

AAAP

Symposium & Scientific Program

THE AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS

promotes scientific knowledge to enhance the health, well-being, and productivity of poultry to provide safe and abundant food for the world.



Denver, CO
July 13-17, 2018

Advances in the Management of Enteric Health in Poultry
Friday, July 13, 2018 (8:00AM – 12:00PM)

8:00- 8:05 AM

Introduction & Welcome

Moderator

Advances in poultry intestinal health, integrity and microbial ecology

8:05- 8:45 AM

Healthy Intestine and the Role of the Microbiota - AAAP Poultry Symposium

Dr. Margie Lee, *University of Georgia*

8:45- 9:25 AM

Gut Immunity: What are the Keys to Protection?

Dr. Christopher Chase, *South Dakota State University*

9:25- 10:05 AM

An Overview of the Current Status of Direct Fed Microbials, Yeast Preparations and Nutritional-Based Intestinal Health Interventions.

Dr. Steve Collett, *University of Georgia*

10:05- 10:30 AM

Break

Moderator

Advancements in managing enteric problems and monitoring intestinal health in poultry production as antibiotic usage declines

10:30- 11:00 AM

Global Overview of the Use and Effectiveness of Botanicals in Enteric Health

Dr. Santiago Ramirez, *FCR Consulting Group*

11:00 AM - 11:30 AM

Current Enteric Disease Management Strategies in Turkeys

Dr. Kabel Robbins, *Butterball Turkeys*

11:30 AM - 12:00 PM

Current Enteric Disease Management Strategies in Broilers

Dr. David French, *Sanderson Farms, Inc.*

12:00 PM

Adjourn

Saturday, July 14, 2018

8:00 AM	Opening Session: John Smith, AAAP President	
8:30 AM	Keynote Speaker: Haroldo Toro Understanding the Success of Infectious Bronchitis Virus	
	Room Four Seasons 1	Room Four Seasons 2-3
Topic	Management	Bacteriology
Moderator		
9:00 AM	An Investigation of Variables Associated with Reduced Livability in a Broiler Complex in Mississippi Leslie Johnson, <i>Mississippi State University CVM Poultry Research and Diagnostic Lab</i>	Characterization of E. coli Isolates from Clinical Cases in the US Commercial Layer Industry Roxana Sanchez Ingunza, <i>CEVA Animal Health</i>
9:15 AM	What are you doing to day-old turkeys? Ben Wileman, <i>Select Genetics</i>	Avian pathogenic E. coli levels across the US broiler and turkey industries. Daniel Karunakaran, <i>Arm and Hammer Animal Nutrition</i>
9:30 AM	Necrotic Enteritis and the Causal Pie Joel Cline, <i>Wayne Farms LLC</i>	Studies on Clostridial Dermatitis, a Disease of Economic Concern in Turkeys Muhammad Nisar, <i>University of Minnesota</i>
9:45 AM	Using decision analysis to determine quarantine times for international travel Donna Carver, <i>North Carolina State University</i>	Evaluation of Environmental and Tissue Microbiota using 16s Metagenomics Analysis for Understanding the Etiology behind Turkey Cellulitis Yuko Sato, <i>Iowa State University</i>
10:00 AM	Compartmentalization: Primary Breeders Achieve First U.S. Avian Influenza Clean Compartment Elena Behnke, <i>Aviagen Inc.</i>	Ulcerative Duodenitis Secondary To Clostridium Perfringens: A New Disease In ABF And Organic Broilers? Geoffrey Lossie, <i>Miller Poultry</i>
10:15 AM	Break	
Topic	Reovirus	
10:30 AM	Reovirus Pathogenesis in Broiler Chickens Post In Ovo Infection Milos Markis, <i>AviServe LLC</i>	Genotyping and phylogenetic analysis of Ornithobacterium rhinotracheale isolates from Peru Morales-Erasto Vladimir, <i>Universidad Autónoma del Estado de México</i>
10:45 AM	Reovirus Variant D As The Cause Of Severe Lameness In Ontario Broilers In 2017 Emily Martin, <i>Animal Health Lab University of Guelph</i>	Overview of an Outbreak of Infectious Coryza in California in 2017 Manuela Crispo, <i>UC Davis CAHFS</i>
11:00 AM	Whole Genome Sequencing - A Key To Solve The Problem Of Re-emerging Turkey Arthritis Reovirus Pawan Kumar, <i>University of Minnesota</i>	A survey of enterococcal and bacterial spondylitis in broiler chickens and review of pathogenesis Heidi Rose, <i>MVRDL</i>
11:15 AM	High-resolution Linear Epitope Mapping of B-cell Responses Following Immunization with Avian Reovirus S1133 William Dawe, <i>University of Georgia</i>	Microbiome In The Upper And Lower Respiratory Tract And Standardization Of Sample Collection Methods In Clinically Healthy Chicken Layers Michael Abundo, <i>The Ohio State University</i>
11:30 AM	Genetic Characterization of Turkey Reoviruses from clinical cases of tenosynovitis in South Dakota Luke Baldwin, <i>University of Georgia</i>	Reducing Microbial Load On Hatching Eggs Using A Dry Hydrogen Peroxide Gas System Julia McElreath, <i>University of Georgia</i>
11:45 AM	Molecular Characterization of Emerging Avian Reovirus Variants Isolated from Viral Arthritis cases in Western Canada Victor Palomino-Tapia, <i>University of Calgary</i>	Bacterial composition of in ovo broilers. Daniel Karunakaran, <i>Arm and Hammer Animal Nutrition</i>
12:00 AM	Lunch Break	

