNIVERSITY OF INNSBRUCK,
AUSTRIA

Laura H. Kahn
PRINCETON UNIVERSITY, USA

David Heymann
CHATHAM HOUSE LONDON

Tamika Sims
INTERNATIONAL FOOD
INFORMATION COUNCIL

ADDRESSING ANTIMICROBIAL RESISTANCE

SESSION TOPICS

Use of antibiotics in human and animals, in food and agriculture and the environmental impact

Genomic epidemiology/ evolution of AMR transmission

Real life applications of whole genome sequencing

Prevalence and surveillance of resistance

Novel strategies for AMR interventions / preparedness

Alternative approaches to tackling resistant infections

Rapid diagnostics



“The emergence of infections that are resistant to drugs is the most pressing health issue of our time.”

Jeremy Farrar, Director of the Wellcome Trust

TRANSLATIONAL SCIENCE

The Science Policy Interface track is a tailor-made programme for public health officials, government representatives and academics and students of public policy. It is specifically designed to bridge the gap between evidence and health policy and to that end, our scientific faculty will discuss the policy implications of their research on the most intriguing topics with leading policy makers. Experts will use high-quality data to guide discussions, and - ultimately - to improve the health of humans, animals and the environment through evidence-based policy.

IMPORTANT TOPICS

Policies in response to antimicrobial resistance

Equitable access to medicines and tools

The role of livestock in poverty reduction

Successful management of pandemic virus outbreaks

The need for innovative medicines and prevention tools

WHO SHOULD ATTEND?

The target audience of the science policy interface includes Chief Veterinary Officers, Chief Medical Officers, Director-Generals of Public Health, representatives of national and international public health organizations, and pharmaceutical industry policy experts.



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“Some of the most devastating new human infections, like Ebola, HIV and dengue, have naturally transmitted from animals to humans. Health scientists and public health officials therefore need to work together to attain optimal health for people, animals, and our environment. The Science Policy Interface programme at the 5th International One Health Congress offers an excellent platform for such interaction.”

Chris Vanlangendonck, One Health Platform

SCIENCE POLICY INTERFACE PROGRAMME COMMITTEE

Ab Osterhaus
RIZ HANNOVER, GERMANY

John MacKenzie
CURTIN UNIVERSITY,
AUSTRALIA

Chris Vanlangendonck
DIRECTOR OF SEMIOTICS,
BELGIUM

Peter W.B. Phillips
UNIVERSITY OF
SASKATCHEWAN, CANADA

Bill Karesh
ECOHEALTH ALLIANCE

Bart Staes
MEMBER OF EUROPEAN
PARLIAMENT, BELGIUM



PROGRAMME AT A GLANCE







THE 5TH INTERNATIONAL









Friday 22 June 2018

13:15 - 14:45	Satellite symposium
15:00 - 16:30	Satellite symposium
16:45 - 18:15	Satellite symposium
18:30 - 20:00	Opening ceremony
20:00 - 22:00	Welcome reception



Saturday 23 June 2018

7:30 - 9:00	Satellite symposium			
9:15 - 10:15	Plenary session			
10:15 - 10:45	Coffee break			
10:45 - 12:30	Parallel sessions			
	 OHS One health science	 OHS One health science	AMR Antimicrobial agents and resistance	SPI Science policy interface
12:30 - 14:00	Lunch/ satellite symposium			
14:00 - 15:45	Parallel sessions			
	 OHS	 OHS	AMR	SPI
15:45 - 16:15	Coffee break			
16:15 - 18:00	Parallel sessions			
	 OHS	 OHS	AMR	SPI
18:00 - 19:30	Satellite symposium			

Sunday 24 June 2018

7:30 - 9:00	Satellite symposium			
9:15 - 10:15	Plenary session			
10:15 - 10:45	Coffee break			
10:45 - 12:30	Parallel sessions			
	 HS One health science	 HS One health science	AMR Antimicrobial agents and resistance	SPI Science policy interface
12:30 - 14:00	Lunch/ satellite symposium			
14:00 - 15:45	Parallel sessions			
	 HS	 HS	AMR	SPI
15:45 - 16:15	Coffee break			
16:15 - 18:00	Parallel sessions			
	 HS	 HS	AMR	SPI
18:00 - 19:30	Satellite symposium			
20:00 - 23:00	Farewell dinner			

Monday 25 June 2018

7:30 - 9:00	Satellite symposium			
9:00 - 10:00	Plenary session - YOUNG ONE HEALTH session			
10:00 - 10:30	Coffee break			
10:30 - 12:15	Parallel sessions			
	 HS One health science	 HS One health science	AMR Antimicrobial agents and resistance	SPI Science policy interface
12:15 - 13:45	Plenary Session Late Breakers And Closing Ceremony			
13:45 - 14:30	Lunch buffet			
14:30 - ...	Guided excursion			

ABOUT SASKATOON

The city of Saskatoon is favourably positioned with the South Saskatchewan River winding through it. Eight bridges span its gentle flow, linking east to west. An active city, residents and visitors alike flock to the Meewasin Valley trails, traversing sixty kilometres of pathways in all seasons. The city's youthful vitality and cultural richness are evident in every neighbourhood, thanks in part to the University of Saskatchewan, where leading-edge technology such as the Canadian Light Source synchrotron draws the best minds from around the world.

Saskatoon's John Diefenbaker International Airport is only 10 minutes from downtown, with daily flights available to and from major Canadian and U.S. destinations: Vancouver, Toronto, Ottawa, Calgary, Edmonton, Minneapolis, Phoenix and Las Vegas.

