AAAP Symposium

Poultry and Policy: A Melee of Science Agriculture, and Politics o JULY 21-25

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.



Indianapolis, IN July 21-25, 2017



New Edition of A Practical Guide for Managing Risk in Poultry Production Available online and at the AAAP booth now!



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"This book is intended to be a practical field guide to help food supply veterinarians specializing in poultry make knowledgeable recommendations on aspects of disease prevention other than the traditional vaccination programs and treatment regimens." Dr. Robert Owen, Editor

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AAAP Event Schedule



Friday

Opening Session 11:30 am Room: Sagamore 3 Indiana Convention Center

Keynote Speaker Brett Stuart 12:00 pm Room: Sagamore 3 Indiana Convention Center

Opening Luncheon 12:30 pm Room: Sagamore 1-2 Indiana Convention Center

Saturday Scientific Symposium 7:30 am Room: Sagamore 3 Indiana Convention Center

New Member Orientation 1:30 pm Room: Cabinet Westin Indianapolis Hotel

Poultry Professional Networking 5:30 pm Room: Capitol 1 Westin Indianapolis Hotel

Sunday Business Meeting 10:45 am Room: Sagamore 3 Indiana Convention Center

Monday

History Video 11:15 am Room: Sagamore 3 Indiana Convention Center

History Lecture John Donahoe 11:30 am Room: Sagamore 3 Indiana Convention Center

Awards Dinner 6:00 pm Room: Grand Ballroom 4 Westin Indianapolis Hotel



2017 AAAP Event Schedule

Name of Group	Meeting Date	Beg. Time	End Time	Location
AAAP Board of Directors Meetings				
AAAP Board of Directors	Thursday, July 20	7:00am	5:00pm	Grand Ballroom 1
AAP Board of Directors	Friday, July 21	7:00am	11:30am	Grand Ballroom 1
AAP Past Presidents Luncheon	Sunday, July 23	12:15pm	1:45pm	Caucus
AAP Board of Directors - Committee Chairs	Monday, July 24	1:00pm	5:00pm	Grand Ballroom 2
ommittee Meetings				
listopathology/Case Report Interest Group	Friday, July 21	8:00am	11:00am	Capitol 3
mall Flocks Interest Group	Friday, July 21	8:00am	11:00am	Capitol 1
AAP Committee Chairs, Allied Group Presidents and BOD Meeting	Saturday, July 22	12:15pm	1:30pm	Capitol 2
wards Committee	Saturday, July 22	1:30pm	2:25pm	Congress 2
esearch Priorities Committee	Saturday, July 22	1:30pm	2:25pm	Grand Ballroom 2
vian Diseases Editorial Board	Saturday, July 22	1:30pm	2:25pm	Capitol 3
vian Diseases Manual Editorial Board	Saturday, July 22	1:30pm	2:25pm	Cameral
vian Diseases Advisory Board	Saturday, July 22	2:30pm	3:25pm	Capitol 3
ducation Committee	Saturday, July 22	3:30pm	4:25pm	Cabinet
nteric Diseases Committee		2:30pm	3:25pm	Grand Ballroom 2
pidemiology Committee	Saturday, July 22 Saturday, July 22	2:30pm 2:30pm	3:25pm	Chamber
lembership Committee	Saturday, July 22	2:30pm	3:25pm 3:25pm	Caucus
receptorship Committee	Saturday, July 22	2:30pm	3:25pm	Grand Ballroom 1
nall Flocks Committee	Saturday, July 22	2:30pm	3:25pm	State
iseases of Public Health Significance	Saturday, July 22	3:30pm	4:25pm	Cameral
rugs and Therapeutics Committee	Saturday, July 22	3:30pm	4:25pm	Grand Ballroom 3
ood Safety Committee	Saturday, July 22	3:30pm	4:25pm	Caucus
istory Committee	Saturday, July 22	3:30pm	4:25pm	Grand Ballroom 1
AC Committee	Saturday, July 22	3:30pm	4:25pm	Congress 1
nimal Welfare Committee	Saturday, July 22	3:30pm	5:25pm	Grand Ballroom 4
espiratory Diseases Committee	Saturday, July 22	3:30pm	5:25pm	Grand Ballroom 5
oxic, Infectious, Miscellaneous & Emerging Diseases Committee	Saturday, July 22	3:30pm	5:25pm	Capitol 2
umor Virus Committee	Saturday, July 22	4:30pm	5:25pm	House
AAP Foundation Scholarship Committee	Sunday, July 23	7:00am	8:00am	Council
AAP Foundation Development Committee	Monday, July 24	9:00am	10:00am	Grand Ballroom 1
rogram Events				
AAP Opening Session	Friday, July 21	11:30am	12:00pm	Convention Center
017 Scientific Program Keynote Address	Friday, July 21	12:00pm	12:30pm	Convention Center
AAP Opening Luncheon (Light lunch buffett)	Friday, July 21	12:30pm	1:30pm	Convention Center
AAP Symposium	Saturday, July 22	7:30am	12:00pm	Convention Center
ew Member Orientation	Saturday, July 22	1:30pm	2:25pm	Cabinet
AAP Poultry Professional Networking (Meet the Expert)	Saturday, July 22	5:30pm	6:30pm	Capitol 1
AAP Business Meeting	Sunday, July 23	10:45am	12:00pm	Convention Center
AAP History Video	Monday, July 24	11:15am	11:30am	Convention Center
AAP History Lecture	Monday, July 24	11:30am	12:00pm	Convention Center
AAP Awards Reception before dinner	Monday, July 24	5:30pm	6:00pm	Grand Ballroom 3
AAP Awards Dinner	Monday, July 24	6:00pm	8:00pm	Grand Ballroom 4
CPV	Monday, July 24	0.00pm	0.000111	
CPV Exam #1	Friday, July 21	7:00am	5:30pm	Grand Ballroom 3
CPV Exam #1	Friday, July 21	7:00am 7:00am	5:30pm	Senate 1-2
CPV Exam Grading Room	Friday, July 21	7:00am	10:00pm	House
CPV Board of Governors Meeting	Sunday, July 23	7:00am	9:30am	Capitol 1
CPV Reception/Annual Meeting	Monday, July 24	7:00am	8:30am	Capitol 2
nvitation Only		7.00	5.00	
ssociation of Veterinarians in Broiler Production Meeting	Thursday, July 20	7:00am	5:00pm	Capitol 2
ssociation of Veterinarians in Turkey Production	Thursday, July 20	12:00pm	5:00pm	Grand Ballroom 4
ssociation of Veterinarians in Turkey Production	Friday, July 21	8:00am	11:30am	Grand Ballroom 4
eorgia MAM Alumni Meeting and Social	Sunday, July 23	5:30pm	8:30pm	Rock Bottom Brewery
ssociation of Poultry Primary Breeder Veterinarians	Saturday, July 22	11:30am	1:30pm	Council
ssociation of Veterinarians in Egg Production	Friday, July 21	7:00am	11:00am	Grand Ballroom 2

Indianapolis Convention Center Level 2



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2017 POULTRY AND POLICY: A MELEE OF SCIENCE, AGRICULTURE, AND POLITICS





Poultry and Policy: A Melee of Science, Agriculture, and Politics Saturday, July 22, 2017 (7:30AM – 12:00PM)

