

Topics Wednesday March 30th, 2022	Speaker	Time
Registration		8:00
Welcome and Introduction	Filip Van Immerseel (Ghent University, Belgium) and Maarten De Gussem (Vetworks, Belgium)	9:00
Animal welfare issues related to intestinal health, an essential component in modern chicken production	Andrew Butterworth (University of Bristol, UK)	9:15
Coffee Break		10:00
Session I: INTESTINAL MICROBIOTA	Chairman: Filip Van Immerseel (Ghent University)	
Intestinal dysbiosis and what it means to the host	Andreas Bäumlér (University of California Davis, United States)	10:45
Berberrubine, a berberine-derived metabolite, is produced by the gut microbiota and improves broiler gut health	Tessa Dehau (Ghent University, Belgium)	11:30
Limited microbiota overlap between heavy breeders and their specific progeny	Erez Mills (Hebrew University of Jerusalem, Israel)	11:45

Intestinal microbiota and gene expression of tight junction proteins in broiler chickens fed different methionine sources	Martina Klünemann (Evonik)	12:00
β -mannanase feed supplementation improves broilers performance and gut microbiome in guar gum-diet fed broilers	Marielen de Souza (Universidade Estadual de Londrina, Brazil)	12:15
Lunch		12:30
Session II: VACCINES AND INTESTINAL IMMUNITY	Chairman: Doug Korver (University of Alberta, Canada)	
Approaches to stimulate mucosal immunity in the intestinal tract of chickens	Michael Kogut (United States Department of Agriculture, United States)	13:45
Early Life Feeding of Spray-Dried Plasma Improved Intestinal Development, Immunity and Performance of Broilers Irrespective of Added Mycotoxins in Feed	Gabriele Gomez Verduzco (APC Proteins)	14:30
Fructans affects mRNA expression of pro-inflammatory, antiviral, and antibacterial innate immunity genes on chicken macrophages	Santiago Uribe-Diaz (University of Prince Edward Island, Canada)	14:45

Effect of yeast cell wall on modulation of immune response in aflatoxin-challenged broilers	Melinda Bonato (ICC)	15:00
$\gamma\delta$ T cells in the physiopathology of the infection by <i>E. tenella</i> : influence of the microbiota	Guillaume Sadrin (INRAE, France)	15:15
Coffee Break		15:30
Session III: HOST-PATHOGEN INTERACTIONS AND PATHOGENESIS OF DISEASE	Chairman: Antonio J. Piantino Ferreira (University of São Paulo, Brazil)	
C. perfringens virulence factors along the road to necrotic enteritis in chickens	Evy Goossens (Ghent University, Belgium)	16:15
Characteristics of Clostridium perfringens strains isolated from diseased slow growing broilers, layers and breeders	Monita Vereecken (Huvepharma)	17:00
Can broiler resilience against necrotic enteritis be affected by perinatal conditions?	Jan Wijnen (Wageningen University and HatchTech, The Netherlands)	17:15
BCO-related <i>Enterococcus cecorum</i> isolates are genetically distinct from the commensal population and are more virulent in an embryo mortality model	Yue Huang (Ghent University, Belgium)	17:30

Systemic load of Enterococcus cecorum after oral infection of day-old broilers	Joren De Smet (Poulpharm)	17:45
Conference cocktail drink		18:30
Topics Thursday March 31st, 2022	Speaker	Time
The intestinal virome and how viruses affect intestinal health	Antonio J. Piantino Ferreira (University of São Paulo, Brazil)	8:30
Speed Date: a variety of 3-minute short communication teasers	Various authors	9:15
Coffee Break		10:15
Session IV: IN VITRO AND IN VIVO MODELS TO STUDY GUT HEALTH	Chairman: Richard Ducatelle (Ghent University, Belgium)	
Extrapolating data from in vitro to in vivo, and the transition of animal trial data to field observations	Doug Korver (University of Alberta, Canada)	11:00
The use of a variety of challenges to induce gut dysbiosis in broiler chicken	Alberto Navarro-Villa (Trouw Nutrition, Spain)	11:45

