

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.



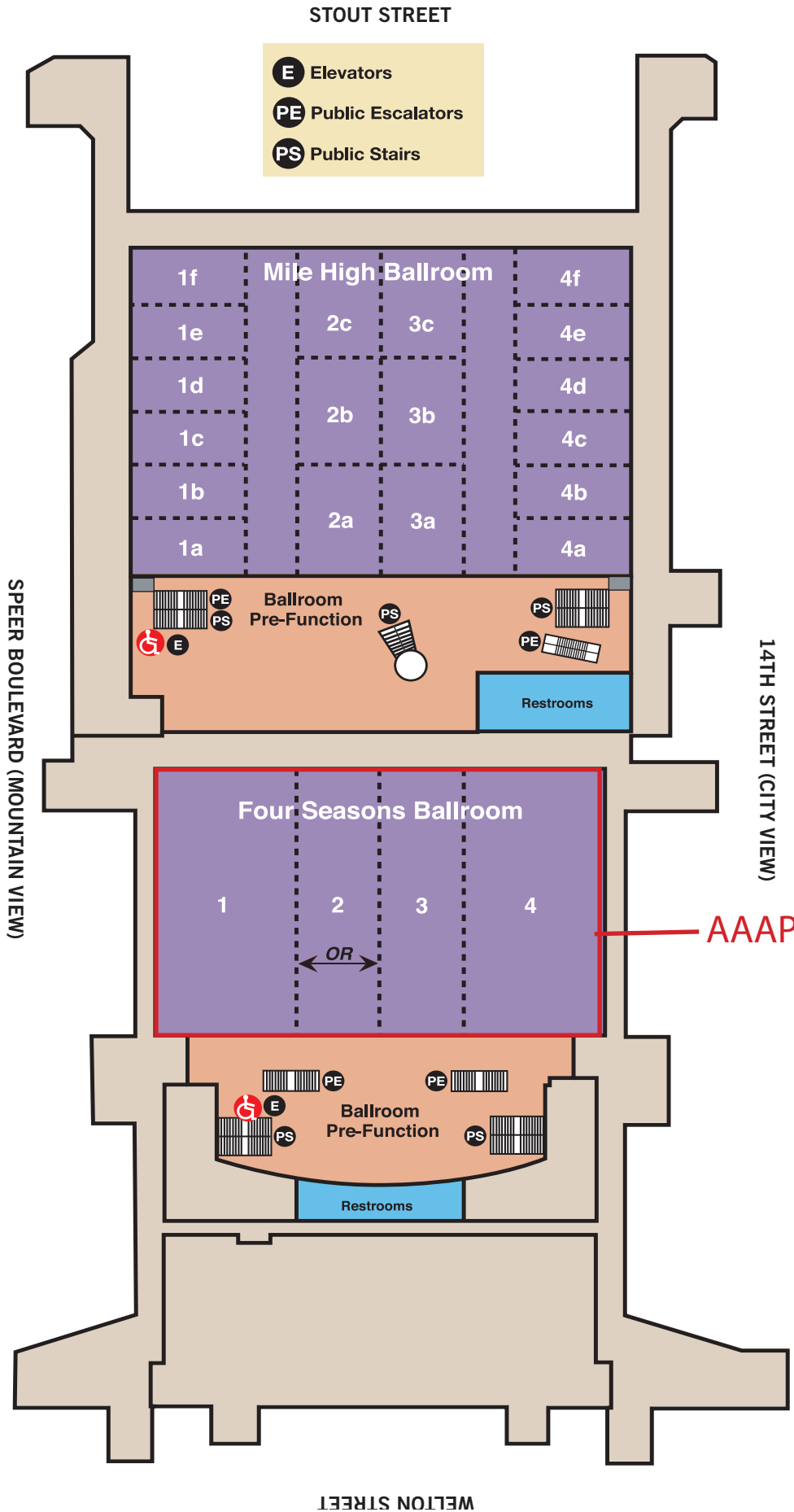
Denver, CO
July 13-17, 2018

2018 AAAP Events Schedule

| Name of Group | Meeting Date | Req. Time | End Time | Location | Room |
|---|-------------------|-----------|----------|-----------------|-------------------------|
| AAAP Board of Directors Meetings | | | | | |
| AAAP Board of Directors | Tuesday, July 10 | 7:00AM | 5:00PM | Sheraton | Directors Row F |
| AAAP Board of Directors | Friday, July 13 | 1:00 PM | 3:30PM | Sheraton | Century |
| AAAP Past Presidents Luncheon | Sunday, July 15 | 12:15PM | 1:45PM | Hyatt Regency | Mineral Hall F |
| AAAP Board of Directors - Committee Chairs | Monday, July 16 | 12:00 PM | 5:00PM | Sheraton | Vail |
| AAAP Foundation Board of Directors | Tuesday, July 17 | 7:00 AM | 10:00 AM | Hyatt Regency | Centennial Ballroom A |
| Committee Meetings | | | | | |
| AAAP Committee Meetings are open to all members. Walk-ins are welcome! | | | | | |
| Histopathology/Case Report Interest Group | Friday, July 13 | 12:00 PM | 5:00PM | Sheraton | Denver |
| Small Flocks Interest Group | Friday, July 13 | 7:00 AM | 8:00AM | Conference Ctr. | Mile High Ballroom 1 |
| AAAP Auditing Committee | Friday, July 13 | 4:30 PM | 5:30 PM | Conference Ctr. | TBA |
| AAAP Committee Chairs and BOD Meeting | Saturday, July 14 | 12:15PM | 1:25PM | Sheraton | Governors Square 10 |
| Awards Committee | Saturday, July 14 | 1:30PM | 2:25PM | Sheraton | Plaza Court 2 |
| Avian Diseases Advisory Board | Saturday, July 14 | 1:30PM | 2:25PM | Sheraton | Plaza Court 1 |
| Avian Diseases Manual Editorial Board | Saturday, July 14 | 1:30PM | 2:25PM | Sheraton | Plaza Court 3 |
| Digital Communications Committee | Saturday, July 14 | 1:30 PM | 2:25 PM | Sheraton | Governors Square 17 |
| Public Trust Task Force | Saturday, July 14 | 1:30 PM | 2:25 PM | Sheraton | Governors Square 16 |
| Toxic, Infectious, Miscellaneous & Emerging Diseases Committee | Saturday, July 14 | 1:30PM | 3:25PM | Sheraton | Governors Square 14 |