7:30- 7:35 AM	Introduction & Welcome Nathaniel Tablante	
Moderator	Andrea Zedek	
7:35- 8:05 AM	The AVMA Governmental Relations Division and What they do for Veterinarians and the Poultry Industry Mark Lutschaunig, <i>AVMA Governmental Relations Division Director</i>	
8:05- 8:30 AM	Basics of the Regulatory Process Anna O'Brien, Veterinary Medical Officer, FDA Center for Veterinary Medicine	
8:30- 8:55 AM	The Role of a State Veterinarian in Policies Affecting Animal Health Emergencies Bret Marsh, Indiana State Veterinarian	
8:55- 9:25 AM	Poultry and Policy: the Adventures of a Poultry Veterinarian in Congress Nathaniel Tablante and Lloyd Keck, Former AVMA Congressional Fellows	
9:25- 9:30 AM	Veterinarians in Congress (video clips of Rep. Ted Yoho and Rep. Kurt Schrader) Nathaniel Tablante	
9:30- 9:45 AM	Break	
Moderator	Nathaniel Tablante	
9:45- 10:10 AM	Rise and Fall of the Egg Bill Bob Krouse, <i>egg producer and former UEP chairman</i>	
10:10 AM - 10:35 AM	Current and Proposed Legislation Affecting the Turkey Industry Molly Parker, Director of Food Safety and Animal Care, Butterball	
10:35 AM - 11:00 AM	Current and Proposed Legislation Affecting the Broiler Industry Ashley Peterson, Senior Vice President, Scientific and Regulatory Affairs, National Chicken Council	
11:00- 11:25 AM	How Consumers and the Media Influence Public Policy Del Holzer, Director, Meat and Poultry, Global Market Access, Elanco	
11:25- 12:00 PM	The Role of Industry, Laboratory and Government Collaboration in Disease Response Planning and Execution Paul Brennan, <i>EVP, Indiana State Poultry Association</i>	
12:00 PM	Adjourn	



AAAP Scientific Program Friday, July 21, 2017



	Room Sa	gamore 3	
11:30 AM	AAAP Opening Session		
11.507.00	Hector Cervantes, AAAP President		
12:00 PM	Keynote Speaker: Global Competitiveness Focusing on Broilers, Turkeys and Table Eggs Brett Stuart		
12:30 PM	AAAP Opening Reception		
	Room Sagamore 4 Room Sagamore 3		
Topic	Diagnostics	Case Reports	
Moderator	Milos Markis	Travis Cigainero	
2:00 PM	Update of Isolation and Genomic Characterization of the Newly Emerging Avian Reovirus Variants in Pennsylvania Poultry Huaguang Lu DVM, The Pennsylvania State University	Pulmonary Hemorrhage caused by a Staphylococcus aureus - Reoccurring Problem in Breeder Pullets in Canada Darko Mitevski DVM, MSci., MAM, Dipl ACPV, POULTRY HEALTH SERVICES	
2:15 PM	Validation of Conversional PCR and Real-time PCR Assays for Rapid Detection of Fowl Adenoviruses from Clinical Avian Specimens and Laboratory Virus Isolation Samples Huaguang Lu DVM, The Pennsylvania State University	Case report: lessons learned from a retrospective look at an excessive respiratory disease challenge – confessions of a field veterinarian David French DVM, Sanderson Farms	
2:30 PM	Next-generation sequencing of Newcastle disease virus from formalin-fixed paraffin-embedded tissues of chickens and wild birds Salman Latif Butt DVM, MS, <i>University of Georgia, Athens</i>	Inclusion Body Hepatitis Outbreak in Commercial Broiler Chickens in California. Simone Stoute DVM, PhD, DACPV, UC Davis	
2:45 PM	Lesions in the Diaphysis of Broiler Chickens Oscar Fletcher DVM, North Carolina State University	High Mortality in Adult Broiler Breeder Chickens with Gallibacterium anatis and Escherichia coli Septicemias Natalie Armour BVSc, MAM, PhD, Dipl. ACPV, Mississippi State University, CVM, DPPM	
3:00 PM	Staphylococcus aureus Related Hemorrhagic Pneumonia in Broiler Breeder Chickens: Pathologic Findings with Emphasis on Histology Emily Martin DVM, MSc, DACPV, University of Guelph		
3:15 PM	Br	eak	
Topic	Diagnostics/Immunology/Welfare	Case Reports	
Moderator	Kristen Roza	Sara Steinlage	
3:30 PM	The Use of a Chicken Astrovirus Group B ELISA to determine the seroprevalence of Group B Chicken Astrovirus associated with "White Chick" Disease in Broiler Breeders in the US and Canada Gwenllyan Slacum DVM, <i>BioChek USA Corp.</i>	Case Report: Brachyspira spp. Infection in a Flock of Commercial Layers in the Southeastern United States Eric Heskett DVM, PhD, Diplomate ACPV, <i>Elanco Animal Health</i>	
3:45 PM	Efficacy of Simultaneous Injection of a new Generation Marek's Serotype 1 Vaccine with Herpesvirus of Turkey (HVT) -vectored IBD or ND Vaccines Against Marek's Disease, Newcastle and Gumboro Viruses Challenges Andreas Herrmann DVM, Merial SAS, Lyon, France	Isolation of MG, Infectious Coryza, and IBV GA07 variant in a backyard flock Eric Shepherd DVM, University of Georgia	
4:00 PM	Effect of Pullet Vaccination on Development and Longevity of Immunity Emily Aston DVM, <i>University of Georgia</i> , PDRC	Early onset tenosynovitis and isolation of Reovirus in turkey poults Yuko Sato DVM, <i>Iowa State University</i>	
4:15 PM	Evaluation of cervical dislocation methods for adult chickens Kate Barger DVM, <i>Cobb-Vantress, Inc.</i>	Case Report: Investigation into Acute Catastrophic Hatchability loss and Increased Chick Brooding Mortality in a Raise-for-Release Northern Bobwhite Quail Hatchery Operation. Douglas Anderson DVM, GPLN	
4:30 PM	Broiler Stunning: Studies on the Modification of a Dual Phase Low- Voltage Electrical Stunning System to Deliver an Effective Stun Kenneth Opengart MS, DVM, PhD, DACPV, Keystone Foods	Too Much of a Good Thing? Jenny Fricke DVM, University of Saskatchewan	
4:45 PM	Adj	ourn	



