

▶ AAAP Symposium
"Maintaining Intestinal Health
with Non-Antibiotic Compounds"

● July 9 - 11, 2024

aaap
AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS

Symposium & Scientific Program

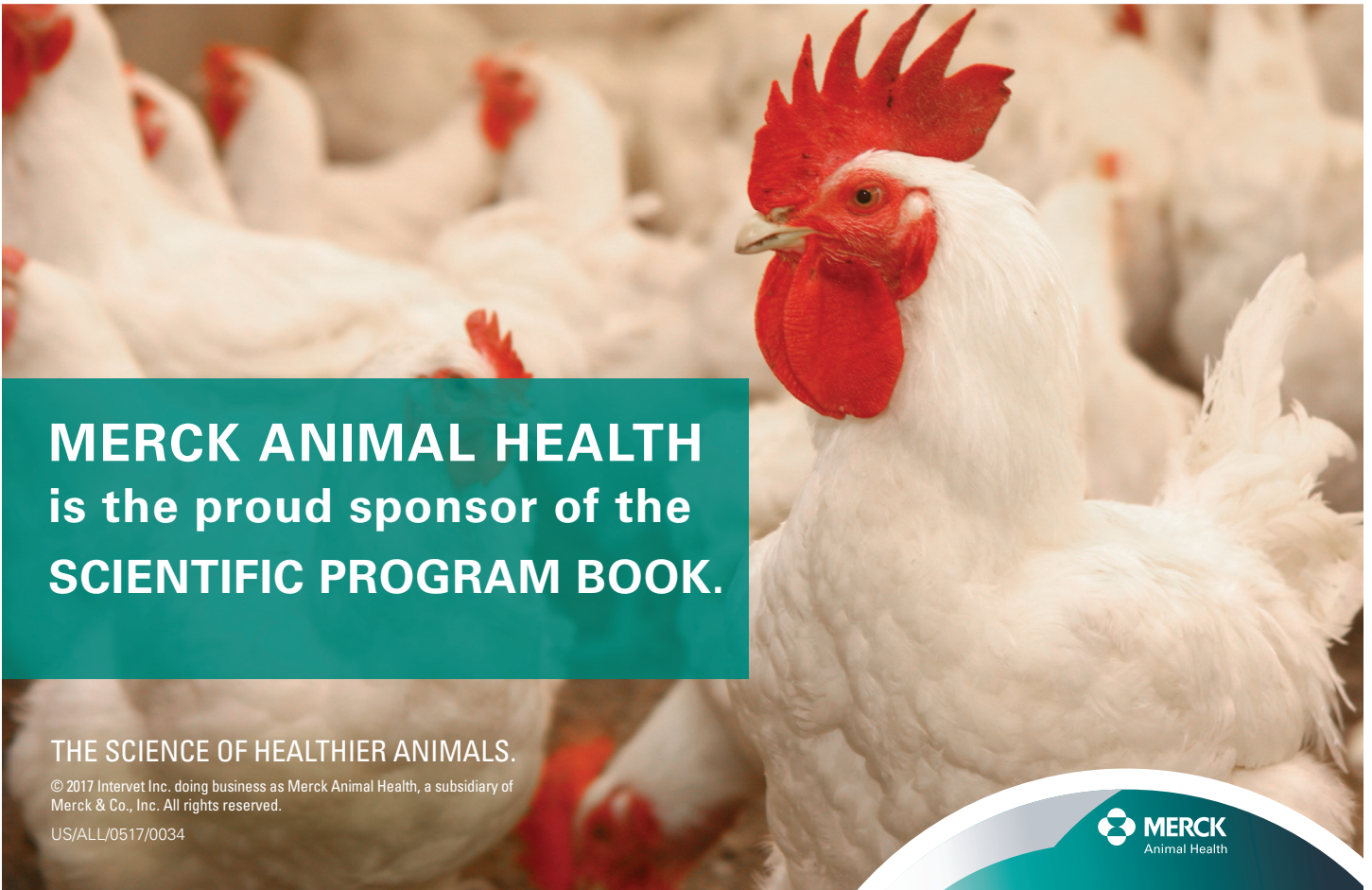


American Association of Avian Pathologists (AAAP)

AAAP will be the premier organization that advances science-based knowledge, expertise, and education on poultry health, welfare, and food safety to provide member value and stakeholder trust.

**Sixty-Seventh Annual Meeting
American Association of Avian Pathologists
St. Louis Union Station Hotel
July 9-11, 2024, St. Louis, MO**

**Thank You
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Welcome to the AAAP 2024 Annual Meeting Scientific Program



Natalie Armour Manginsay,
BVSc, MAM, PhD, dACPV
Chair, AAAP Program
Advisory Committee Chair

The Program Advisory Committee is excited to present our first ever hybrid scientific program at this year's AAAP Annual Meeting. The scientific program is comprised of a combination of in-person oral, in-person poster, and prerecorded oral presentations that highlight the latest poultry health and management research and field experiences from a diversity of presenters and experts. Presentations are arranged in sixteen sessions, incorporating topics on viral, bacterial and parasitic diseases, enteric health, diagnostics, epidemiology, vaccinology, case reports, and others.