Room Four Seasons 1		Room Four Seasons 2-3
Topic	Antimicrobial	Mycoplasma
Moderator		
8:00 AM	The Prevalence Of Methicillin Resistant Staphylococcus Aureus In Pennsylvania Poultry Meat Donna Kelly, <i>UPSVM PADLS-New Bolton Center</i>	Update On MG Control In Multi-age Commercial Laying Operations: Diagnostic Approaches And Control Programs Daniel Wilson, <i>Wilson Veterinary Co.</i>
8:15 AM	Effect of an organic acids based feed additive and enrofloxacin on the prevalence of antibiotic-resistant E. coli in cecum of broilers Eduardo Vicuna, <i>BIOMIN America Inc.</i>	Incidence and epidemiology of Mycoplasma gallisepticum infection in turkeys over 20 years in one commercial company H Shivaprasad, <i>University of California Davis</i>
8:30 AM	Pen Trial to Evaluate Effects of Necrotic Enteritis Disease Prevention Antibiotics on Antimicrobial Resistance in Broiler Litter Randall Singer, <i>University of Minnesota</i>	Development of Multilocus sequence typing (MLST) for Mycoplasma gallisepticum Mohamed El-Gazzar, <i>Iowa State University</i>
8:45 AM	Trends in Antibiotic Use in an Integrated Poultry Company Becky Tilley, <i>Butterball LLC</i>	Investigation of Environmental Fomites and Their Role in the Transmission of Mycoplasma Synoviae Brandon Armwood, <i>Poultry Diagnostic & Research Center</i>
9:00 AM	Quantifying Antimicrobial Use in Poultry Production Randall Singer, <i>University of Minnesota</i>	Co-infection studies with respiratory viruses and/or Mycoplasma synoviae in chickens and turkeys Mary Pantin-Jackwood, <i>Southeast Poultry Research Laboratory</i>
Topic	NPIP	
9:15 AM	USDA-National Poultry Improvement Plan Denise Brinson, <i>United States Department of Agriculture</i>	Tracheal Lesion Evaluation of broilers co-infected with Mycoplasma synoviae and Infectious Laryngotracheitis Valerie Marcano, <i>University of Georgia</i>
Topic	Case Reports	
9:30 AM	The Impact of Histomoniasis on Turkey Breeder Production Brian Wooming, <i>Cargill Turkey & Cooked Meats</i>	Mycoplasma synoviae (MS) Core Genome Multilocus Sequence Typing (cgMLST): The Next Level of MLST Mostafa Ghanem, <i>The Ohio State University</i>
9:45 AM	Clinical Investigation of Neurological Symptoms in a Flock of Turkey Breeding Toms Marissa Garry, <i>Select Genetics</i>	Using Drinker Swabs To Monitor Health Status Of Turkey Flocks For Mycoplasma Jolene Tourville, <i>Jennie-O Turkey Store</i>
10:00 AM	Break	
10:15 AM	Wellness Talk: Laurie Fonken Living Between the Lines: Life, Work and Wellbeing	
10:45 AM	Business Meeting	
12:00 PM	Lunch Break	
Moderator	Case Reports	Immunology
1:15 PM	Ricketts Subsequent to Mineral Segregation in Turkey Poults Molly Parker, <i>Butterball LLC</i>	Tracheal Immune Pathways and the Role of Viral Microbiota in Resistance to Different Infectious Bronchitis Virus Genotypes Rodrigo Gallardo, <i>University of California Davis</i>
1:30 PM	Atypical Presentation of Fungal Pneumonia in Turkey Poults Megan Lighty, <i>Jennie-O Turkey Store</i>	Effect of ammonia on the immune response to infectious bronchitis virus vaccination and protection from homologous challenge in broiler chickens Emily Aston, <i>University of Georgia PDRC</i>
1:45 PM	A Case of Botulism in Commercial Turkeys Robert Owen, <i>Best Veterinary Solutions</i>	Effect Of Dose And Strain On The Ability Of HVT To Hasten Immunocompetence In Chickens Allison Boone, <i>North Carolina State University College of Veterinary Medicine and North Carolina Veterinary Diagno</i>
2:00 PM	Boron: Beyond Boring Steven Hutter, <i>Mississippi State University</i>	Expression of immune-related genes in the jejunum and cecal tonsils of broiler chickens challenged with coccidia and Clostridium perfringens and supplemented with sodium butyrate and essential oils Cristiano Bortoluzzi, <i>University of Georgia</i>
2:15 PM	Systemic histomoniasis associated with Marek's disease in free-range layer hens Fernando Jimenez, <i>Univ Nac Autonoma de Mexico</i>	Strengthening the Cell-mediated Immunity Post-hatch Using in ovo Delivery of Nucleic Acids with Increased Resistance to Respiratory Viruses Mohamed Sarjoon Mohamed Abdul-Cader, <i>University of Calgary</i>
2:30 PM	This Flock 'Mite' Have A Problem! Jenny Fricke, <i>University of Saskatchewan</i>	Hatchery Egg Shell Membrane (HESM) Nutritional Supplements Modulate Immunity of Chickens Narayan Rath, <i>PPPSRU USDA/ARS</i>
2:45 PM	Clinical Presentation of False Layer Syndrome Caused by Infectious Bronchitis Mike Petrik, <i>McKinley Hatchery</i>	Lipopolysaccharide (LPS)-Toll-like receptor (TLR) 4 Signaling Leads To Type I Interferon Production And Antiviral Response Against Infectious Laryngotracheitis Virus (ILT) Infection Mohamed Faizal Abdul-Careem, <i>University of Calgary</i>

