CONFERENCE PROGRAMME

Updated 19 September 2016

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CONFERENCE PROGRAMME

MONDAY 26 SEPTEMBER 2016

10:00 Conference opening

10:15 KEYNOTE LECTURE
Superbugs attack! How the world can win the war on antimicrobial resistance
Dr. Steven J. Hoffman, Director – Global Strategy Lab at the University of Ottawa, Canada

PLENARY MEETING: ANTIBIOTIC USE AND RESISTANCE: CROSS-CUTTING THEMES

Chairs: Prof.dr. Peter Borriello, Veterinary Medicines Directorate, UK
Dr. Timothy Robinson, International Livestock Research Institute, Kenya

10:45 Modelling the distribution of intensifying livestock production systems
Dr. Marius Gilbert, Spatial Epidemiology Lab, Université libre de Bruxelles, Belgium

11:10 Mapping the global use of antimicrobials in food animals
Dr. Thomas P. Van Boeckel, Department of Environmental Systems Science, ETH Zurich, Switzerland

11:35 Moving beyond the classic foodborne pathogens to quantify the total public health burden of using antibiotics in food animals
Prof.dr. Lance B. Price, Milken Institute School of Public Health, The George Washington University, USA

12:00 Resistance from food to humans: a multidimensional problem
Prof.dr. Jan Kluytmans, University Medical Center Utrecht and Amphia Hospital, the Netherlands

12:30 Lunch break

PLENARY MEETING: GLOBAL APPROACHES TO RESPONSIBLE USE OF ANTIBIOTICS

Chairs: Prof.dr. Peter Borriello, Veterinary Medicines Directorate, UK
Prof.dr. Jan Kluytmans, University Medical Center Utrecht, the Netherlands

13:30 Collection of data on the use of antimicrobial in animals: an important tool to develop a policy for responsible use
Dr. Jean-Pierre Orand, Director, The French Agency for Veterinary Medicinal Products/The French Agency for Food, Environmental and Occupational Health & Safety (ANMV/ANSES), France

13:55 Unpacking factors influencing antimicrobial use in global aquaculture
Dr. Patrik J.G. Henriksson, Stockholm Resilience Centre, Sweden and WorldFish, Malaysia

14:20 Antimicrobial resistance: exploring the human animal link! Perspectives from the Latin American Caribbean region
Prof.dr. H. Morgan Scott, Department of Veterinary Pathobiology, Texas A&M University, on behalf of PAHO Foundation, USA

14:45 Working together: Australia’s response to antimicrobial resistance
Dr. Mark Schipp, Chief Veterinary Officer, Department of Agriculture and Water Resources, Australia

15:10 Antimicrobial resistance transmission between animal and human; what we can do from now?
Prof.dr. Yong Ho Park, College of Veterinary Medicine, Seoul National University, Korea

15:35 Transatlantic Taskforce on Antimicrobial Resistance (TATFAR), collaboration in veterinary medicine
Jordi Torren Edo, Veterinary Medicines Department, European Medicines Agency, UK

16:00 Networking break
MONDAY 26 SEPTEMBER 2016

PLENARY MEETING: ANTIBIOTIC USE AND RESISTANCE – CASE STUDIES FROM DEVELOPING COUNTRIES

Chair: Dr. Timothy Robinson, **International Livestock Research Institute, Kenya**
Dr. Delia Grace, **International Livestock Research Institute, Kenya**

16:30 Chair’s introduction

16:40 Development and migration of antimicrobial resistance in livestock in China
Dr. Dengpan Bu, **Institute of Animal Science, Chinese Academy of Agricultural Sciences (CAAS), China**

17:00 Antibiotic use in small holder peri-urban dairy farms in India: sowing ignorance, reaping resistance
Dr. Manish Kakkar, **Public Health Foundation of India, India**

17:20 A veterinary intervention to reduce antimicrobial usage in chicken production in Vietnam (ViParc programme)
Dr. Juan J. Carrique-Mas, **Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Vietnam**

17:40 Multiresistant *E. coli* in small vs. large scale pig farms in North Eastern Thailand
Dr. Jatesada Jiwakanon, **Faculty of Medicine, Khon Kaen University, Thailand**

18:00 Antimicrobial resistance along the meat value chain in Kenya
Prof.dr. Samuel M. Kariuki, **Kenya Medical Research Institute, Kenya**