Sunday, July 23, 2017



	Room Sagamore 4	Room Sagamore 3	
Topic	Avian Influenza	Reovirus	
Moderator	Lindsey Christina	Louise Dufour-Zavala	
8:00 AM	H9N2 low pathogenic avian influenza: Should we be afraid? David Suarez DVM, Southeast Poultry Research Laboratory, USDA-ARS	Tenosynovitis outbreaks in commercial broiler chickens associated with avian reovirus variants in California: a pathogenicity study. Manuela Crispo DVM, UC, Davis, CAHFS	
8:15 AM	Evaluation of Avian Influenza Virus Transmission From Laying Hens to Eggs and Embryos as a Potential Means of Virus Spread Christopher Stephens PhD, <i>Southeast Poultry Research Laboratory, USDA-ARS</i>	Factors affecting susceptibility and control of reovirus in broiler chickens Milos Markis PhD, AviServe LLC	
8:30 AM	Influence of maternal immunity on vaccine efficacy and susceptibility of commercial broilers against highly pathogenic avian influenza virus Kateri Bertran Dols PhD, Southeast Poultry Research Laboratory, USDA-ARS	Tenosynovitis Outbreaks in Commercial Broiler Chickens in California Associated With Reovirus Variants: An Overview. H Shivaprasad DVM, University of California, Davis	
8:45 AM	Comparison of Recent US H5N2 and H7N8 Highly Pathogenic Avian Influenza Virus Isolates in Turkeys Erica Spackman PhD, Southeast Poultry Research Laboratory, USDA-ARS	Antigenic and Genetic Characterization of Variant Reoviruses Isolated in 2015 rrom Clinical Cases of Tenosynovitis Holly Sellers PhD, The University of Georgia	
9:00 AM	Laboratory exercise on surge capacity of highly pathogenic avian influenza (HPAI) virus testing Arun Kulkarni PhD, Georgia Poultry Laboratory Network	Molecular Epidemiology of Re-emerging Turkey Arthritis Reoviruses Sunil Kumar DVM, PhD, University of Minnesota	
9:15 AM	Break		
Торіс	Avian Influenza	Vacinations	
Moderator	Nathaniel Tablante	Algis Martinez	
9:30 AM	Evaluation of Protective Heterosubtypic Immunity Against Different Doses of Low Pathogenic Avian Influenza Virus Challenge in Mallards Karen Segovia DVM, <i>The University of Georgia</i>	Evaluation of vaccine competition using HVT vector vaccines John Dunn DVM, USDA-ARS-ADOL	
9:45 AM	Infectivity, Pathogenicity and Transmissibility of Korean H5N6 Highly Pathogenic Avian Influenza Viruses in Pekin ducks and Mallards Jinyong Noh, Konkuk University	Vaccination with siderophore receptors and porins protects against fowl cholera challenge by heterologous serotypes Charles Carver B.Sc., <i>Epitopix, LLC</i>	
10:00 AM	Clinical and pathological investigations of H5 HPAI field cases in galliforms and waterfowl, France, 2015-2016 Jean-Luc Guerin DVM, <i>ENVT, University of Toulouse</i>	Comparison of adjuvant technologies for poultry vaccines Sophia Xu PhD,	
10:15 AM	Next generation weather radar (NEXRAD) as a mechanism for guiding avian influenza surveillance Todd Kelman DVM MPVM, University of California, Davis	Comparison of the Response to Intramuscular Injection of a Vaccine Against Salmonella Enteritidis in the leg Versus the Breast in Commercially Reared Leghorn Pullets Katharine Schlist DVM, University of Minnesota Veterinary and Biomedical Science	
	Reoccurrence of H5 Clade 2.3.4.4 Highly Pathogenic Avian Influenza	Peptide Nanoparticle-based Vaccine Induced Immune Responses against infection of High Pathogenicity Avian Influenza Virus in	
10:30 AM	Viruses in Wild Birds During 2016 Dong-Hun Lee DVM, PhD, Southeast Poultry Research Laboratory	chickens Mazhar Khan, University of Connecticut	
10:30 AM 10:45 AM	Poultry Research Laboratory		

Sunday, July 23, 2017 (continued)