Sunday, July 15, 2018

Room Four Seasons 1		Room Four Seasons 2-3
Topic	Case Reports	Wealth of Knowledge
Moderator		
3:15 PM	Leg Weakness and Mortality in Pullets? Francene Van Sambeek, <i>Elanco Animal Health</i>	Impacts of Mycotoxins on Poultry Health and Their Prevalence In The 2017 Corn Crop G Raj Murugesan, <i>BIOMIN America Inc.</i>
3:30 PM	Investigation of high bacterial counts on hatching eggs at transfer Jean Sander, <i>Zoetis</i>	Histopathology and Histomorphometric Study of Gizzard Erosions in Broiler Chickens Associated with Gross Necropsy Findings Jessica Hockaday, <i>Mississippi State University Poultry Research and Diagnostic Laboratory</i>
3:45 PM	Incubation And After Hatch Issues - Their Influence On Broilers Performance Danuta Furmanek, <i>MSD AH/MERCK</i>	Hepatic sinusoidal vascular smooth muscle hypertrophy proceeds septox hepatitis in broilers Erfan Chowdhury, <i>Alabama Veterinary Diagnostic Laboratory System</i>
4:00 PM	Protection Conferred By A rHVT/ILT Vaccine In Broilers Under Intense Field Infectious Pressure Francisco Rios-Cambre, <i>MSD Salud Animal Mexico</i>	Use of Intracranial Alcohol Injection in Ducks and Ratities as a Humane Method of Euthanasia Patricia Wakenell, <i>Purdue VM: Dept. Comparative Pathobiology</i>
4:15 PM	Case Report: Wooden Breast Syndrome as a Precipitating Factor in Acute Gastrocnemius Tendon Rupture and Leg Condemnation in Roaster Chickens Marie Severyn, <i>Amick Farms</i>	Pathological And Molecular Characterization Of Wooden Breast Disease In Commercial Broiler Chickens During The Normal Growth Period Michael Babak, <i>University of Delaware</i>
4:30 PM	Infectious Coryza In Broilers In The Central Valley of California, Production And Economical Impact Grace Mountainspring, <i>Foster Farms</i>	Using Social Network Analysis (SNA) to Better Understand Disease Transmission in Backyard Poultry Flocks in California Myrna Cadena, <i>UC Davis School of Veterinary Medicine</i>
4:45 PM	Streptococcus gallolyticus subsp. pasteurianus in Ducklings Richard Fulton, <i>Michigan State University</i>	Digital security in managing veterinary records and compliance data Albert Payne, <i>1010 Consulting Group</i>
5:00 PM	In Depth Investigation of a Hatchery Vaccination Failure Francisco Rojo, <i>Boehringer Ingelheim</i>	Development of a Web-App for Monitoring Waterfowl Habitat in Real-Time in California Maurice Pitesky, <i>UC Davis School of Veterinary Medicine</i>
5:15 PM	Adjourn	