18:20 Chair’s summary

18:30 – 19:30 Lounge party
TUESDAY 27 SEPTEMBER 2016

PARALLEL SESSION 1: NATIONAL APPROACHES TO ANTIBIOTIC USE AND RESISTANCE – FOCUS ON EU AND USA

Chairs: Dr. Cristina Muñoz Madero, Spanish Agency of Medicines and Medical Devices, Spain
Dr. Rick Sibbel, Merck Animal Health, USA

08:30 Update on the U.S. National Action Plan to Combat Antibiotic-Resistant Bacteria
Dr. Thomas R. Shryock, Antimicrobial Consultants, USA

08:50 Implementation of the Veterinary Feed Directive in the USA: issues and impacts
Dr. Jeffrey L. Watts, Zoetis, USA

09:10 The CVMP Strategy on Antimicrobials 2016 to 2020 – an EU regulatory perspective
Dr. Helen Jukes, Veterinary Medicines Directorate, UK

09:30 Organic farming and antimicrobial resistance in Germany – the example of E. coli in dairy herds
Dr. Bernd-Alois Tenhagen, Department Biological Safety, Federal Institute for Risk Assessment, Germany

Case studies from the USA

09:50 Strategies in U.S. Veterinary Medicine for antibiotic use and surveillance of antibiotic resistance
Dr. Rick Sibbel, Merck Animal Health, USA

10:10 Incentivising R&D for new antimicrobial drugs and non-antibiotic alternatives
Dr. Stacy Sneeringer, Structure, Technology, and Productivity Branch, Economic Research Service, U.S. Department of Agriculture, USA

10:30 Environmental, economic, and animal health implications from antibiotic-free production of broilers in the U.S.
Dr. Matthew J. Salois, Elanco Animal Health, USA

10:50 Networking break

Measures taken in the EU to reduce the need for and the use of antibiotics in animal husbandry

11:15 Actions promoting prudent use of antibiotics in Spain: One Health approach
Dr. Antonio Lopez, Spanish Agency of Medicines and Medical Devices (AEMPS), Spain

11:35 The French action plan to reduce the risk of antimicrobial resistance in veterinary medicine: a global collective and voluntary approach
Dr. Jean-Pierre Orand, The French Agency for Veterinary Medicinal Products/The French Agency for Food, Environmental and Occupational Health & Safety (ANMV/ANSES), France

11:55 Evolution of antimicrobial use and resistance in animals in Belgium
Dr. Bénédicte Gallens & Wannes Vanderhaeghen, Center of Expertise on Antimicrobial Consumption and Resistance in Animals (AMCRA), Belgium

12:15 The effect of reduced use of antibiotics on resistance levels and next steps in achieving responsible use of antibiotics in livestock
Dr. Hetty van Beers-Schreurs, The Netherlands Veterinary Medicines Authority (SDa), the Netherlands

12:35 Antimicrobial resistance and use, the Danish experience
Dr. Elisabeth Okholm Nielsen, Animal Welfare and Veterinary Medicine Division, Danish Veterinary and Food Administration, Denmark

13:00 Lunch break
TUESDAY 27 SEPTEMBER 2016

PARALLEL SESSION 2: IMPORTANCE AND RELEVANCE OF ANIMAL INTESTINAL AND RESPIRATORY HEALTH

Chairs: Dr. Arie K. Kies, DSM Nutritional Products and Wageningen University & Research, the Netherlands
Dr. C. Stephen Roney, College of Veterinary Medicine, The University of Georgia, USA

08:30 Chair’s introduction

08:40 Microbial colonisation is essential for the development of the gut immune system in chickens
Prof. dr. Bernd Kaspers Department of Veterinary Sciences, LMU Munich, Germany

09:05 Antibiotic usage during early life perturbs gut development in pigs
Dr. Dirkjan Schokker, Animal Sciences Group, Wageningen Wageningen University & Research, the Netherlands

09:30 Antibiotic therapy in poultry: friend or foe to the gastrointestinal tract?
Dr. C. Stephen Roney, College of Veterinary Medicine, The University of Georgia, USA

09:55 Modulating the gut flora to reduce antibiotic usage in livestock
Prof. dr. Roberto Marcello La Ragione, Veterinary Pathology Centre and Department of Pathology and Infectious Diseases, University of Surrey, UK

10:20 Factors affecting the gastro-intestinal microbial balance and the impact on the health status of pigs
Dr. Paolo Trevisi, Department of Agricultural and Food Sciences, University of Bologna, Italy