	Room Sagamore 4	Room Sagamore 3
Торіс	Infectious Bronchitis Virus	Vacinations
Moderator	Brian Jordan	Kalen Cookson
1:30 PM	Evaluation of Infectious Bronchitis (IB) Vaccine Delivery for Broiler Hatchery Vaccination Ha-Jung Roh DVM, PhD, <i>CEVA ANIMAL HEALTH</i>	Immunogenicity and protective efficacy of virus-like particles and recombinant fiber proteins of fowl adenovirus (FAdV)-8b vaccines in broiler-breeders against inclusion body hepatitis Ashish Gupta, Western College of Veterinary Medicine, University of Saskatchewan
Торіс	Infectious Bronchitis Virus	Wealth of Knowledge
1:45 PM	Total IgA and IgY in chicken tears as indicators of early vaccine uptake against Infectious Bronchitis Andrea Delvecchio DVM, <i>MERIAL</i> SAS	USDA-National Poultry Improvement Plan Update Christina Lindsey, DVM, MS, DACPV, USDA-APHIS
2:00PM	Various Manifestations of Georgia 08 Philip Stayer DVM, Sanderson Farms	Using GIS Based Surveys and Social Network Analysis (SNA) to Understand Disease Transmission in Backyard Poultry (BYP) Flocks in California Myrna Cadena B.S., UC Davis School of Veterinary Medicine
2:15 PM	Pathogenesis After Infection of Broilers With an Infectious Bronchitis Virus With Increased Enteric Tropism Rüdiger Hauck Postdoc, UC Davis School of Veterinary Medicine	Avian Influenza or Fungicide: That is the Question Richard Fulton DVM, <i>Michigan State University</i>
2:30 PM	Understanding resistance to different infectious bronchitis virus genotypes Rodrigo Gallardo DVM, PhD, Dipl.ACPV, University of California, Davis	Hepatitis E Virus: Another Cause of Decreased egg Production and Increased Mortality in Layer and Broiler Breeder Hens. H.L. Shivaprasad, University of California, Davis
2:45 PM	Analysis of Viral Population Composition of Mass and GA08 type IBV Using Next Generation Sequencing (NGS) Ha-Jung Roh DVM, PhD, CEVA ANIMAL HEALTH	Testicular Measurement Tools to Evaluate Male Broiler Breeder Fertility Deirdre Johnson DVM, Mountaire Farms
3:00 PM	IBV Infection in Ontario's Poultry Flocks: An Update on the Changing Strains Over Time Emily Martin DVM, MSc, DACPV, University of Guelph	Skeletal Lesions Occur More Frequently in Turkeys that Die or are Culled Because of Persecution. Dallas Clontz DVM, North Carolina State University CVM
3:15 PM	Bre	ak
Topic	Infectious Bronchitis Virus	Wealth of Knowledge
Moderator	Pedro Villegas	Enrique Montiel
3:30 PM	Molecular characterization and bioinformatics evolution analyses of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP / Quimtia	Review of Key Lesions of Importance in Broiler Chickens from HTSi Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco
3:30 PM 3:45 PM	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP	Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco Increased Incidence of Gizzard Erosions in Broiler Chickens and
	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP /Quimtia Identification of an Infectious Bronchitis Coronavirus Strain Exhibiting a Classical Genotype but Altered Antigenicity, Pathogenicity, and Innate Immunity Profile Hui-Wen Chen PhD,	 Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco Increased Incidence of Gizzard Erosions in Broiler Chickens and Turkey Poults: a Consequence of Modern Poultry Farming? H. L. Shivaprasad, University of California, Davis Gross and Histopathologic Evaluation of Gizzard Erosions in Broilers
3:45 PM	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP /Quimtia Identification of an Infectious Bronchitis Coronavirus Strain Exhibiting a Classical Genotype but Altered Antigenicity, Pathogenicity, and Innate Immunity Profile Hui-Wen Chen PhD, National Taiwan University Replication dynamics of CEK cell-adapted ArkDPI infectious bronchitis virus vaccine in chickens Vicky van Santen PhD, Auburn	 Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco Increased Incidence of Gizzard Erosions in Broiler Chickens and Turkey Poults: a Consequence of Modern Poultry Farming? H. L. Shivaprasad, University of California, Davis Gross and Histopathologic Evaluation of Gizzard Erosions in Broilers Jessica Hockaday DVM, Mississippi State University Poultry Research and Diagnostic Laboratory Problem Solving Excess Mortality due to Chronic Polyserositis in
3:45 PM 4:00 PM	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP /Quimtia Identification of an Infectious Bronchitis Coronavirus Strain Exhibiting a Classical Genotype but Altered Antigenicity, Pathogenicity, and Innate Immunity Profile Hui-Wen Chen PhD, National Taiwan University Replication dynamics of CEK cell-adapted ArkDPI infectious bronchitis virus vaccine in chickens Vicky van Santen PhD, Auburn University Assessment of the Binding Characteristics of Arkansas-type Infectious Bronchitis Virus Spike Proteins Christina Leyson PhD,	 Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco Increased Incidence of Gizzard Erosions in Broiler Chickens and Turkey Poults: a Consequence of Modern Poultry Farming? H. L. Shivaprasad, University of California, Davis Gross and Histopathologic Evaluation of Gizzard Erosions in Broilers Jessica Hockaday DVM, Mississippi State University Poultry Research and Diagnostic Laboratory Problem Solving Excess Mortality due to Chronic Polyserositis in Young Broilers (14-28 days of age) in a Large Commercial Broiler Complex G. Donald Ritter DVM, Mountaire Farms Inc.
3:45 PM 4:00 PM 4:15 PM	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP /Quimtia Identification of an Infectious Bronchitis Coronavirus Strain Exhibiting a Classical Genotype but Altered Antigenicity, Pathogenicity, and Innate Immunity Profile Hui-Wen Chen PhD, National Taiwan University Replication dynamics of CEK cell-adapted ArkDPI infectious bronchitis virus vaccine in chickens Vicky van Santen PhD, Auburn University Assessment of the Binding Characteristics of Arkansas-type Infectious Bronchitis Virus Spike Proteins Christina Leyson PhD, University of Georgia	 Data Sheilena Brookshire DVM, Sedona AG Services/ Elanco Increased Incidence of Gizzard Erosions in Broiler Chickens and Turkey Poults: a Consequence of Modern Poultry Farming? H. L. Shivaprasad, University of California, Davis Gross and Histopathologic Evaluation of Gizzard Erosions in Broilers Jessica Hockaday DVM, Mississippi State University Poultry Research and Diagnostic Laboratory Problem Solving Excess Mortality due to Chronic Polyserositis in Young Broilers (14-28 days of age) in a Large Commercial Broiler Complex G. Donald Ritter DVM, Mountaire Farms Inc. Sentinel Bird Project: Southern Style Timothy Cummings DVM, MS, ACPV, Zoetis Recommended changes to the Elanco Broiler Disease Reference Guide are valuable for capturing global data on severity and
3:45 PM 4:00 PM 4:15 PM 4:30 PM	of 40 years of Brazilian IBV variants Claudia Carranza MSc, DVM, USP / Quimtia Identification of an Infectious Bronchitis Coronavirus Strain Exhibiting a Classical Genotype but Altered Antigenicity, Pathogenicity, and Innate Immunity Profile Hui-Wen Chen PhD, National Taiwan University Replication dynamics of CEK cell-adapted ArkDPI infectious bronchitis virus vaccine in chickens Vicky van Santen PhD, Auburn University Assessment of the Binding Characteristics of Arkansas-type Infectious Bronchitis Virus Spike Proteins Christina Leyson PhD, University of Georgia Molecular characterization of the new Arkansas GA vaccine Brian Jordan PhD, The University of Georgia	Increased Incidence of Gizzard Erosions in Broiler Chickens and Turkey Poults: a Consequence of Modern Poultry Farming? H. L. Shivaprasad, University of California, Davis Gross and Histopathologic Evaluation of Gizzard Erosions in Broilers Jessica Hockaday DVM, Mississippi State University Poultry Research and Diagnostic Laboratory Problem Solving Excess Mortality due to Chronic Polyserositis in Young Broilers (14-28 days of age) in a Large Commercial Broiler Complex G. Donald Ritter DVM, Mountaire Farms Inc. Sentinel Bird Project: Southern Style Timothy Cummings DVM, MS, ACPV, Zoetis Recommended changes to the Elanco Broiler Disease Reference Guide are valuable for capturing global data on severity and incidence of important poultry intestinal diseases Alexandre Zocche





	Room Sagamore 4	Room Sagamore 3	
Topic	Virology	Bacteriology	
Moderator	Don Ritter	Mohamed El-Gazzar	
8:00 AM	A Field Study of Broiler Flocks in Latin America to Evaluate Zootechnical Parameters, Molecular Epidemiology, and Condemnation Indexes, with the use of a Live IBD Vaccine Versus HVT-IBD Vector and Immune-Complex Vaccines, in High IBDV Challenge Areas. Carlos Viteri DVM, Phibro animal health	Fowl Cholera: Updated Control Strategies in US Broiler Breeders Jaime Ruiz DVM, Elanco Animal Health	
8:15 AM	Recombinant vaccine could control ND problem in high ND challenged area Husam Al Bakri Vet, MSD	Effects of Feeding Diamond V Original XPC on Avian Pathogenic E coli Prevalence and Antibiotic Resistance of E. coli in Ceca Sample: Taken From Commercial Broilers and Turkeys Hilary Pavlidis Ph.D. Diamond V	
8:30 AM	Double Recombinant Herpesvirus of Turkey for Protection Against Diseases Caused by Newcastle Disease Virus, Infectious Bursal Disease Virus and Marek's Disease Virus. Julio Cruz Coy DVM, MS, PhD, Diplomate ACPV, Merck Animal Health	A case of Erysipelothrix rhusiopathiae in turkey poults Seiche Genge DVM, MSpVM, DACPV, Cargill Turkey Production	
8:45 AM	Onset of immunity of a new double HVT-recombinant (rHVT-F-VP2) Rik Koopman DVM, MSD AH	Enterococcal spondylitis - A disease of economic impotance in broilers caused by Enterococcus cecorum Daniel Karunakaran DVM PhD, Agro BioSciences	
9:00 AM	Immunological Response and Protection of Chickens Using an Attenuated Recombinant Newcastle Disease Virus Vaccine in ovo Valerie Marcano, PhD Candidate, University of Georgia CVM	Pathogenesis of enterococcal spondylitis Laura Chen DVM, Nort Carolina State University, College of Veterinary Medicine	
9:15 AM	Field Safety Studies of a Novel Laryngotracheitis-Newcastle Disease-Turkey Herpesvirus Recombinant Vaccine in Commercial Broilers Faris Jirjis DVM, PhD, Dipl. ACPV, Merck Animal Health	Prevention of Enterococcus cecorum Induced Spondyliti (kinkyback) Using Direct Fed Microbial Products in Feed Meaga Slater DVM, Poultry Diagnostic & Research Center University of Georgia	
9:30 AM	Br	eak	
Topic	Virology	Bacteriology	
Moderator	Kevin Maschek	Vijay Durairaj	
9:45 AM	Onset of Immunity of an HVT+IBD Vector Vaccine Francisco Rojo DVM, Merial Select Inc	Ornithobacterium rhinotracheale (ORT): Never ending story Hafe Mohamed Hafez, Institute of Poultry Diseases, Free University Berlin	
10:00 AM	Rapid and specific identification of Newcastle disease virus, infectious laryngotracheitis virus and avian metapneumovirus by real time reverse transcriptase-polymerase chain reaction with an internal positive control Jongseo Mo DVM, University of Georgia, PDRC	Effects of Various Anticoccidials as Bio-shuttle Alternatives fo Broilers Under a Necrotic Enteritis Challenge Manuel Da Costa DVM PhD, Zoetis	
10:15 AM	The impact of day of age gel spray on hatchery respiratory vaccination. John McCarty DVM, MAM, <i>Merial</i>	Bacteriological findings from duodenal samples with Focal Duodena Necrosis Ana Villegas DVM, MS, University of Georgia	
10:30 AM	Whole genome sequencing of formalin-fixed paraffin-embedded pigeon tissues reveals continuous circulation and evolution of sub- genotype VIa Newcastle disease viruses in the United States Kiril Dimitrov DVM, PhD, USDA/ARS/USNPRC/SEPRL	A novel global multicentre study on necrotic enteritis and coccidiosi to be conducted in 2017 Jeff Wilson PhD, DVM, Novometrix Research Inc	
10:45 AM	How to create Broad IB protection against new emerging IB variants around the world? Without developing a new vaccine for every new IB variant. Rik Koopman DVM, <i>MSD AH</i>	Does Early Exposure to Clostridium Perfringens or Environmen of Used Litter Impact the Pathogenicity of a Severe Clostridium Perfringens Oral Challenge at 17 Days in a Necrotic Enteriti Challenge Model? Stephen Davis DVM, Colorado Quality Research, Inc.	
11:00 AM	Safety and protection efficacy of cell line adapted infectious laryngotracheitis virus (ILTV) BdeltaORFC strain following in ovo vaccination Maricarmen Garcia PhD, The University of Georgia, Athens GA	Interaction of Different Strains of Coccidia and Clostridiur perfringens to Produce Necrotic Enteritis in Chickens Callie Pierc DVM, UGA PDRC	
	Room Sagamore 3		
11:15 AM	AAAP History Video		
11:30 AM		ompany Development; the Era of Entrepreneurs	
	Lunch Break		