Room Four Seasons 1		Room Four Seasons 2-3
Topic	Virology	Salmonella
Moderator		
8:00 AM	A Retrospective Study of vvIBDV and vvIBDV Reassortants in California Backyard Poultry; 2009-2017 Simone Stoute, <i>University of California Davis</i>	Current Situation Of Fowl Typhoid In Latin America: Is This Disease Reaching Alarming Proportions? Martha Pulido Landinez, <i>Mississippi State University</i>
8:15 AM	Molecular Characterization of Infectious Bursal Disease Viruses from commercial poultry in Peru Phillip Ormeño, <i>Farmacologicos Veterinarios S.A.C.</i>	Using Salmonella Prevalence in Bird Rinsates and Parts to Evaluate Live ST Vaccination Performance in a Southern U.S. Broiler Complex Kalen Cookson, <i>Zoetis</i>
8:30 AM	Very virulent Gumboro or not? A perennial retrospective on sequencing, phylogenetic analysis and conceptual translation of VP1 and VP2. Martin Liman, <i>AniCon Labor GmbH</i>	Comparative evaluation of live attenuated Salmonella vaccines to prevent Salmonella infections in chickens. Vinicius Lima, <i>University of Florida</i>
8:45 AM	Protective effects of a fermentation metabolite product against avian influenza virus in commercial layers Lyndsey Linke, <i>Diamond V</i>	The role of genes encoding for tetrathionate respiration, SPI-1, and SPI-2 on the cecal colonization and systemic spread of Salmonella Typhimurium in chickens with or without coccidia coinfection Claire-Sophie Rimet, <i>University of Georgia</i>
9:00 AM	Improved real-time RT-PCR tests for Class II Newcastle Disease Viruses David Suarez, <i>Southeast Poultry Research Laboratory Agricultural Research Service U.S. Department of Agriculture</i>	Refined Functional Carbohydrates Reduce Salmonella spp. Prevalence Among Broiler Breeders and Their Progeny Grayson Walker, <i>North Carolina State University College of Veterinary Medicine</i>
Topic		Vaccinology
9:15 AM	Assessment of Infectious Laryngotracheitis Virus (ILT) Recombination in Non-Vaccinated and Vaccinated Chickens After Co-Infection with Genotype V and VI Virulent Strains of the Virus Maricarmen Garcia, <i>University of Georgia</i>	Comparison Of Injection Sites For Se Bacterin Vaccine In Commercial Pullets Katharine Schlist, <i>Forsman Farms Inc.</i>
9:30 AM	Break	
9:45 AM	Immunological characterization of monoclonal antibodies against the recombinant gpG of infectious laryngotracheitis virus Ricardo Choque, <i>Farmacológicos Veterinarios S.A.C.</i>	Does Early Exposure To Oral Gavage of Clostridium Perfringens Impact The Pathogenicity Of A Severe Clostridium Perfringens Oral Challenge At 17 Days In A Necrotic Enteritis Challenge Model? Stephen Davis, <i>Colorado Quality Research Inc.</i>
10:00 AM	Defining The Impacts Of West Nile Virus On Ruffed Grouse (Bonasa Umbellus) In Pennsylvania Justin Brown, <i>Pennsylvania Game Commission</i>	Vaccination Of Turkey Breeders With Poulvac® E. coli To Improve Progeny Health Sesny Gall, <i>SELARL Vetrinaire de Malestroit</i>
10:15 AM	Whole Genome Sequencing Of Avipoxviruses Using Minion Nanopore Device Guillaume Crouille, <i>National Veterinary College of Toulouse</i>	Safety and Efficacy Studies with Inactivated Reovirus Vaccine Christopher Luther, <i>CEVA Animal Health</i>
Topic	Enteric Health	
10:30 AM	Secondary enteritis and crop mycosis in commercial turkey flocks Elise Gerken, <i>Jennie-O Turkey Store</i>	Stability, Safety and Efficacy of a Multivalent HVT-Vectored Vaccine Against Marek's Disease, Newcastle Disease and Infectious Bursal Disease Leticia Frizzo da Silva, <i>CEVA Animal Health</i>
10:45 AM	Synbiotic supplementation augments protection against Eimeria challenge in turkey poults Chasity Pender, <i>BIOMIN America Inc.</i>	Effect of Dose and Genotype on Overcoming Maternal Immunity After In Ovo Vaccination With Recombinant Newcastle Disease Vaccines Kiril Dimitrov, <i>USDA/ARS/USNPRC/SEPRL</i>
11:00 AM	Attaching and Effacing E. coli as a cause of enteritis in turkeys and chickens H Shivaprasad, <i>University of California Davis</i>	Transmission Assessment of Infectious Laryngotracheitis Virus (ILT) in Recombinant (r)HVT-ILT in ovo Vaccinated Broilers After Experimental Challenge Daniel Maekawa Maeda, <i>University of Georgia</i>
11:15 AM	Studies on the Interaction of Necrotic Enteritis Severity and Salmonella Prevalence in Broiler Chickens Manuel Da Costa, <i>Zoetis</i>	Comparison Of IBV Vaccinations Using Sprayable Gel, Droplet Gel, Or Water As Diluent Abigail Reith, <i>University of Georgia</i>
11:30 AM	History Lecture: Y.M. Saif The History of Infectious Bursal Disease	
12:00 PM	Lunch Break	