10:45 Networking break

11:15 Proteolytic fermentation and the effects on intestinal health in broilers
Francois J. Nell, M.Sc., Animal Nutrition and Health, DSM Nutritional Products and Department of Animal Sciences, Wageningen Wageningen University & Research, the Netherlands

11:40 ResPig: impact of a structural respiratory health approach on antibiotic use
Victor Geurts, M.Sc., MSD-AH Intervet, the Netherlands

12:05 The nutritional costs of the immune response in pigs
Dr. Elodie Merlot, Physiology of Adaptation, Animal Nutrition and Health, INRA/Agrocampus Ouest (PEGASE), France

12:30 Costs of broiler and fattening pig diseases, with reference to antimicrobials
Dr. Helmut Saatkamp, Business Economics Group, Department of Social Sciences, Wageningen Wageningen University & Research, the Netherlands

12:55 Chair’s summary

13:00 Lunch break
TUESDAY 27 SEPTEMBER 2016

PARALLEL SESSION 3: THE STAKEHOLDERS’ VIEW ON ANTIBIOTIC USE AND RESISTANCE

Chairs: Peter J.G. Oostenbach, M.Sc., MSD Animal Health, the Netherlands
       Dr. Stephen Page, Advanced Veterinary Therapeutics, Australia

14:00 Veterinary antibiotics: a perspective on usage, innovation incentives and effective policies
       Carel du Marchie Sarvaas, Executive Director, HealthforAnimals (Global Animal Medicines Association)

14:20 Stewardship through sound science – the role of the veterinarian
       John M. Blackwell, Past president British Veterinary Association, on behalf of the
       World Veterinary Association (WVA)

14:40 Possible measures to reduce antimicrobial use in livestock and fish: a veterinary perspective
       Nancy De Briyne, Deputy Executive Director, Federation of Veterinarians of Europe (FVE)

15:00 Reducing the need for antibiotics through animal nutrition
       Predrag Peršak, Chairman of the Animal Nutrition Committee, European Feed Manufacturers’ Federation (FEFAC)

15:20 The links between animal health, welfare and antibiotics use from a public health perspective
       Sascha Marschang, Policy Manager for Health Systems, European Public Health Alliance (EPHA)

15:40 Public health points of view regarding antibiotic resistance
       Dr. Aura Timen, President of the Section Infectious Disease Control, European Public Health Association (EUPHA)

16:00 Networking break

16:50 The future of broiler breeding in an ever-changing world
       Dr. Mitchell Abrahamsen, Senior Vice President R&D, Cobb-Vantress, USA

16:30 Interventional genomics for the prevention of antibiotic resistance
       Prof.dr. Alex Friedrich, Medical Microbiology and Infection Prevention, University Medical Center Groningen, the Netherlands

17:10 Animal production without any antimicrobials: potential scenario or license for euthanasia?
       Prof.dr. Jaap Wagenaar, Department of Infectious Diseases and Immunology, Utrecht University, the Netherlands

17:30 Panel discussion

18:15 – 19:00 Poster viewing & drinks

20:00 – 22:15 Conference dinner
TUESDAY 27 SEPTEMBER 2016

PARALLEL SESSION 4: ONGOING RESEARCH TO CONTROL ANTIBIOTIC USE AND RESISTANCE

Chairs: Dr. Thomas R. Shryock, Antimicrobial Consultants, USA
          Prof.dr. Peter Silley, MB Consult Limited and University of Bradford, UK

14:00 A rapid procedure of PCR and a microarray lateral flow test for detection of antibiotic resistance genes
Dr. Aart van Amerongen, BioSensing & Diagnostics, Wageningen Wageningen University & Research, the Netherlands

14:20 Host defence peptides: natural anti-infectives?
Prof.dr. Henk Haagsman, Department of Infectious Diseases and Immunology, Utrecht University, the Netherlands

14:40 Unlocking the medieval medicine cabinet to help fight antimicrobial resistance
Dr. Stephen Diggle, Centre for Biomolecular Sciences, University of Nottingham, UK

15:00 Disarming pathogens: an evolution-proof approach to manage infections?
Dr. Rolf Kümerli, Department of Plant and Microbial Biology, University of Zürich, Switzerland

15:20 Human contact with dogs and the risk of carriage of antimicrobial resistant E. coli
Emma Ormandy, Institute of Infection and Global Health, University of Liverpool, UK

