

Agenda

Speakers



6 November 2017

Stockholm Waterfront Conference Centre

One Health - we are in this together - Viral and bacterial diseases/conditions at the animal-human interface

12:40 – 12:50 Arrival of participants with their lunch

12:50 – 13:00 Welcome notes

Dr Ines Steffens, Editor-in-chief, *Eurosurveillance*

13:00 – 13:10 Introduction and moderation

Dr Johanna Takkinen, ECDC, Stockholm, Sweden

13:10 – 13:35 Intrinsic and extrinsic factors for the emergence of zoonotic viruses at the animal-human interface

Professor Sylvie van der Werf, Head of the Molecular Genetics of RNA Viruses Unit at the Institut Pasteur, Paris, France

13:35 – 13:40 Q&A

13:40 – 14:05 Antimicrobial stewardship in livestock and companion animals: the why and the how

Professor Luca Guardabassi, Department of Veterinary Clinical Microbiology, University of Copenhagen, Copenhagen, Denmark / Director One Health Center for Zoonoses and Tropical Veterinary Medicine, Professor of Clinical Microbiology, Ross University School of Veterinary Medicine, St Kitts, West Indies

14:05 – 14:10 Q&A

14:10 – 14:30 Discussion and closing remarks by the moderator



Pr Sylvie van der Werf

Pr. van der Werf is a Professor at the University Paris Diderot where she is responsible for a master program in Immunology, microbiology, virology and infectious diseases. The Head of the Molecular Genetics of RNA Viruses

Unit at the Institut Pasteur, she is also Director of the coordinating center of the National Reference Center for respiratory viruses, the WHO National Influenza Center (Northern-France) and the WHO H5 reference laboratory. Furthermore she is Director of the department of Infectiology-Microbiology of the Doctoral School Bio-Sorbonne Paris Cité.

Pr. van der Werf is a member of several professional bodies and societies: American Society of Microbiology, European Society of Clinical Microbiology and Infectious Diseases, International Society for Influenza and other Respiratory Viruses and the European Scientific Working group on Influenza. She is regularly requested to serve as an expert on various committees of international organizations such as the WHO and the ECDC.

Pr. van der Werf's research interests have been focused on respiratory viruses since 1996, particularly dealing with molecular epidemiology and molecular genetics aimed at the identification of determinants of influenza virus evolution, species specificity and sensitivity to antivirals. She is the author of over 160 scientific papers. She was awarded the Georges Zermatti price in 2006 and nominated "Chevalier de l'Ordre des Palmes Académiques" in 2009.



Pr Luca Guardabassi

One Health microbiologist specialised in antibiotic resistance and antibiotic therapy. He graduated in veterinary medicine at Pisa University in 1994 and obtained his PhD in microbiology at the Royal Veterinary and

Agricultural University in Denmark in 2000. Diplomate of the European College of Veterinary Public Health (ECVPH) since 2005, he is currently affiliated professor at the University of Copenhagen. His research focuses on any aspects

of antibiotic resistance, ranging from molecular epidemiology of resistant bacteria and resistance genes of clinical relevance to drug discovery. His publication record includes over 130 peer-reviewed articles and 6 book chapters. He is the founder and chair of the ESCMID Study Group of Veterinary Microbiology, founder and member of the Veterinary Committee for Antimicrobial Susceptibility Testing, and member of the One Health Committee of the World Small Animal Veterinary Association.



Dr Johanna Takkinen

Dr. Johanna Takkinen, DVM, is Head of programme Food- and Waterborne Diseases and Zoonoses in the European Centre for Disease Prevention and Control. Leading this programme since 2006, which covers over 20 bacterial, viral, parasitic and prion diseases, she has developed a deep interest to understand and explore the epidemiology of these diseases in EU/EEA, applying "One Health" approach. Dr. Takkinen has a special degree in food- and environmental hygiene from the Faculty of Veterinary Medicine at the University of Helsinki and a Master of Public Health from the Nordic School of Public Health (NHV) in Sweden in 2005. Dr. Takkinen was recognised *de facto* Diplomate for Food Science at the European College of Veterinary Public Health.

One Health - we are in this together - Viral and bacterial diseases/conditions at the animal-human interface

The connection between the environment, food, animals and humans with respect to human well-being, sustainable development and health is intuitive. The 'One Health' concept encompasses a multidisciplinary, holistic approach to sustain the health and well-being of humans and animals as well as their living environment.

One Health has gained increasing attention and importance in the past years owing to the continued growth of the world's population, predicted to be 9 billion by the year 2050, the opportunities and challenges of a technology-driven, interconnected world, as well as man-made and other changes in our environment that influence the emergence and re-emergence of communicable diseases and conditions.

Over 70% of infectious diseases are of zoonotic origin. These diseases cross the species barrier, and direct or indirect contacts between humans and animals may lead to outbreaks of (severe) diseases in humans, which has been exemplified during the emergence of Middle East respiratory syndrome (MERS), avian influenzas and the recent increase of listeriosis. To understand the drivers of their emergence and to prevent and control such diseases, adequate detection methods, surveillance, treatment and prevention measures including behavioural guidance based on an interdisciplinary approach, are required.

A strong link between animals, humans and the environment has also been established for antimicrobial resistance. Use of antimicrobials in animal husbandry has led to the emergence of various resistance mechanisms in pathogens such as *Escherichia coli* and *Salmonella* spp. with a transmission route that may also involve the environment. A pertinent recent example is the newly detected plasmid-mediated colistin resistance conveyed by *mcr-1* to *mcr-5* genes.

The seminar will focus on the interplay of changes in pathogens in animals on the one hand and outbreaks or spread of resistant pathogens in humans on the other. After an introduction by Dr Johanna Takkinen, Professor Sylvie van der Werf will talk about viral zoonotic diseases and point out intrinsic and extrinsic factors influencing the dynamics of spillover from animals to humans. Professor Luca Guardabassi will then speak about the need for antimicrobial stewardship in animals and highlight the possible role of companion animals in the direct transmission of resistant pathogens to humans resulting from their close physical contact.

There will be room for discussion and we encourage the audience to comment and share views.

About us

Eurosurveillance is a European peer-reviewed scientific journal devoted to the epidemiology, surveillance, prevention and control of communicable diseases, with a focus on topics relevant to Europe. The entire content is open access and free of charge for both readers and authors.

Eurosurveillance is listed in the Directory of Open Access Journals (DOAJ) and features in the Sherpa/Romeo database as a journal that complies with the open access standards required by funders such as the Wellcome Trust. All articles are indexed in the PubMed/MEDLINE, PubMed Central, Scopus, EMBASE, EBSCO, among other databases. The journal's current impact factor, or the year 2016, is 7.2 (Journal Citation Reports, Thomson Reuters, 2017). The journal is in the first quarter (Q1) in the Scopus-based SCImago Journal Rank (SJR) for the categories Medicine, Epidemiology, Public Health, Environmental and Occupational Health and Virology. Google Scholar metrics listed *Eurosurveillance* at ranks 5 and 13 in Epidemiology and Communicable Diseases in mid-2016.

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Eurosurveillance



Sixth scientific seminar

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