The effect of prebiotic carbohydrates on the cecal microbial composition and metabolites in an in-vitro model for broilers with impaired gut health	Miriam Oost (Maastricht University, The Netherlands)	12:00
Evaluation of three formulations of essential oils in broiler chickens under cyclic heat stress	Guillermo Tellez-Isaias (University of Arkansas)	12:15
Growth promotion and alleviation of chronic intestinal inflammation and oxidative stress by an in-feed technology in broilers under a dietary challenge in real farming conditions	Christos Gougoulas (Innovad)	12:30
Lunch		12:45
Speed Date: a variety of 3-minute short communication teasers	Various authors	14:00
Session V: PARASITIC AND VIRAL DISEASES OF POULTRY	Chairman: Maarten De Gussem (Vetworks, Poulpharm)	
Vaccination against coccidiosis: Experience and challenges	Mark Jenkins (Agricultural Research Service, U.S.)	15:00
Treatment incidence for coccidiosis in broilers on different anticoccidial control programs in field conditions	Ben Dehaeck (Huvepharma)	15:45

Regional anticoccidial sensitivity test with 27 European Eimeria field isolates from farms using anticoccidial medication or coccidiosis vaccination to narasin + nicarbazin	Yun-Ting Wang (MSD Animal Health)	16:00
Novel molecular tools for coccidiosis research, practical applications	Tessa Gryp (Poulpharm)	16:15
Speed Date: a variety of 3-minute short communication teasers	Various authors	16:30
Conference gala dinner		20:00
Topics Friday April 1st, 2022		
Session VI: DIETARY ADDITIVES TO CONTROL GUT HEALTH	Chairman: Richard Ducatelle (Ghent University, Belgium)	
Reducing antimicrobial usage in broilers and effects on consumer perception, animal health and welfare, and economics	Randall Singer (University of Minnesota, United States)	08:30

Effect of dietary soy galactooligosaccharides on gastrointestinal health and performance of growing chickens	Simone Rasmussen (Hamlet Protein)	9:15
Hydroxy-selenomethionine improves selenium status and can support gut functions in broilers exposed to high temperature	Wanderley Moreno Quinteiro Filho (Adisseo)	9:27
Interaction of hatching systems and starter feeding strategies	Rosa Franco Rosselló (Trouw Nutrition)	9:39
A precision biotic that redirects core metabolic pathways of the microbiome leads to improved resilience to enteric dysbiosis and inflammation	Cristiano Bortoluzzi (DSM)	9:51
Lysozyme as contributor to gut health: mechanisms of action	Maarten De Gussem (Poulpharm)	12:00
Coffee Break		10:15
Algal polysaccharides to improve gut barrier function	Maria Garcia (Olmix)	11:00
The Effect of Direct Fed Microbials and Xylanase combination on performance and gut health of broilers fed with reduced energy sorghum-based diet	(Amy Lin Yun-mei, BRI)	11:12

Effect of pronutrients (botanic molecules) on intestinal integrity and performance in broilers that receive a diet with raw soybean	Alejandra Ruiz (Universidad Nacional de Colombia)	11:24
Better together, selecting a new multi-strain probiotic for a broader target range	Natasja Smeets (Kemin)	11:36
Investigation of the metabolite profile of Bacillus subtilis DSM 29784 and its activity for broiler chickens	Damien Preveraud (Adisseo)	11:48
Field Evaluation of a Probiotic Growth Promoter its Impact on Intestinal Health and Productive Parameters	Eduardo Castro (Alimentos Concentrados de Caribe ACONDESA)	12:00
Mycotoxin control in antibiotic reduction scenarios. Challenging broilers with AFB1 and OTA, interactions of an AGP and an anti-mycotoxin product.	Guillermo Ganona Ramirez (EW Nutrition)	12:12
Intestinal Health: Recent Updates and New Approaches on Field Necropsy Examination in the US - virtual presentation	Jaime Ruiz (Elanco)	12:24
CONCLUSION, INNOVATION AWARD & CLOSING		12:36