15:35 The influence of farm-specific characteristics and production management on antibiotic usage in conventional broilers
Tommy Van Limbergen, Department of Obstetrics, reproduction and herd health, Ghent University, Belgium

15:50 Impact of facilitated structural animal health management on antimicrobial use and animal health parameters in Dutch dairy farming.
David Speksnijder, Department of Infectious Diseases and Immunology, Utrecht University and Veterinary Clinic Tweestromenland, the Netherlands

16:05 Networking break

Focus on the environment

16:30 Antibiotic resistance in aquatic environments: from the evidences to the mitigation measures
Dr. Célia Manaia, Centre for Biotechnology and Fine Chemistry, Catholic University of Portugal, Portugal

16:55 Does application of antibiotic molecules to farm soil significantly increase resistance genes abundance?
Dr. Pascal Simonet, Environmental Microbial Genomics Group, École Centrale de Lyon, France

17:20 Antibiotics in aquaculture: facts and alternatives
Dr. Igor Hernández, Food Research Division, AZTI-Tecnalia, Spain

17:45 Selection for, dissemination of and exposure to antibiotic resistant bacteria in the natural environment
Dr. William H. Gaze, European Centre for Environment and Human Health, University of Exeter Medical School, University of Exeter, UK

18:15 – 19:00 Poster viewing & drinks

20:00 – 22:15 Conference dinner
WEDNESDAY 28 SEPTEMBER 2016

PLENARY MEETING: TOWARDS A GLOBAL APPROACH TO VETERINARY ANTIMICROBIAL STEWARDSHIP

Chairs: Prof.dr. John F. Prescott, University of Guelph, Canada
Dr. Stephen Page, Advanced Veterinary Therapeutics, Australia

08:45 Introduction to veterinary antimicrobial stewardship
Prof.dr. John F. Prescott, Department of Pathobiology, University of Guelph, Canada

09:00 Antimicrobial stewardship in healthcare in Scotland – key success factors
Dr. Jacqueline Sneddon, Healthcare Improvement Scotland, UK

09:25 Antimicrobial stewardship in livestock: principles and practice
Prof.dr. Guy H. Loneragan, Department of Animal and Food Sciences, Texas Tech University, USA

09:50 Antimicrobial stewardship in livestock: experiences in dairy practice
Dr. Andy Millar, Purata Farming Ltd., New Zealand

10:15 Antimicrobial stewardship in companion animal practice: a pilot programme in Canberra, Australia
Dr. Alison Taylor, Kippax Veterinary Hospital, Australia

10:40 Developing a global veterinary antimicrobial stewardship support programme
Dr. Stephen Page, Advanced Veterinary Therapeutics, Australia

11:00 Networking break

FINAL PLENARY MEETING: WHERE DO WE GO FROM HERE?

Chairs: Prof.dr. Peter Borriello, Veterinary Medicines Directorate, UK
Prof.dr. Jan Kluytmans, University Medical Center Utrecht, the Netherlands

11:30 The global response to antimicrobial resistance
Prof.dr. Mark Woolhouse, Centre for Immunity, Infection & Evolution and Usher Institute of Population Health Sciences & Informatics, University of Edinburgh, UK

11:50 One Health; bridging the gap between surveillance and stewardship
Dr. Luke Moore, Department of Medicine, Imperial College London, UK

12:15 Panel discussion: Conclusions and path forward
During this three-day conference the present and future of antibiotic use and resistance have been discussed from different viewpoints. Has the path forward become clearer? What are the ‘take-home’ messages? After a brief introduction by the moderators, questions from the participants will be answered.

Moderators:
Prof.dr. Peter Borriello, Veterinary Medicines Directorate, UK
Prof.dr. Jan Kluytmans, University Medical Center Utrecht, the Netherlands

Panel members:
Dr. Arie K. Kies, DSM Nutritional Products and Wageningen University & Research, the Netherlands
Dr. Delia Grace, International Livestock Research Institute, Kenya
Dr. Cristina Muñoz Madero, Spanish Agency of Medicines and Medical Devices, Spain
Peter J.G. Oostenbach, M.Sc., MSD Animal Health, the Netherlands
Dr. Stephen Page, Advanced Veterinary Therapeutics, Australia
Dr. Thomas R. Shryock, Antimicrobial Consultants, USA
Prof.dr. Peter Silley, MB Consult Limited and University of Bradford, UK

13:00 End of conference