THE VENUE

TCU Place

35 22nd Street East
SK S7K 0C8
Saskatoon, Canada
tcuplace.com

Situated in beautiful downtown Saskatoon, TCU Place, Saskatoon's Arts & Convention Centre is considered one of the best conference facilities in western Canada.





ABOUT THE ORGANIZERS

The 5th International One Health Congress is a co-organization of the One Health Platform Foundation and the University of Saskatchewan.



The **ONE HEALTH PLATFORM** is a strategic forum of One Health stakeholders and advocates who strongly support the idea of an integrated approach to human, animal and environmental health as the best solution to complex and urgent health threats.

The fight against antimicrobial resistance and the development of better and safer medicines for zoonoses and emerging infectious diseases are among the main objectives of the One Health Platform. To address these challenges successfully, however, we urgently need to integrate know-how, evidence and technologies from key players involved in healthcare research, including academic institutions and pharmaceutical companies. The One Health Platform therefore brings together academics (Scientific Advisory Board),

the pharmaceutical industry (Industry Advisory Board) and public health officials (International One Health Coalition) to determine the most urgent research gaps, coordinate research, disseminate study results, advocate and implement the One Health Agenda in order to improve the health of humans, animals and the environment through evidence-based policy.

www.onehealthplatform.com

Join the One Health Platform
on Facebook and Twitter



UNIVERSITY OF SASKATCHEWAN

The **UNIVERSITY OF SASKATCHEWAN** is one of Canada's leading medical-doctoral research-intensive universities, and offers the widest array of human and animal health science programs in the country. "One Health: Solutions at the Animal-Human-Environment Interface" is one of six signature areas and, importantly, the University of Saskatchewan has substantial expertise in working with underserved communities. In 2014, the UoS proposed the concept for a Canadian One Health Network that brings together more than 150 researchers from 18 universities, 5 Government Agencies and more than 10 industry partners. In collaboration with the One Health Platform, the UoS will draw assistance from these experts and others in developing an outstanding congress program. More information about the University of Saskatchewan is to be found on www.usask.ca



ORGANIZING EXECUTIVE BOARD

Ab Osterhaus

RIZ HANNOVER, GERMANY
CO-FOUNDER ONE HEALTH
PLATFORM FOUNDATION
CO-CHAIR
5TH INTERNATIONAL
ONE HEALTH CONGRESS

John Mackenzie

CURTIN UNIVERSITY,
AUSTRALIA
CO-FOUNDER ONE HEALTH
PLATFORM FOUNDATION
CO-CHAIR
5TH INTERNATIONAL
ONE HEALTH CONGRESS

Karen Chad

UNIVERSITY OF
SASKATCHEWAN, CANADA
CO-CHAIR
5TH INTERNATIONAL
ONE HEALTH CONGRESS

Chris Vanlangendonck

CO-FOUNDER ONE HEALTH
PLATFORM FOUNDATION
DIRECTOR OF SEMIOTICS,
BELGIUM

Mark Rweyemamu

DIRECTOR OF THE
SOUTHERN AFRICAN
CENTRE FOR INFECTIOUS
DISEASES AND
SURVEILLANCE (SACIDS)

Bruce Kaplan

ONE HEALTH INITIATIVE

Baljit Singh

UNIVERSITY OF CALGARY,
CANADA

Doug Freeman

UNIVERSITY OF
SASKATCHEWAN, CANADA
CHAIR LOCAL ORGANIZING
COMMITTEE
5TH INTERNATIONAL
ONE HEALTH CONGRESS

Kim Ali

ON PURPOSE LEADERSHIP
(PCO)

LOCAL ORGANIZING COMMITTEE

Doug Freeman

UNIVERSITY OF
SASKATCHEWAN, CANADA
CHAIR LOCAL ORGANIZING
COMMITTEE
5TH INTERNATIONAL
ONE HEALTH CONGRESS

Volker Gerdts

UNIVERSITY OF
SASKATCHEWAN, CANADA

Vikram Misra

UNIVERSITY OF
SASKATCHEWAN, CANADA

(CURRENT MEMBERSHIP - TO BE EXPANDED)

ONE HEALTH IN UNDERSERVED COMMUNITIES

In many parts of the world, especially in developing countries and underserved communities, society is confronted with urban sprawl, spread of infectious diseases, rampant foodborne disease outbreaks, sick livestock and companion animals, and chronic water shortages. These challenges require global solutions in a One Health approach. The 5th International One Health Congress will therefore pay special attention to implementing One Health in underserved communities, in recognition of the complex interplay of environmental, animal and human health in underprivileged or subsistent societies around the world. At the same time, we wish to reinforce the increasing number of excellent One Health activities in developing countries.

“On a national level, we see an increasing number of excellent One Health activities, notably in South-East Asian and African countries.”

John Mackenzie, One Health Platform

ONE HEALTH FELLOWSHIP FUND



The One Health Platform actively encourages the careers of promising researchers. The conference organizers therefore intend to establish a One Health Fellowship Fund to provide travel grants to young scientists. In addition, early career scientists will act as co-chairs during the scientific conference sessions while the most promising academics may be offered the chance to present their work in a plenary session entirely devoted to the work of promising scientists (Monday 25 June 2018).

IMPORTANT DATES

Online registration via www.onehealthcongress.com as of 1 July 2017

Launch Open Call for One Health Fellowship Applications: 1 August 2017

Deadline submission One Health Fellowship Applications: 15 October 2017

Online abstract submission as of 02 November 2017

www.onehealthcongress.com

If you have any questions about the 5th
International One Health Congress, please contact:

semiotics



CHRIS VANLANGENDONCK

Co-founder One Health Platform Foundation

Director of Semiotics, experts in science communication

Member of the IOHC 2018 Organizing Committee

c.vanlangendonck@onehealthplatform.com