| Avian Diseases Editorial Board | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Plaza Court 4 |
| Enteric Diseases Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Governors Square 15 |
| Epidemiology Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Governors Sqaare 9 |
| Membership Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Plaza Court 6 |
| Preceptorship Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Plaza Court 7 |
| Research Priorities Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Governors Square 16 |
| Small Flocks Committee | Saturday, July 14 | 2:30PM | 3:25PM | Sheraton | Plaza Court 5 |
| Diseases of Public Health Significance and Food Safety Committees | Saturday, July 14 | 3:30PM | 4:25PM | Sheraton | Plaza Court 7 |
| Drugs and Therapeutics Committee | Saturday, July 14 | 3:30PM | 4:25PM | Sheraton | Governors Square 15 |
| Education Committee | Saturday, July 14 | 3:30PM | 4:25PM | Sheraton | Plaza Court 4 |
| History Committee | Saturday, July 14 | 3:30PM | 4:25PM | Sheraton | Plaza Court 6 |
| LAC Committee | Saturday, July 14 | 3:30PM | 4:25PM | Sheraton | Plaza Court 3 |
| Animal Welfare Committee | Saturday, July 14 | 3:30PM | 5:25PM | Sheraton | Plaza Ballroom DE |
| Respiratory Diseases Committee | Saturday, July 14 | 3:30PM | 5:25PM | Sheraton | Governors Square 12 |
| Tumor Virus Committee | Saturday, July 14 | 4:30PM | 5:25PM | Sheraton | Plaza Court 6 |
| AAAP Foundation Scholarship Committee | Sunday, July 15 | 7:00AM | 8:00AM | Sheraton | Directors Row G |
| AAAP Foundation Development Committee | Monday, July 16 | 9:00AM | 10:00AM | Sheraton | Vail |
| Program Events | | | | | |
| AAAP Symposium | Friday, July 13 | 8:00AM | 11:30AM | Convention Ctr | Four Seasons Ballroom 1 |
| AVMA Small Flock Workshop | Friday, July 13 | 8:00AM | 5:00PM | Convention Ctr | Mile High Ballroom |
| AAAP Opening Welcome and Poster Reception | Friday, July 13 | 5:30 PM | 7:00 PM | Convention Ctr | Four Seasons Ballroom 4 |
| Mentor/Mentee Breakfast (Invitation Only) | Saturday, July 14 | 7:00 AM | 8:00AM | Sheraton | Plaza Court 4 |
