CONFERENCE PROGRAMME

Updated 15 April 2016

4TH INTERNATIONAL CONFERENCE ON
Responsible Use of Antibiotics in Animals
26-28 SEPTEMBER
2016 THE HAUGE
THE NETHERLANDS

www.ResponsibleAntibioticUse.org
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, Biological Control and Spatial Ecology, Université libre de Bruxelles, Belgium

11:05 Mapping the global use of antimicrobials in food animals
Dr. Thomas P. Van Boeckel, Department of Environmental Systems Science, ETH Zurich, Switzerland / Department of Ecology and Evolutionary Biology, Princeton University, USA

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, Department of Environmental and Occupational Health, The George Washington University, USA

12:00 Resistance from food to humans: a multidimensional problem
Prof.dr. Jan Kluytmans, Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, 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 speaker to be confirmed

13:55 Building a global agreement on the responsible use of antibiotics in animals
William Hall, Senior Policy Advisor – Review on Antimicrobial Resistance, UK

14:20 Antimicrobial resistance: exploring the human animal link! Perspectives from the Latin American Caribbean region
Dr. Jennie Ward-Robinson, President and CEO, 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 Asian strategies against transmission of antibiotic-resistant microorganisms between animals and humans
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, *Department of Medicine, Khon Kaen University, Thailand*

18:00 Epidemiology and genomics of antimicrobial resistance in key bacterial pathogens of human and livestock importance in Kenya
  Prof.dr. Samuel M. Kariuki, *Kenya Medical Research Institute, Kenya*

18:20 Chair’s summary

18:30 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, The Spanish Agency of Medicines and Medical Devices, Spain
Prof.dr. Mark G. Papich, North Carolina State University, 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  Evaluation of the EU Action plan against the rising threats from Antimicrobial Resistance
speaker to be confirmed

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, The Spanish Agency of Medicines and Medical Devices (AEMPS), Spain

11:35  The French national 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  Antimicrobial consumption and resistance in animals: the Belgian approach
Ms. Bénédicte Callens, Center of Expertise on Antimicrobial Consumption and Resistance in Animals (AMCRA), Belgium

12:15  Results of the public/private approach to reduce antimicrobial resistance in production animals in the Netherlands, what's the next step?
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 UR, the Netherlands
Dr. Miliane M.S. Souza, Universidade Federal Rural do Rio de Janeiro, Brazil

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, Institute for Animal Physiology, Ludwig-Maximilians-Universität München, Germany

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

09:30 Antibiotic therapy in poultry: friend or foe to the gastrointestinal tract?
Dr. C. Stephen Roney, College of Veterinary Medicine, 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, Switzerland and Animal Nutrition, Wageningen UR, the Netherlands

11:40 ResPig: impact of a structural respiratory health approach on antibiotic use
Victor Geurts, M.Sc., MSD Animal Health, 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 UR, 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 Reducing the need for antibiotics through animal nutrition
Predrag Persak, Chairman of the Animal Nutrition Committee, European Feed Manufacturers’ Federation (FEFAC)

15:00 speaker to be confirmed

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, Faculty of Medical Sciences, University Medical Center Utrecht, 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 Poster viewing & drinks

20:30 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 UR, 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. Steve Diggle, Centre for Biomolecular Sciences, University of Nottingham, UK

15:00 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

15:15 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

15:30 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

15:45 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

16:00 Networking break

Focus on the environment

16:30 Antibiotic resistance in aquatic environments: from the evidences to the mitigation measures
Dr. Célia Manaia, Faculty of Biotechnology, Portuguese Catholic University, Portugal

16:55 The soil resistome, antibiotic resistance genes, and transfer to human and animal pathogens
Dr. Pascal Simonet, Environmental Microbial Genomics Group, École Centrale de Lyon, France

17:20 Antibiotic resistance in the environment: inferences, challenges and data gaps
Dr. Randall S. Singer, College of Veterinary Medicine, University of Minnesota, USA

17:45 Unpacking factors influencing antimicrobial use in global aquaculture
Dr. Patrik J.G. Henriksson, Beijer Institute of Ecological Economics, The Royal Swedish Academy of Science, Sweden

18:15 Poster viewing & drinks

20:30 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

08:30 Introduction to veterinary antimicrobial stewardship
Prof. dr. John F. Prescott, Ontario Veterinary College, University of Guelph, Canada

08:45 Antimicrobial stewardship in healthcare in Scotland – key success factors
Dr. Jaqueline Sneddon, Scottish Medicines Consortium, UK

09:05 Antimicrobial stewardship in livestock: principles and practice
Prof. dr. Guy H. Loneragan, Department of Animal and Food Sciences, Texas Tech University, USA

09:25 Antimicrobial stewardship in livestock: experiences in dairy practice
Dr. Andy Millar, Purata, New Zealand

09:45 Antimicrobial prescribing in the real world of companion animal practice: challenges and recommendations
Prof. dr. Jill Maddison, Department Clinical Sciences and Services, The Royal Veterinary College, UK

10:05 Antimicrobial stewardship in companion animal practice: a pilot programme in Canberra, Australia
Dr. Alison Taylor, Kippax Veterinary Hospital, Australia

10:25 Developing a global veterinary antimicrobial stewardship support programme
Dr. Stephen Page, Advanced Veterinary Therapeutics, Australia

10:45 Networking break

FINAL PLENARY MEETING: WHERE DO WE GO FROM HERE?

11:15 The economic costs of withdrawing antimicrobial growth promoters from the livestock sector
Dr. Ramanan Laxminarayan, Director, The Center for Disease Dynamics, Economics & Policy (CDDEP), USA

11:35 One Health; bridging the gap between surveillance and stewardship
Dr. Luke Moore, Department of Medicine, Imperial College London, UK

12:00 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 and Wageningen UR, the Netherlands
Dr. Delia Grace International Livestock Research Institute, Kenya
Dr. Cristina Muñoz Madero The 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
Prof. dr. Mark G. Papich North Carolina State University, USA
Prof. dr. Peter Silley MB Consult Limited and University of Bradford, UK

13:00 End of conference