Monday, July 24, 2017 (continued)

Topic	Virology	Bacteriology
Moderator	Becky Tilley	Susan Trock
	Room Sagamore 4	Room Sagamore 3
1:15 PM	Prevalence of oncogenic viruses in layers flocks displaying tumors in Egypt Tamer Sharafeldin DVM, MVSc, PhD, Veterinary Diagnostic Pathology LLC	Genomic variation of Ornithobacterium rhinotracheale isolated from chicken and turkeys in the United States Muhammad Nisar DVM M. Phil, PhD, University of Minnesota
1:30 PM	Development of CRISPR/Cas9 transgenes to target Marek's disease virus Karel Schat DVM, PhD, Cornell University	Broiler pen study comparing different salmonella exposure times in a necrotic enteritis challenge model Kalen Cookson DVM, MAM, Dp ACPV, Zoetis
1:45 PM	New Generation Marek's Disease Serotype 1 Vaccine Mariana Sa e Silva DMV, MsC, PhD, <i>Merial</i>	Collection, isolation, and serotyping of Salmonella from hous environmental samples and organs in broiler chickens Martha Pulid Landinez DVM, MS, PhD, <i>Mississippi State University</i>
2:00 PM	Genetic characterization of chicken astroviruses isolated in South- ern United States. Alejandro Banda DVM, Mississippi State University	Gut microflora composition determines the outcome of Campylobacter jejuni colonization in chickens Silke Rautenschlei PhD, Clinic for Poultry, University of Veterinary Medicine, Hannover
2:15 PM	White Chick Syndrome Associated with Chicken Astrovirus in On- tario, Canada Kathleen Long DVM, Maple Leaf Foods	Characterization of a New Bacteria, Ochrobactrum sp., as a Co infectant with Newcastle Disease Virus in Chickens Experiencin High Mortality David Swayne DVM, PhD, USDA/ARS/SEPRL
Topic	Virology	Antibiotics
2:30 PM	Expression of Chicken Parvovirus Structural Proteins VP1 and VP2 Using a Pichia pastoris System Nastassja Ortega-Heinly M.A, <i>Charles</i> <i>River Laboratories</i>	Quantifying Antimicrobial Use in Poultry Production Randall Singe DVM, MPVM, PhD, University of Minnesota
Торіс	Parasitology	Antibiotics
2:45 PM	Control and Treatment of Gastrointestinal Nematodes with a High- ly Stable, Effective, and Safe form of Fenbendazole (Safe-guard® AquaSol) Improves Commercial Broiler Performance Blayne Mozisek DVM, Merck Animal Health	Comparison of the Antimicrobial Susceptibility of Escherichia co Isolates Associated with Colisepticemia in Commercial Turkeys t Sulfonamide Compounds via Disc Diffusion Kabel Robbins DVN Butterball, LLC
3:00 PM	Br	eak
Topic	Parasitology	Management
Moderator	Kabel Robbins	Armando Mirande
3:15 PM	Efficacy of fluralaner administered via drinking water against natu- ral D. gallinae infestations in layers Annie Sigognault Flochlay, Merck Animal Health	Georgia's Grower Biosecurity Education Effort for AI Prevention Description, Results and Follow-Up Louise Dufour-Zavala DVM, MAN ACPV, GPLN
	Increasing Impact of Pad Mite (Dermanyssus gallings) and Northern	
3:30PM	Increasing Impact of Red Mite (Dermanyssus gallinae) and Northern Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health	Enteric Field Cases in Commercial Pullets and Layers Alexandr Mendoza-Reilley DVM, MS, Dipl. ACPV, Merck Animal Health
3:30PM Topic	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault	•
	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health	Mendoza-Reilley DVM, MS, Dipl. ACPV, <i>Merck Animal Health</i> Management
Торіс	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health Enteric Health Intestinal Integrity Index: an updated tool for evaluating broiler gut health and predicting performance Jeff Wilson PhD, DVM, Novometrix	Mendoza-Reilley DVM, MS, Dipl. ACPV, <i>Merck Animal Health</i> Management Strange Causes of Traumatic Lesions in Poultry Martha Pulic Landinez DVM, MS, PhD, <i>Mississippi State University</i>
Topic 3:45 PM	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health Intestinal Integrity Index: an updated tool for evaluating broiler gut health and predicting performance Jeff Wilson PhD, DVM, Novometrix Research Inc. Evaluation of a Probiotic Growth Promoter and its Impact on Intes- tinal Health, Immune Response and Productive Parameters Andres	Mendoza-Reilley DVM, MS, Dipl. ACPV, <i>Merck Animal Health</i> Management Strange Causes of Traumatic Lesions in Poultry Martha Pulic Landinez DVM, MS, PhD, <i>Mississippi State University</i> Determination of a no-effect level for Nicarbazin in broiler breeder hens Kenneth Bafundo PhD, <i>Phibro Animal Health Corporation</i> An Analysis of Recent Gallibacterium anatis Isolations: Som
Topic 3:45 PM 4:00 PM	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health Enteric Health Intestinal Integrity Index: an updated tool for evaluating broiler gut health and predicting performance Jeff Wilson PhD, DVM, Novometrix Research Inc. Evaluation of a Probiotic Growth Promoter and its Impact on Intes- tinal Health, Immune Response and Productive Parameters Andres Rodriguez-Avila DVM MSc, University of Georgia Evaluation of Bacillus subtilis Against Some of the Common Enteropathogens in Broiler Chickens Nitin Kurkure, Nagpur Veterinary	Mendoza-Reilley DVM, MS, Dipl. ACPV, Merck Animal Health Management Strange Causes of Traumatic Lesions in Poultry Martha Pulic Landinez DVM, MS, PhD, Mississippi State University Determination of a no-effect level for Nicarbazin in broiler breed hens Kenneth Bafundo PhD, Phibro Animal Health Corporation An Analysis of Recent Gallibacterium anatis Isolations: Som Interesting and Unusual Findings Natalie Armour, BVSc, MAM, Ph. Dipl. ACPV, Mississippi State University, CVM, DPPM Impact of Husbandry Management on Chicken Intestin
Topic 3:45 PM 4:00 PM 4:15 PM	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health Interic Health Intestinal Integrity Index: an updated tool for evaluating broiler gut health and predicting performance Jeff Wilson PhD, DVM, Novometrix Research Inc. Evaluation of a Probiotic Growth Promoter and its Impact on Intes- tinal Health, Immune Response and Productive Parameters Andres Rodriguez-Avila DVM MSc, University of Georgia Evaluation of Bacillus subtilis Against Some of the Common Enteropathogens in Broiler Chickens Nitin Kurkure, Nagpur Veterinary College Impact of vaccine stabilizers on viability of probiotics administered	Mendoza-Reilley DVM, MS, Dipl. ACPV, Merck Animal Health Management Strange Causes of Traumatic Lesions in Poultry Martha Pulic Landinez DVM, MS, PhD, Mississippi State University Determination of a no-effect level for Nicarbazin in broiler breede hens Kenneth Bafundo PhD, Phibro Animal Health Corporation An Analysis of Recent Gallibacterium anatis Isolations: Som Interesting and Unusual Findings Natalie Armour, BVSc, MAM, Phi Dipl. ACPV, Mississippi State University, CVM, DPPM Impact of Husbandry Management on Chicken Intestine Microbiomes Won Suk Kim Veterinary Student, Western University Health Sciences
Topic 3:45 PM 4:00 PM 4:15 PM 4:30 PM	Fowl Mite (Ornithonyssus sylviarum) Infestations on Welfare in Layers, and Effect of a New Fluralaner Systemic Mite Treatment on Welfare-indicating Production Parameters Annie Sigognault Flochlay, Merck Animal Health Enteric Health Intestinal Integrity Index: an updated tool for evaluating broiler gut health and predicting performance Jeff Wilson PhD, DVM, Novometrix Research Inc. Evaluation of a Probiotic Growth Promoter and its Impact on Intes- tinal Health, Immune Response and Productive Parameters Andres Rodriguez-Avila DVM MSc, University of Georgia Evaluation of Bacillus subtilis Against Some of the Common Enteropathogens in Broiler Chickens Nitin Kurkure, Nagpur Veterinary College Impact of vaccine stabilizers on viability of probiotics administered via the drinking water. James Barton DVM, Novozymes Investigating the Use of an Enterotropic Newcastle Disease Virus as a Recombinant Vaccine Platform Targeting Poultry Enteric Viruses	Mendoza-Reilley DVM, MS, Dipl. ACPV, Merck Animal Health Management Strange Causes of Traumatic Lesions in Poultry Martha Pulid Landinez DVM, MS, PhD, Mississippi State University Determination of a no-effect level for Nicarbazin in broiler breede hens Kenneth Bafundo PhD, Phibro Animal Health Corporation An Analysis of Recent Gallibacterium anatis Isolations: Som Interesting and Unusual Findings Natalie Armour, BVSc, MAM, PhI Dipl. ACPV, Mississippi State University, CVM, DPPM Impact of Husbandry Management on Chicken Intestina: Microbiomes Won Suk Kim Veterinary Student, Western University of Health Sciences Poorly Feathered Broiler Chicken Flocks at Slaughter: A Retrospective