| 2018 Scientific Program Keynote Address | Saturday, July 14 | 8:30 AM | 9:00AM | Convention Ctr | Four Seasons Ballroom 1 |
| New Member Orientation | Saturday, July 14 | 5:00 PM | 5:30PM | Sheraton | Plaza Court 8 |
| AAAP Poultry Professional Networking (Meet the Expert) | Saturday, July 14 | 5:30PM | 6:30PM | Sheraton | Plaza Ballroom AB |
| Yoga | Sunday, July 15 | 6:30 AM | 7:30 AM | Sheraton | Directors Row 1 |
| Wellness Talk: | Sunday, July 15 | 10:15 AM | 10:45 | Convention Ctr | Four Seasons Ballroom 1 |
| AAAP Business Meeting | Sunday, July 15 | 10:45AM | 12:00PM | Convention Ctr | Four Seasons Ballroom 1 |
| AAAP Women Lunch | Sunday, July 15 | 12:15 PM | 1:15PM | Hyatt Regency | Centennial Ballroom F |
| AAAP Lasher-Eckroade History Lecture | Monday, July 16 | 11:00AM | 11:30PM | Convention Ctr | Four Seasons Ballroom 1 |
| AAAP Awards Reception before dinner | Monday, July 16 | 5:30PM | 6:00PM | Sheraton | Majestic Foyer |
| AAAP Awards Dinner | Monday, July 16 | 6:00PM | 8:00PM | Sheraton | Majestic Ballroom |
| ACPV | | | | | |
| ACPV Exam #1 | Thursday, July 12 | 7:00AM | 5:30PM | Renaissance | Dignity/Endurance |
| ACPV Exam #2 | Thursday, July 12 | 7:00AM | 5:30PM | Renaissance | Beauty |
| ACPV Exam Grading Room | Thursday, July 12 | 7:00AM | 10:00PM | Renaissance | Fisher |
| ACPV Board of Governors Meeting | Sunday, July 15 | 7:00AM | 10:00AM | Sheraton | Governors Square 17 |
| ACPV Reception/Annual Meeting | Monday, July 16 | 7:00AM | 8:30AM | Sheraton | Majestic Ballroom |
| Invitation Only | | | | | |
| Association of Veterinarians in Turkey Production | Thursday, July 12 | 8:00AM | 5:00PM | Sheraton | Silver |
| Association of Veterinarians in Broiler Production Meeting | Friday, July 13 | 12:00PM | 5:00PM | Sheraton | Spruce |
| Association of Veterinarians in Egg Production | Friday, July 13 | 12:00PM | 5:00PM | Sheraton | Silver |
| Association of Poultry Primary Breeder Veterinarians | Saturday, July 14 | 11:30AM | 1:30PM | Sheraton | Governors Square 11 |
| Georgia MAM Alumni Meeting and Social | Sunday, July 15 | 5:30 PM | 8:30 PM | Sheraton | Governors Square 16 |