Room Four Seasons 1		Room Four Seasons 2-3
Topic	Parasitology	Infectious Bronchitis Virus
Moderator		
1:15 PM	Gel diluents vs. water spray: practical comparisons between different gels and water Linnea Newman, <i>Merck Animal Health</i>	Observation, Assessment and Utilization of Currently Available Infectious Bronchitis Diagnostic and Characterization Methods John ElAttrache, <i>CEVA Animal Health</i>
1:30 PM	Using Polymer Beads To Optimize Hatchery Application Of Coccidiosis Vaccines G. Donald Ritter, <i>Mountaire Farms Inc.</i>	Detection and Typing of Infectious Bronchitis Virus (IBV) Isolates in Pennsylvania Tamer Sharafeldin, <i>Penn State University</i>
1:45 PM	Coccidiosis Vaccines and Immunity John McCarty, <i>Boehringer Ingelheim</i>	Sequence Analysis and Challenge Study on Infectious Bronchitis DMV Strain from Canada Ha-Jung Roh, <i>CEVA Animal Health</i>
2:00 PM	Using a live non-attenuated coccidiosis vaccine to reduce anticoccidial resistance in a commercial facility in Ontario. Ryan Snyder, <i>University of Guelph</i>	Understanding Innate Responses and Resistance to Infectious Bronchitis Virus in Resistant and Susceptible Chicken Lines Using Primary Cells Rodrigo Gallardo, <i>UC Davis</i>
2:15 PM	Evaluation Of Different Coccidia Vaccines, With Or Without A Bioshuttle, For Control Of A Pathogenic E. Tenella Laura Tensa, <i>University of Georgia</i>	Age of Vaccination Influences Infectious Bronchitis Virus Cross-Protection Haroldo Toro, <i>Auburn University</i>
2:30 PM	Comparison of a commercial coccidiosis control program in broiler breeder replacement stock with and without the addition of a chemical anticoccidial. Erin Riley, <i>Sanderson Farms Inc.</i>	Outbreaks of Infectious Bronchitis virus Arkansas DPI serotype in broiler chickens in California H Shivaprasad, <i>University of California Davis</i>
2:45 PM	Microscopic Eimeria maxima: Comparing Serial Intestinal Scrapings to Composite Sample with Statistical Modeling Francene Van Sambeek, <i>Elanco Animal Health</i>	Field experience with GA08 + Mass vaccinated broilers in a complex using Ark vaccine and experiencing Ark rolling reactions Jose Linares, <i>CEVA Animal Health</i>
3:00 PM	Break	
Moderator		
3:15 PM	Utilizing OPG Counts To Monitor Coccidiosis Vaccination Programs Kelli Jones, <i>CEVA Animal Health</i>	Infectious Bronchitis Virus Vaccine Types Ma5 And 4/91 Protect Against A Wide Variety Of Challenge Serotypes Brian Jordan, <i>University of Georgia</i>
3:30 PM	Immunization Of Newly-Hatched Broiler Chicks With A Recombinant Eimeria Maxima Protein EmaxIMP1 Conjugated To Nanoparticles Confers Protection Against Coccidiosis Mark Jenkins, <i>ARS-USDA</i>	Effectiveness of a Vaccine Program Based on the Protectotype® Concept Against an Infectious Bronchitis Variant Virus Strain Challenge (GA13) in Costa Rica Linnea Newman, <i>Merck Animal Health</i>
3:45 PM	An Invention of a new method for control of coccidiosis in Chicken Elie Barbour, <i>Opticon</i>	Subclinical Losses Caused By Infectious Bronchitis virus In Broiler Chicken Flocks Jorge Chacón, <i>CEVA Animal Health</i>
4:00 PM	Is Important to Choose the Right Anticoccidial During the Winter Season? Andres Montoya, <i>Merck Animal Health</i>	Farm and slaughterhouse parameters affected by BR strain of Infectious Bronchitis Virus Jorge Chacón, <i>CEVA Animal Health</i>
Topic	Marek's Disease	
4:15 PM	Detection of coccidia and other parasites in fecal samples from chicken backyard flocks Ruediger Hauck, <i>Auburn University</i>	Comparison Of Different Marek's Injection Protocols on Livability of Commercial Laying Hens Ian Rubinoff, <i>Hy-Line International</i>
4:30 PM	Evaluation of Performance and Woody Breast Myopathy in Broilers under Coccidiosis Vaccination or Anticoccidial Programs Ivan Alvarado, <i>Merck Animal Health</i>	Comparison of Marek's Disease Virus Challenge Strains for Vaccine Evaluation John Dunn, <i>USDA-ARS-ADOL</i>
4:45PM	Control of Capillaria infestation with fenbendazole in chickens via drinking water treatment in combination with zero egg withdrawal Rik Koopman, <i>MSD AH</i>	Study of MHC class I downregulation by highly virulent MDV strains and its role on Marek's disease virus-induced immunosuppression Isabel Gimeno, <i>North Carolina State University</i>
5:00 PM	Top dressing and blackhead: Fact or Fiction? Seiche Genger, <i>Cargill Turkeys LLC</i>	Generation of transgenic chickens expressing Cas9 and gRNAs targeted to Marek's disease virus Karel Schat, <i>Cornell University</i>
5:15 PM	Adjourn	