	Room Sagamore 4	Room Sagamore 3
Topic	Mycoplasma	Protozoa
Moderator	Natalie Armour	Charles Broussard
8:00 AM	Core Genome Multilocus Sequence Typing Assay (cgmlst): A Global, Standardized and Reliable Method for Typing of Mycoplasma gallisepticum Mostafa Ghanem DVM, MS, PhD, The Ohio State University	One Company's Quest to Eradicate Histomoniasis in Broiler Breede Pullets Mark Burleson DVM, MS, DACPV, Wayne Farms LLC
8:15 AM	A Guide for the Use and Application of Mycoplasma synoviae (MS) and Mycoplasma iowae (MI) Multilocus Sequence Typing (MLST) Public Database Mohamed El-Gazzar, The Ohio State University	Characterization of gel Versus Spray Application for High Oocyst and low Oocyst Dose Coccidia Vaccinations Laura Tensa DVM, University of Georgia
8:30 AM	Control of Mycoplasma Synoviae infections with the use of Nobilis MS-live vaccine Rik Koopman DVM, <i>MSD AH</i>	Comparison of different applications of a Coccidia vaccine Grac Albanese PhD Student, <i>University of Georgia</i>
8:45 AM	Mycoplasma synoviae Field Isolate and Live Vaccine Evaluation Naola Ferguson-Noel PhD, University of Georgia	Determining the extent of coccidia drug restoration when broiler are grown with bioshuttle program Emily Kimminau M.S., Texas A & I University
9:00 AM	SPF leghorn study comparing the performance of two live Mycoplasma gallisepticum (MG) F-strain vaccines given via eye drop with or without co-administration of live infectious laryngotracheitis (ILT) vaccine Kalen Cookson DVM, MAM, Dpl ACPV, Zoetis	Supplementation of an Oregano Essential oil Product via Drinking Water Does not Interfere With Development of Coccidial Immunity in Broilers Following Anticoccidial Vaccination DAVID HARRINGTON BS MSc PhD, ANPARIO PLC
9:15 AM	Evaluation of Infectious Laryngotracheitis CEO Vaccine in Mycoplasma synoviae Positive Broilers Victoria Drouet D.V.M., M.A.M., <i>Koch Foods</i>	The Relationship Between Eimeria Oocyst Levels in Poultry Litte and Broiler Performance Mark Jenkins PhD, ARS-USDA
9:30 AM	Br	eak
Торіс	Salmonella	Protozoa
Moderator	Alexandra Rilley	Elena Behnke
9:45 AM	Evaluation of ELISA Titers from Multiple Salmonella Vaccination Programs Brenda Glidewell MS, GA Poultry Lab	Evaluation of the Long Term Effect on Performance and Carcas Composition of Salinomycin Inclusion in Diets of Coccidiosi Vaccinated Broilers Ivan Alvarado PhD, Merck Animal Health
10:00 AM	Development of a Rapid QCM-Based Pathogenic Salmonella Serovar Detection System: Preliminary Laboratory Results. David Sierra MSE, PhD, <i>UC Davis</i>	Coccidiosis Control with a Hybrid ("Bio-shuttle") Program Linne Newman DVM, Merck Animal Health
10:15 AM	Understanding Antimicrobial Resistance in Salmonella Heidelberg Using RNA-Seq Maurice Pitesky DVM, UC Davis School of Veterinary Medicine	Turkey Coccidiosis and current control programs Greg Mathis PhE Southern Poultry Research, Inc.
10:30 AM	Evaluation of Target Genes in the Salmonella Genome for the Selection of Autogenous Vaccine Strains Roxana Sanchez Ingunza PhD, <i>Ceva Animal Health</i>	Are We Keeping Pace With the Coccidia? Steve Fitz-Coy PhD, Merck AF
	Application of Intragenic Sequence Ribotyping and DNA microarray hybridization to resolve issues of disagreement with the Kauffman-	Comparison between McMaster and Mini-FLOTAC techniques for the enumeration of Eimeria oocysts in poultry excreta Cristian
10:45 AM	White-LeMinor scheme for Salmonella enterica ISR group UN0006 Jean Guard DVM, PhD, US Department of Agriculture	Bortoluzzi, University of Georgia
10:45 AM 11:00 AM		Bortoluzzi, University of Georgia Evaluation of Diatomaceous Earth as a Treatment of Coccidiosis i Poultry Rocio Crespo DVM, AHFSL (WADDL, WSU)
	Jean Guard DVM, PhD, US Department of Agriculture Comparison of a live S. kentucky isolate and a commercial live S. typhimurium vaccine for control of S. heidelberg in broilers. Charles	Evaluation of Diatomaceous Earth as a Treatment of Coccidiosis i
11:00 AM	Jean Guard DVM, PhD, US Department of Agriculture Comparison of a live S. kentucky isolate and a commercial live S. typhimurium vaccine for control of S. heidelberg in broilers. Charles Hofacre DVM, The University of Georgia Natural case and experimental infection of Salmonella arizonae in	Evaluation of Diatomaceous Earth as a Treatment of Coccidiosis i Poultry Rocio Crespo DVM, AHFSL (WADDL, WSU) The Effect of Single Species Coccidia Exposure on the Currer Industry Broiler Genetic Strains When Exposed at Varying Ages Sar