Denver Convention Ballroom Level

BALLROOM LEVEL



2017-2018

**AAAP Foundation
Board of Directors**

www.aaap.info/foundation

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AAAP Representatives to AVMA

**AVMA Animal
Agriculture Liaison**

Karen Grogan 2018
Mark Burluson 2018 (Alternate)

**AVMA Animal
Welfare Committee**

Katherine Weathers 2019
Helen Wojinski 2019 (Alternate)

**AVMA Clinical Practitioners
Advisory Committee**

Hector M. Cervantes 2020
Chad Malinak 2018 (Alternate)

**AVMA Committee for Disaster and
Emergency Issues**

Brian Wooming 2019

AVMA Committee on Antimicrobials

Charles Hofacre 2018
Randall Singer 2018 (Alternate)

**AVMA Convention Education
Program Committee**

Danny L. Magee 2018
Ivan R. Alvarado 2018 (Alternate)

**AVMA Food Safety
Advisory Committee**

Daniel Wilson 2019

AVMA House of Delegates

Gregg J. Cutler 2017
Katherine Weathers 2017 (Alternate)

**AVMA Legislative
Advisory Committee**

Suzanne Y. Dougherty 2018
Ian Rubinoff 2019 (Alternate)

AAAP Representatives to Allied Organizations

**Council for Agriculture Science and
Technology (CAST)**

Robert D. Evans 2019
Mohamed El-Gazzar 2019

**Professional Animal Auditor
Certification Organization
(PAACO)**

David A. Pyle 2018
David R. Hermes 2017

**United States Animal Health
Association (USAHA)**

Eric Gingerich 2019

**Transmissible Diseases of Poultry
and Other Avian Species**

Dale C. Laurer, Chair

Animal Agriculture Coalition (AAC)

Ian Rubinoff

AAAP Foundation Committee Chairs

www.aaap.info/aaapawards

Awards

Andrea Zedek 2019

Poultry Scholarship

Mark Bland 2018

Kenneth Eskelund Preceptorship

Francene S. Van Sambeek 2020

Development Committee

Stewart Ritchie 2019
Kristen Roza-Sutherland 2020

AAAP Constitutional Committee Chairs

www.aap.info/committees

Auditing

Karen Burns Grogan

Nominating

Patricia A. Dunn

Resolutions

Frederic J. Hoerr

AAAP Task Force Committee Chairs

Animal Welfare and Management Practices

Jose A. Linares 2018

Diseases of Public Health Significance

Jarra Jagne 2018

Drugs and Therapeutics

Sara Steinlage 2018

Education

Monique Franca 2019

Enteric Diseases

John Schleifer 2019

Epidemiology

Dave Fernandez 2020

Food Safety

Brett Hopkins 2020

History of Avian Medicine

Patricia Dunn 2019

Legislative Advisory

Suzanne Y. Dougherty 2021

Membership

Yuko Sato 2018

Program Advisory

Danny L. Magee 2018

Respiratory Diseases

Mark W. Jackwood 2018

Research Priorities

Ivan R. Alvarado 2018

Tumor Virus

Isabel M. Gimeno 2018

Toxic, Infectious, Miscellaneous and Emerging Diseases

Sunil Mor 2019

AAAP Interest Group Chairs Histopathology/Case Report Interest Group

H.L. Shivaprasad

2017-2018 AAAP

Board of Directors

www.aap.info/aaap-board-of-directors

John Smith

President 2018

Nathaniel Tablante

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Suzanne Dougherty

Executive Vice President 2021

Karel (Ton) Schat

Director - Northeast 2021

Eric L. Jensen

Director - South 2018

Bernard J. Beckman

Director - Central 2019

Rocio Crespo

Director - Western 2020

Isabel Gimeno

Director-at-Large 2018

Maritza Tamayo

Director-at-Large 2019

Hector Cervantes

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AAAP Publication Board Chairs