Room Four Seasons 1		Room Four Seasons 2-3
Topic	Diagnostics	Avian Influenza
Moderator		
8:00 AM	The Use of a New NDV-F ELISA to Detect Antibodies Following Vaccination with Recombinant HVT Vectored Vaccines for NDV Gwenlyan Slacum, <i>BioChek USA Corp.</i>	Infection And Transmission Of LPAIV H9N2 Viruses In SPF Chickens. Elizabeth Pusch, <i>Southeast Poultry Research Laboratory</i>
8:15 AM	Development Of Infectious Bronchitis (IBV) Enzyme-Linked Immunosorbent Assay (ELISA) Using Pseudotyped Vesicular Stomatitis Virus (VSV) Particles Expressing IBV Spike Proteins Jongseo Mo, <i>University of Georgia PDRC</i>	Tropism of clade 2.3.4.4. H5N8 HPAI viruses in feather pulp Jean-Luc Guerin, <i>ENVT University of Toulouse</i>
8:30 AM	Recent Observations in the Use of ProFLOK® IBV Ab ELISA Kits in Detecting Variant Infectious Bronchitis Virus (IBV) Infections Dan Domingo, <i>Zoetis</i>	Comparison of Manual and Mechanical Defeathering for Airborne Virus Production During the Processing of Asymptomatic H5N1 Virus Infected Chickens Kateri Bertran Dols, <i>US National Poultry Research Center Southeast Poultry Research Laboratory USDA-ARS</i>
8:45 AM	Analysis and application of average ELISA titers for Mississippi poultry Natalie Armour, <i>Mississippi State University CVM DPPM</i>	Pathology And Tissue Distribution Of H5N2 HPAIV Clade 2.3.4.4. In Vaccinated And Experimentally Challenged Commercial Broad Breasted White Turkeys. Silvia Carnaccini, <i>University of Georgia</i>
9:00 AM	Serological surveillance of wild and pen-reared pheasants in the Central Valley of California Ian Dwight, <i>U.S. Geological Survey</i>	A Rapid-Response Antiviral for Poultry: Aerosolized Ammunition Against Avian Influenza Outbreaks Lyndsey Linke, <i>Colorado State University/SiVEC Biotechnologies</i>
9:15 AM	Use of Ultrasound to Diagnose Cystic Oviduct in Infectious Bronchitis Virus (DMV Strain) Positive Immature Leghorns Martine Boulianne, <i>Université de Montréal</i>	Genetics, Receptor Binding, and Pathogenicity Investigation of H6 Avian Influenza Virus in Taiwan Hui-Wen Chen, <i>National Taiwan University</i>
9:30 AM	Development of Reliable Techniques for the Differential Diagnosis of Avian Tumour Viruses by Immunohistochemistry and Polymerase Chain Reaction from Formalin-Fixed Paraffin-Embedded Tissue Sections Husnain Ahmed, <i>USDA-ARS</i>	Toll-Like Receptors In Different Poultry Species And Their Role In Influenza Virus Pathogenesis Mahesh K C, <i>The Ohio State University</i>
9:45 AM	Break	