AAAP Poster Session

Room

Avian Influenza

Assessing the pathogenicity and risk fitness of Korean H9N2 viruses in mouse models Min Kang, Chonbuk National University

Infectivity and Transmissibility of Highly Pathogenic Avian Influenza Viruses in Mallards Mary Pantin-Jackwood DVM, Southeast Poultry Research Lab, US National Poultry Research Center, US Dept. of Agriculture-Agriculture

Optimization Of Inactivated H5N9 HPAI Vaccine and Inactivated Salmonella Enterica Serovar Typhimurium Vaccine With Antigen Dose And Prime-boost Regimen In Domestic Ducks Jiho Lee DVM, Konkuk university

Bacteriology

Clostridial dermatitis - a disease of economic concern Kakambi Nagaraja PhD, University of Minnesota

Exploration of mcr-1 Associated Resistance in Avian Pathogenic Escherichia coli (APEC) and Avian Fecal E. coli (AFEC) from Production Birds in the US and Worldwide. Catherine Logue PhD, *Iowa State University*

Descriptive analysis of affected Focal Duodenal Necrosis flocks based on a questionnaire survey. Ana Villegas DVM, MS, University of Georgia

Experimental infection of egg laying chickens with Clostridium perfringens strains isolated from Focal Duodenal Necrosis lesions Ana Villegas DVM, MS, *University of Georgia*

Bacteriological Investigation of Broiler Chickens with Lameness from 2012 to 2016, Korea Seong-Joon Joh, *Animal and Plant Quarantine Agency*

Reduction of Salmonella Enteritidis in Neonatal Broiler Chicks by Treatment of Probiotics Kyu-jik Kim DVM, Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University

Using foodborne outbreak strains of Salmonella Heidelberg to investigate Salmonella colonization in muscle, bone, and skin of experimentally infected turkeys. Claire-Sophie C. Rimet, *Poultry Diagnostic and Research Center*

Control of Avian Pathogenic E. coli (APEC) using Quorum Sensing Inhibitor Small Molecules. Gireesh Rajashekara DVM, Ph.D., The Ohio State University

Diagnostics

Evidence for the Removal of the Pullorum-Typhoid Agglutination Test from the Requirements for the National Poultry Improvement Plan's Salmonella Enteritidis Clean Classification Doug Waltman PhD, Georgia Poultry Laboratory Network

Application of Histopathology and Simple Statistics for Evaluating Eimeria infection Joan Schrader DVM, MS, Dipl. ACPV, Schering Plough Animal Health

In Vivo Validation of a qPCR for the Recovery of a New HVT-ND Vectored Vaccine Administered at Day-old Broiler Chicks Andrea Delvecchio DVM, *MERIAL SAS*

Enzyme-Linked Immunosorbent Assay Using Chicken Parvovirus Recombinant VP1 and VP2 Derived From a Pichia pastoris Expression System Roxanne Lopardo, *Charles River Laboratories*

Necropsy Examination of Zebra Finches from a Single Laboratory Colony John Roberts DVM, *Thompson Bishop Sparks State Lab*

Next Generation Sequencing as a Tool for Disease Diagnosis in Poultry Sunil Kumar DVM, PhD, University of Minnesota

Infectious Bronchitis Virus

Isolation and Identification of Infectious Bronchitis Virus from Commercial Chickens in Peru Melanie Caballero, *QUIMTIA S.A.*

Administration of Infectious Bronchitis Vaccines by gel Drop as an Alternative to Spray Vaccination of day-old Broilers Vilmos Palya DVM, MSc, Scientific Support and Investigation Unit, Ceva Phylaxia, Ceva Animal Health

Can We Improve Protection Against US Variant IB Viruses by Adding the European Vaccine Strain 4/91 to a Conventional IBV Program? Brian Ladman PhD, University of Delaware

Partial Sequencing of the S1 Region from 21 Field Isolates of Infectious Bronchitis Virus of Costa Rica Collected in the Period 1992-2016. First Report of Georgia-13, and VRAF-047 Variants. Carlos Jiménez DVM, Ph.D., National University of Costa Rica

The Mucolytic Effect of Commercial Expectorant with Herbal Extracts on Specific Pathogen Free Chickens Infected with Infectious Bronchitis Virus (IBV) Da Ye Lee, *Gueulri Advanced Biotechnology*

Immunology

Local Innate Responses in Conjunctiva, Harderian Gland and Trachea after Ocular or Oral Inoculation with a Virulent Strain of Infectious Laryngotracheitis Virus (ILTV). Gabriela Beltrán DVM, University of Georgia

Characterization of the Duck (Anas platyrynchos) Monocyte Response to Nigericin Calvin Keeler PhD, University of Delaware

Management

Clinical Investigation of Three Breeder Flock Egg Production Drops Marissa Garry, AgForte

Status of Disease Management and Veterinary Service Delivery for Increased Poultry Production Anthony Akunzule, Veterinary Services Directorate/International Food Policy Research

Testicular Histomorphometrics Including Sertoli Cell Quantitation for Evaluating Fertility in Commercial Roosters Floyd Wilson DVM, *MS Veterinary Research and Diagnostic Laboratory*