Avian Diseases Advisory Board

Y. M. Saif

Avian Diseases Editorial Board

Y. M. Saif

Avian Diseases Manual

Martine Boulianne

Avian Histopathology Manual Board

Tahseen Abdul-Aziz

Biosecurity Manual Board

Robert L. Owen

Diseases of Poultry Editorial Board

David E. Swayne

Isolation of Avian Pathogens Manual Board

Susan Williams

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 | Alexandra Reilley | Susan Williams |
| 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> | Turkey production and health: current challenges Hafez Mohamed Hafez, <i>Free University Berlin</i> |
| 10:15 AM | Break | |
| Topic | Reovirus | Bacteriology |
| Moderator | Travis Cigainero | Vijay Durairaj |
| 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 | Milos Markis | Mohamed El-Gazzar |
| 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 | Mycoplasma |
| Moderator | Elena Behnke | Jaime Ruiz |
| 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 | Mycoplasma |
| 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 | |

Sunday, July 15, 2018

| Room Four Seasons 1 | | Room Four Seasons 2-3 |
|---------------------|---|---|
| Topic | Case Reports | Immunology |
| Moderator | Louise Dufour-Zavala | Kristen Roza |
| 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 Diagnostics</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> |
| 3:00 PM | Break | |

| Topic | Case Reports | Wealth of Knowledge |
|-----------|---|--|
| Moderator | Algis Martinez | Enrique Montiel |
| 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 ratiies 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 | Pedro Villegas | Patricia Wakenell |
| 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 | Virology | 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 | |
| Moderator | Alejandro Banda | Becky Tilley |
| 9:45 AM | Immunological characterization of monoclonal antibodies against the recombinant gpG of infectious laryngotracheitis virus Ricardo Choque, <i>Farmacologicos 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 Croville, <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 | Vaccinology |
| Moderator | Sara Steinlage | Kalen Cookson |
| 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 | Charles Broussard | Brian Jordan |
| 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 | Kabel Robbins | Don Ritter |
| 3:15 PM | Utilizing OPG counts to monitor Coccidiosis vaccination programs Kelli Jones, <i>CEVA Animal Health</i> | Molecular characterization of IBV field isolates from Canada 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 | Parasitology | 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 | Jessica Hockaday | Lindsay Christina |
| 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 | |
| Moderator | Jose Bruzual | Catherine Logue |
| 10:00 AM | Assessment of vector vaccine and field virus differentiation methodologies Alexandra Mendoza-Reilly, <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>SEPRL-USDA-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

when fed to broiler chickens challenged with Clostridium perfringens Greg Mathis, *Southern Poultry Research Inc.*

Characterization of Avian Pathogenic E. coli (APEC) Associated with Turkey Cellulitis and Litter Quality in Iowa. Catherine Logue, *Iowa State University*

Necrotic enteritis in quetzals (Pharomachrus mocinno) Fernando Jimenez, *Univ Nac Autonoma de Mexico*

Identification and genotyping of Gallibacterium anatis isolated from clinically affected layers in Peru Morales-Erasto Vladimir, *Universidad Autónoma del Estado de México*

APEC-associated Virulence Genes in Production Turkeys in North Carolina Christina Lindsey, *National Poultry Improvement Plan*

Case Reports

A case-control field report: Ricketts in turkey poult Joan Schrader, *Poultry Veterinarian & Consultant*

Case Report – Neurological Signs in Pullets Francisco Rojo, *BOEHRINGER INGELHEIM*

Diagnosis of Liposarcoma in a Backyard Chicken with Retrospective Analysis of Neoplasms Diagnosed in California Animal Health and Food Safety Laboratory Backyard Chicken Submissions from 2008 – 2017 Julia Blakey, *California Animal Health and Food Safety Lab- UC Davis*

Fowl typhoid in Coturnix japonica in Peru Eliana Icochea, *University of San Marcos*

Case Report: Extremely High Mortality In 33-day-old Broiler Chickens Associated With A GA-13 Infectious Bronchitis Virus Infection Of The Kidneys James Davis, *Georgia Poultry Laboratory Network*

Case Report: Necrotic Enteritis In Five-day-old Broiler Chicks Caused By A Clostridium Sporogenes Infection James Davis, *Georgia Poultry Laboratory Network*