10:00 AM	Assessment of Vector Vaccine and Field Virus Differentiation Methodologies Alexandra Mendoza-Reilley, <i>Merck Animal Health</i>	Potential Mediators of In ovo Delivered Double Stranded (ds) RNA-mediated Antiviral Response Against Low Pathogenic Avian Influenza Virus Infection Hanaa Hassan, <i>University of Cairo</i>
10:15 AM	Troubleshooting an infectious laryngotracheitis outbreak on a multi-age commercial layer pullet operation using next generation sequencing Elise Myers, <i>Merck Animal Health</i>	Adaptation of Wild-bird Origin H5Nx Highly Pathogenic Avian influenza Virus Clade 2.3.4.4 in Vaccinated Poultry Darrell Kapczynski, <i>USDA-ARS-Southeast Poultry Research Laboratory Athens Ga</i>
10:30 AM	Dissecting respiratory integrity and co-infections in poultry using RPN-PCR (Respiratory Panel Nanofluidic real-time PCR): field investigations in Asian countries Alexis Kiers, <i>Elanco Animal Health</i>	Infectivity, Pathogenicity, and Transmission of a 2016 H5N8 2.3.4.4 Highly Pathogenic Avian Influenza Virus in Mallards and Chickens Christina Leyson, <i>Southeast Poultry Research Laboratory</i>
10:45 AM	Rapid and Sensitive Characterization of Newcastle Disease Virus Genotypes by MinION Nanopore Sequencing Salman Latif Butt, <i>University of Georgia</i>	A comparison of the pathways for the introduction and/or spread of influenza A viruses between commercial upland gamebird and other poultry productions Amos Ssematimba, <i>University of Minnesota</i>
11:00 AM	Differentiating Vaccine-related Fowl Cholera From Naturally Occurring Disease Charles Roney, <i>University of Georgia</i>	Application of Diagnostic Test Results to Predict Epidemiological Variables Relevant to Choosing Disposal Options for LPAI Infected Poultry Flocks Sasidhar Malladi, <i>University of Minnesota</i>
11:15 AM	Diagnosis of turkey enteritis: multiplex PCR versus next generation sequencing (NGS) Sunil Kumar, <i>University of Minnesota</i>	The survival of highly pathogenic avian influenza virus in turkey carcasses Erica Spackman, <i>SEPR-LSU-ARS</i>
11:30 AM	Identification and survey of Avibacterium paragallinarum (Infectious coryza) in backyard and commercial poultry flocks of Georgia using PCR. Douglas Anderson, <i>GPLN</i>	Controlled marketing, is it still relevant for the control of low pathogenicity avian influenza? Carol Cardona, <i>University of Minnesota</i>
11:45 AM	Development of Mycoplasma gallisepticum F-Strain Vaccine Specific PCR Protocols Naola Ferguson-Noel, <i>University of Georgia</i>	Using Geospatial Methods To Measure The Risk Of Environmental Persistence Of Avian Influenza In South Carolina Chloe Stenkamp-Strahm, <i>Colorado State University CVM</i>
12:00 AM	Adjourn	