Mycoplasma

Evaluation of the Cypher One Automated Hemagglutination Analyzer for use in Mycoplasma gallisepticum and Mycoplasma synoviae Hemagglutination Inhibition Assays Nicki Smith, *Georgia Poultry Laboratory Network*

Prevalence of Mycoplasma Synoviae and Impact on Productivity Jean-Pierre Vaillancourt DVM, MSc, PhD, University of Montreal

Parasitology

Evaluation of Diatomaceous Earth as a Treatment of Coccidiosis in Poultry Rocio Crespo DVM, *AHFSL (WADDL, WSU)*

Efficacy and Safety of Fluralaner Administered Orally Against Northern Fowl Mite (Ornithonyssus sylviarum) Infestations in Layers Annie Sigognault Flochlay,

Vaccinations

A biodegradable microparticle vaccine of femtomole-dosed peptide antigens protects against Infectious Bursal Disease virus and shows growth promotion and better feed efficiency in chicken Erfan Chowdhury, *Auburn University*

Optimization Of Inactivated H5N9 HPAI Vaccine and Inactivated Salmonella Enterica Serovar Typhimurium Vaccine With Antigen Dose And Prime-boost Regimen In Domestic Ducks Jiho Lee DVM, Konkuk university

Efficacy and Safety of Inactivated Oil-emulsion H9N2 Vaccine Supplemented with Lactic-acid Bacteria Jei-Hyun Jeong DVM,

The Impact of Water or Gel Day of Age Spray on Chick Cloacal Temperature John McCarty DVM, MAM, *Merial*

Importance of the Immune System Integrity for the Development of Future Commercial Layers After a Single Application of the Turkey Herpesvirus (HVT) Marek's Vector Vaccine and Infectious Bursal Disease (IBD) Together with a SB-1 Vaccine Francisco Rojo DVM, Merial Select Inc

Clinical Evaluation of the Continuous Use of a Vector Vaccine to Control Gumboro Disease in Colombia Francisco Rojo DVM, *Merial Select Inc*

Quality Insurance Audits Implementation in the Context of Mass Application of Live Respiratory Vaccines of Poultry in Field Conditions Andrea Delvecchio DVM, *MERIAL SAS*

Expression of Partial Capsid Related Immuno-Proteins of Adenovirus Serotype 4 as Vaccine Cadidate by Ultilizing Yeast Vector Van Dam Lai DVM, Chungbuk National University, CVM

Comparison of Optical and Digital Cellometry at the Hatchery to Monitor Cell Viability During Marek's Vaccination Fernando Lozano PhD, Ceva Animal Health

Virology

Isolation of Fowl Adenoviruses from Broiler, Layer and Turkey Cases in Pennsylvania Huaguang Lu DVM,

Differential activation of kinase pathways during Marek's disease virus (MDV) replication in vitro and in situ Keith Jarosinski PhD, University of Illinois at Urbana-Champaign

Mutations That May be Contributing to Antigenic Drift in Very Virulent Infectious Bursal Disease Viruses Daral Jackwood PhD, The Ohio State University

The efficacy of three experimental recombinant turkey herpesvirus vaccines against the H5N2 highly pathogenic avian influenza virus from the 2014/2015 North American outbreak Kateri Bertran Dols PhD, Southeast Poultry Research Laboratory, USDA-ARS

Isolation and genotyping of fowl adenovirus associated with inclusion body hepatitis in commercial chickens in Peru Melanie Caballero, *QUIMTIA S.A.*

Isolation and Genetic Characterization of a Novel Pheasant-origin Orthoreoviru in Pennsylvania Huaguang Lu DVM,

ASSESSMENT CHICKEN ANEMIA VIRUS ASSOCIATION WITH PROBLEM FARMS IN COLOMBIA. Francisco Perozo DVM, Merial

Assessment of the Bioequivalence between Freeze dried Newcastle disease VG/GA strain vaccine (AVINEW®) and its Effervescent Tablet Presentation (AVINEW NeO®). Francisco Perozo DVM, Merial

Emergence of Runting-Stunting Syndrome in Ontario, Canada Kathleen Long DVM,

Promoter efficacy analysis of long terminal repeat of subgroup K avian leukosis viruses Weisheng Cao, South China Agricutural University (SCAU)

Molecular Characterization of a strain of Infectious Laryngotracheitis Upon Serial Passage in Eggs, Birds, and Tissue Culture Cynthia Boettger MS, University of Delaware

Evaluation of feedstuffs for the presence of avian influenza virus (AIV) collected from feed mills and poultry farms and their role in spreading of AIV Yuko Sato DVM, *lowa State University*

Effect of Infectious Bursal Disease Virus on the Clinical and Pathological Effects of Genotype VII Velogenic Venezuelan Newcastle disease virus Rosmar Marcano Martí MS, University Central of Venezuela **Molecular Characterization of Clinically Relevant Reoviruses** Rodrigo Gallardo DVM, PhD, Dipl.ACPV,

Wealth of Knowledge

The Prevalence and Severity of Skeletal Disease and Foot Pad Dermatitis in US Broiler Chickens between 1995 and 2016 Kenneth Opengart MS, DVM, PhD, DACPV, *Keystone Foods*

VFD and Prescription Compliance and Solutions for Poultry Veterinarians Steven Clark DVM, *Devenish Nutrition*, *LLC*

Poultry Diagnostic and Research Center Diagnostic Services has a new LIMS System. What Does That Mean for you? Susan Williams DVM, University of Georgia, PDRC

Possible diabetes in a hyperglycemic broiler breeder Jean-Pierre Vaillancourt PhD, University of Montreal

Evaluation of Medium Chain Fatty Acids Alone or with a Phytogenic on Tom Turkey Performance and Lesion Development Following Challenge with Histomonas meleagridis Nicholas Evans PhD, PMI Nutritional Additives

The respiratory microbiome of chickens: Developing protocols for virome analysis Monique Robinson B.S., University of Delaware

Development of Optimal on Farm Composting Methods Joseph Giambrone PhD, *Auburn University*

Collaboration with Cuban Institutions Joseph Giambrone PhD, Auburn University

Assessment of contamination of barn entrance when biosecurity breaches occur Jean-Pierre Vaillancourt DVM, MSc, PhD, University of Montreal

Biosecurity: it's really not boring Nathaniel Tablante DVM, MPVM, MS, DACPV, University of Maryland College Park

Case report: aggressive melanoma in a back yard chicken James Davis DVM, *Georgia Poultry Laboratory Network*

Challenges in data management associated with a multi-age breeding and growing pheasant operation Rachel Reese NCSU CVM DVM 2020 Candidate, North Carolina State University CVM

2016 Poultry Health Management School: Continuing Education for the Poultry Health Professional Robert Porter DVM, PhD, University of Minnesota

Field Trials of low Atmospheric Pressure Stunning for the Depopulation of end of lay Broiler Breeder and Layer Flocks in Alberta, Canada Benjamin Schlegel DVM, Poultry Health Services and the Institute for Applied Poultry Technologies

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AAAP/AVMA Future Annual Convention dates and locations

Future Convention Cities

2018	July 13-17	Denver, CO
2019	July 19-23	Washington, D.C.
2020	July 30-August 4	San Diego, CA



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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.