Pseudomonas Aeruginosa Systemic Infection In Young Broiler Breeders, Korea Jin-Hyun Kim

Diagnostics

Establishment Of Hy-Line Commercial Laying Hen Blood Gas And Chemistry Reference Intervals Utilizing Portable i-STAT®1 Clinical Analyzer Zachary Sauer, *Iowa State University CVM*

Increased Interleukin-6 Expression is Associated with Pre-cancerous Inflammatory Lesions in the Ovary of the Aging Laying Hen K. Denise Apperson, *Oregon State University College of Veterinary Medicine*

Comparison of the detection methods of avian influenza virus from the fecal samples during the national wild bird surveillance in Korea GANGSAN KIM, *Avian disease laboratory. Chungbuk national university*

Establishing Reference Values For Monitoring Vaccination With A Recombinant HVT By Real Time PCR: Experimental Data And Seven Year Survey Of Field Cases Aneg Lucia Cortes, *North Carolina State University CVM*

Comparison of Two Commercial ELISA Kits Adapted to Monitor Immune Response Induced by Recombinant HVT-ND Vaccine Vilmos Palya, *Scientific Support and Investigation Unit Ceva Phylaxia Ceva Animal Health*

Optimization Of Conditions To Sequence Long cDNAs From Viruses Iryna Goraichuk, *USDA/ARS/SEPRL*

Salmonella pullorum Microtiter Assay Compared to Tube Agglutination Brenda Glidewell, *Georgia Poultry Laboratory Network*

Synopsis of broiler and broiler breeder diseases diagnosed at Alabama State Diagnostic Facilities; 2016-2017 Erfan Chowdhury, *Alabama Veterinary Diagnostic Laboratory System*

Necropsy Examination of Domestic Canaries from a Single Laboratory Colony John Roberts, *Thompson Bishop Sparks State Lab*

Seroconversion Profiles for Newcastle Disease with Different Serology Tests in Broilers Vaccinated with a Vector Marek's/Newcastle Vaccine (rHVT-F) Luiz Sesti, *Ceva Animal Health*

Enteric Diseases

Stimulation Of Local Immune Response As Crucial Step In Reduction Of Campylobacteriosis In Chickens Robert Herich, *University of Veterinary Medicine and Pharmacy Kosice*

Inhibitory Activity Of A Novel Triple-strain Bacillus Probiotic (Gallipro-Fit) Towards Escherichia coli In A Feed Matrix Line Skjoet-Rasmussen, *Chr. Hansen Inc.*

Immunostimulatory Effect Of Sweet Chestnut Extract On Intestinal Microenvironment During Application Of Anthelmintic In Chickens Mikuláš Levkut, *University of Veterinary Medicine and Pharmacy Kosice*

Evaluation of Bacillus licheniformis (DSM 17236) for protection against bacterial chondronecrosis with osteomyelitis (BCO) lameness in chickens with exposure to Staphylococcus agnetis Alfred Blanch, *Chr Hansen Inc.*

Histopathology and Ultrastructural Pathology of Focal Duodenal Necrosis Monique Franca, *UGA*

Immunology

Cytokine Transcription Profiles In Turkey Poult During Turkey Coronavirus Infection Tsang Long Lin, *Purdue University CVM*

Transcription Of IFN- γ ; TLR-3 And TLR-21 In Turkey Embryos After In Ovo Vaccination With Marek's Disease Vaccines Abigail Turner, *NCSU-CVM*

Evaluation of safety and efficacy of multivalent oil based vaccines containing different adjuvant and immunostimulant materials Joo-sung Son, *Avian disease laboratory Chungbuk national university*

Immunomodulatory effects of chicken IL-10 expressed by a recombinant Newcastle disease virus Tonya Taylor, *SEPR*

Effect of the Addition of Saccharomyces cerevisiae Yeast Cell Walls to Diets with Mycotoxins on Performance and Immune Responses in Broiler Gabriela Gómez Verduzco,

Effects of Egg Age on Maternal Antibodies Bethany Coggin, *Georgia Poultry Laboratory Network*