AAAP Poster Session Room

Antibiotic Resistance

Antimicrobial Resistance In Enterococcus Species Isolated From Poultry Production In Alberta Karen Liljebjelke, *University of Calgary*

Antimicrobial

VFD and Prescription Compliance in Poultry: Lessons Learned in 2017
Steven Clark, *Devenish Nutrition LLC*

Shield Plus; A Natural Animal Welfare Enhancer And Disinfectant For Inactivation Studies On Avian Influenza And Other Avian Viruses
Huaguang Lu, *The Pennsylvania State University*

Susceptibility of antibiotics used in commercial farms in Peru Nelly Cribillero, *San Marcos University*

Extended spectrum beta-lactamases (ESBLs) detected since 2007 among E. coli isolates from broiler breeders; hatchery and broilers in Mexico
Cecilia Rosario, *Universidad Nacional Autonoma de Mexico*

Avian Influenza

Development of a Transgenic Plant Vaccine against Avian Influenza Virus
Joseph Giambone, *Auburn University*

Reduction of viral dissemination in commercial birds vaccinated against Avian Influenza H5N2 with different vaccination programs; in front of a challenge with an Avian Influenza virus; of low pathogenicity Luis Rojas Olaiz,

The Pathogenesis of H7 HPAIV in Lesser Scaup (Aythya affinis) Christopher Stephens, *SEPRL-USDA-ARS*

Double stranded RNA-mediated antiviral response against low pathogenic avian influenza virus infection attributable to type 1 interferon activity and expression of toll-like receptor 3 Hanaa Hassan, *University of Cairo*

Infectivity; Pathogenicity; and Transmission of Mexican H7N3 Highly Pathogenic Avian Influenza Viruses in Chickens and Mallards Sungsu Youk,

Using Size Exclusion Chromatography As Method For Avian Influenza Virus Detection in Delta Wetlands Madeline McCuen, *UC Davis School of Veterinary Medicine*

Persistence of LPAI and HPAI in Reused Poultry Litter and LPAI in Poultry Carcasses Alejandra Figueroa, *University of California Davis*

Investigation of tissue tropism of the Hemagglutinin glycoprotein of High Pathogenicity and Low Pathogenicity Avian Influenza H5 Viruses In Poultry Species And Wild Birds Using Tissue Microarrays Carmen Jerry, *University of Georgia PDRC*

Influenza Active Vaccine stimulates the humoral immunity strong and reduce virus shedding Alejandro Garcia, *St. Jude Children's Research Hospital*

Bacteriology

Molecular epidemiology of Ornithobacterium rhinotracheale isolates from chicken and turkeys Kakambi Nagaraja, *University of Minnesota*

Coryza Outbreaks in Chickens and the Role of Galibacterium anatis on the Clinical Presentation Rodrigo Gallardo, *University of California Davis*

Triple-sugar regulated Salmonella vaccines protect against Clostridium perfringens-induced necrotic enteritis in broiler chickens Roy Curtiss, *University of Florida*

Poultry Vaccines Fernando Lozano, *CEVA Animal Health*

Feed acidification to improve performance and reduce necrotic enteritis

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The Development of Real Time PCR Protocols to Differentiate Mycoplasma synoviae Vaccine and Field Strains Mohammadreza Ehsan, *University of Georgia*

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Disease surveillance in small poultry flocks in Ontario Nancy Brochu, *University of Guelph Ontario Veterinary College Department of Pathobiology*

How do you engage small and large animal practitioners with poultry veterinarians and educate them about chickens? Martine Boulianne, *University of Montreal*

Early Phosphorous Deficiency in Commercial Broiler Chickens Jose Bruzual, *Aviagen Inc.*