Infectious Bronchitis Virus

Comparative Productivity Of Broiler Breeder Flocks Using IBV Homologous And Heterologous Vaccines Jorge Chacón, *Ceva Animal Health*

Role of S1 N-terminal domain amino acid differences among ArkDPI IBV vaccine subpopulations in differential binding to chicken tissues and selection in chickens Vicky van Santen, *Auburn University*

Management

Applications of PathPro® Web-Based Analytical Service for Mortality Analysis in Commercial Layers Frederic Hoerr, *Veterinary Diagnostic Pathology, LLC*

Development of biosecurity evaluation system in the duck farm associated with productivity Taesik Kim, *Avian disease laboratory. Chungbuk national university*

Demographic characteristics of small poultry flocks in Ontario Nancy Brochu,

University of Guelph Ontario Veterinary College Department of Pathobiology

Marek's Disease Virus

Decreasing the temperature of Marek disease vaccine preparation during application increases viral replication. Francisco Perozo, *Merial*

Effect Of Infectivity Rate On Marek's Disease Vaccine Titer Variability Blanca Lopez de Juan Abad, *North Carolina State University*

Mycoplasma

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

Geospatial Analysis of Mycoplasma synoviae in Georgia's Commercial Poultry Flocks Nicki Smith, *Georgia Poultry Laboratory Network*

Reflections on the Last Five Years of Mycoplasma Gallisepticum (MG) and Mycoplasma Synoviae (MS) Testing at the Georgia Poultry Laboratory Network in Georgia Commercial and Backyard Operations Len Chappell, *Georgia Poultry Laboratory Network*

Discovery of novel small molecules with antimicrobial activities against Mycoplasma gallisepticum to control avian chronic respiratory disease Yosra A. Helmy, *The Ohio State University*

Parasitology

Surveillance For Heterakis Species In Game Birds in Pennsylvania Justin Brown, *Pennsylvania Game Commission*

Blackhead Outbreak Prevention Attempt - A Success? Stephen Williams, *Select Genetics*

The Use Of A Live Non-Attenuated Coccidiosis Vaccine Modifies Eimeria Spp. Excretion In Commercial Antibiotic-Free Broiler Chicken Flocks Compared To Conventional Shuttle Anticoccidial Programs Eric Parent, *Université de Montréal Saint-Hyacinthe Canada*

Control of Poultry Red Mite: first Italian experiences with Fluralaner Corrado Longoni, *Merck Animal Health*

The Effect of Single Species Coccidia Exposure on the Current Industry Broiler Genetic Strains When Exposed at Varying Ages --Part 2 Sam Hendrix, *Colorado Quality Research*

Reovirus

Expression and characterization of sC from two avian reovirus genotypes Linda Michel, *The Ohio State University*

Emerging Avian Reovirus Genotypes In Free-Range Broilers; France Guillaume Croville, *National veterinary college of Toulouse*

Molecular Surveillance of Avian Reoviruses and Efforts Towards a Comprehensive Classification Method Sofia Egana, *University of California Davis*

Serotype Analysis of Reovirus Genotypes Holly Sellers, *The University of Georgia Athens GA USA*

Progression Changes of Reovirus Tenosynovitis Correlated with Weigh and Immune System Histology John Roberts, *Thompson Bishop Sparks State Lab*

Salmonella

How Probiotics Can Be A Tool In Salmonella Control John McCarty, *Boehringer Ingelheim*

Salmonella Exposure Risk Of Chick Boxes Kathryn Mccullough, *North Carolina State University*

Vaccinology

Assessment of the benefits provided by an IBD immune complex vaccine (BDA BLEN®) in broilers under field conditions in Ecuador. Francisco Perozo, *Merial*

Assessment of the efficacy of vector HVT-ND (NEWXXITEK® HVT+ND) + IBD immune complex vaccine (BDA BLEN®) vaccination in broilers under field conditions in Venezuela. Francisco Perozo, *Merial*

Benefits of the long-term use a single dose vector HVT-IBD vaccine in commercial layers. Francisco Perozo, *Merial*

Comparative Study Of The Safety And Efficacy Of Three Inactivated Tetravalent Vaccines In Commercial Broiler Breeders Ruben Merino, *Departamento de Medicina y Zootecnia de AVES FMVZ - UNAM*

Efficacy And Safety Of A Tetravalent Inactivated Oil Adjuvant Emulsion Vaccine Applied Intramuscularly Ruben Merino, *Departamento de Medicina y Zootecnia de AVES FMVZ - UNAM*

A vaccine of *Saccharomyces cerevisiae* expressing two adenovirus capsid-proteins against Hepatitis-Hydropericardium Syndrome Van Dam Lai, *Chungbuk National University CVM*

Successful Immunization following 18.5 ED In Ovo Application Of rHVT-F Vaccine Using Egginject® In-Ovo Injector Christophe Cazaban, *Ceva Animal Health*

Long-Term use of a Single Dose Vector HVT-IBD (VAXXITEK® HVT+IBD) Vaccine in Broiler Breeders. Francisco Perozo, *Merial*

Evaluation Of Newcastle Disease Live Attenuated Vaccine Take By In Vivo Replication And Local Immune Response Using Tear Drops Andrea Delvecchio, *Boehringer Ingelheim AH*

Protection Against California 2002 NDV Strain Afforded by Adenovirus Vectored Vaccine Expressing Fusion or Hemagglutination-Neuraminidase Genes Helena Lage Ferreira,

Challenge Study Against Conventional And Emergent Serovars Of *Avibacterium paragallinarum* In SPF Vaccinated Chickens. Fernando Lozano, *CEVA Animal Health*

Virology

Identification Of Infectious Bursal Disease Viruses In Backyard Poultry From California USA. Daral Jackwood, *The Ohio State University*

Description of clinical signs; gross and histological lesions in chickens inoculated in ovo with chicken astroviruses associated with "white chick disease". Alejandro Banda, *Mississippi State University*

Fatal hemorrhagic tracheitis by Aviadenovirus in Alagoas Curassows (Pauxi mitu) Roselene Ecco, *Universidade Federal de Minas Gerais. Brazil*

Field evaluation of vaccine take of two IBD complex immune vaccines in broiler flocks Jorge Chacón, *CEVA Animal Health*

Pathogenicity And Length Of Infection Studies Of Avian Reovirus Field Variants In Experimental Chickens Lin Lin, *Penn State University*

Detection of Chicken Proventricular Necrosis Virus (CPNV) From Frozen Tissue Homogenates Derived from Proventriculitis Experimental Studies Teresa Dormitorio, *Auburn University*

Evaluation of the efficacy of a vaccine based on Liposomes against Newcastle Disease in broiler chickens Eliana Icochea, *University of San Marcos*

Genotype 2.VI.f viruses are dominating populations of endemic pigeon type avian avulavirus (PPMV-1) in Germany despite introduction of 2 other subgroups. Christian Grund, *FLI Federal Research Institute for Animal Health*

Genomic Sequence Analysis of Gallid herpesvirus 3 Vaccine Strain 301B/1

Taejoong Kim

Wealth of Knowledge

The Big Red Biosecurity Program for Poultry Develops Drone Technology for Biosurveillance. Don Reynolds, *University of Nebraska*

Histologic Findings In Long Bones; Vertebrae Of Hatchling Commercial Chickens; Turkeys Floyd Wilson, *Mississippi State University*

Chickens In Urban Areas: What Citizens And Legislators Need To Know Before Saying "Yes" or "No" Nathaniel Tablante, *University of Maryland College Park*

Backyard Poultry as a Reservoir for Respiratory Diseases and the Seroprevalence of *Salmonella* sp. in Backyard Poultry Flocks Theodore Derksen, *Western University of Health Sciences*

Sentinel Birds: An old strategy that can enhance current diagnostic tools Luis Gomez, *Boehringer-Ingelheim*

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.*

AAAP/AVMA Future Annual Convention dates and locations

Future Convention Cities

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.