Our Keynote Speaker, Dr. Marc de Beer, will kick off the scientific program on Tuesday July 9th, with his presentation entitled "Future Perspectives for the Global Poultry Industry". As President of Aviagen North America, Dr. de Beer is well positioned to address a "bird's-eye view" of focus areas for future growth of the poultry industry and emerging technologies that promise to transform poultry production, as well as future challenges that the industry should be prepared for.

Attendees can also look forward to other important components of the program not organized by the Program Advisory Committee, including the Symposium ("Maintaining Intestinal Health with Non-Antibiotic Compounds"), the History lecture by Dr. Holly Sellers ("The History of Avian Reovirus"), the Women's Network Luncheon presentation (Dr. Cherie Buisson), and the Wellness Talk (Jeff Winton).

I would personally like to thank the Program Committee for their tireless efforts in designing an exciting and informative program this year. Our committee reviewed and scored a total of 294 submitted abstracts, facing the added challenges of fewer in-person oral slots (due to the shorter meeting) and three possible presentation formats. Thankfully, our three-person core committee (Tak Niino, Darrell Kapczynski, and myself) was bolstered with an additional three associate members (Yuko Sato, Travis Schaal, and Joel Cline) this Spring, facilitating the work of the committee, and ensuring that each abstract was reviewed and scored by two committee members.

This will be my final year chairing the Program Advisory Committee. I have been honored to serve the AAAP in this role since 2022, and I know that the work of the committee will continue to advance under the leadership of the incoming Program Chair, Dr. Tak Niino. I want to thank the AAAP staff, leadership and membership for all your support. Welcome to St. Louis!

AAAP Leadership

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

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Bylaws Review

Michelle Kromm 2027

Committee Review

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Diseases of Public Health Significance

Claude Hebron 2024

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Education

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Maria Terra 2025

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Mostafa Ghanem 2026
Louise Dufour Zavala 2026

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Beth Krushinskie 2025

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Ton Schat 2025

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Ashley Hallowell 2024

Outreach

Yuko Sato 2025

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Stephen Williams 2025

Respiratory Diseases

Brian Jordan 2025

Small Flock

Julie Helm 2024

Therapeutics, Biologics, and Bioprotection

Randy Singer 2024

Toxic, Infectious, Miscellaneous and Emerging Diseases

Linnea Tracy 2026

Tumor Virus

Algis Martinez 2024

Small Flocks

Julie Helm 2024

Women's Network

Ellen Lapuck-Harris 2024

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Kenneth Eskelund Preceptorship

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Scholarship Committee

Kabel Robbins 2024

Development Committee

Roy Jacob 2026

Travis Schaal 2026

Avian Bioscience Travel Scholarship

Brian Ladman 2027

AAAP Representatives to Allied Organizations

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Animal Agriculture Coalition (AAC)

Jose Linares 2024

Center for Disease Control (CDC)

Bruce Stewart-Brown 2026

Council for Agriculture Science and Technology (CAST)

Mostafa Ghanem 2025

International Poultry Welfare Alliance (IPWA)

James Barton 2026

National Chicken Council (NCC)

Beth Krushinskie 2025

National Turkey Federation (NTF)

David Hermes 2024

Professional Animal Auditor Certification Organization (PAACO)

David Hermes 2025

Katherine Barger Weathers 2024

Stakeholder Forum on Antimicrobial Resistance (S-FAR)

Randy Singer 2025

United Egg Producers (UEP)

Dan Wilson 2026

United States Animal Health Association (USAHA)

Yuko Sato 2025

US Food and Drug Administration (FDA)

Randy Singer 2025

US Poultry & Egg (USP)

Denise Heard 2026

AAAP Allied Association Groups

Association of Veterinarians in Broiler Production (AVBP)

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Association of Veterinarians in Turkey Production (AVTP)

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Alternate

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Upcoming

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Andre Ziegler 2027 (Alternate)

Animal Welfare Committee

Current

Nancy Reimers 2025

Sara Reichelt 2025 (Alternate)

Clinical Practitioners Advisory Committee

Current

Megan Lighty 2026

Upcoming

Michaela Olson 2026 (Alternate)

Committee on Antimicrobials

Current

Randy Singer 2024

Hector Cervantes 2024 (Alternate)

Upcoming

Michelle Kromm 2027

Randy Singer 2027 (Alternate)

Committee on Disaster and Emergency Issues

Current

Michael Martin 2025

(Representing Poultry Medicine)

Committee on Environmental Issues

Current

Carrier Cremers 2026

(Representing Avian Medicine)

Convention Education Program Committee

Current

Natalie Manginsay 2024

(Representing Poultry Medicine)

Upcoming

Takumu Niino 2024

(Representing Poultry Medicine)

Food Safety Advisory Committee

Upcoming

Elizabeth Krushinskie 2026

Robert O'Conner 2026 (Alternate)

Legislative Advisory Committee

Current

Jose Linares 2024

Suzanne Dougherty 2024 (Alternate)

Upcoming

Suzanne Dougherty 2027

Carl J. Heeder III 2027 (Alternate)

Panel on Depopulation

Current - Non-Voting Member

Michelle Kromm 2026

(Representing Poultry Working Group)

Panel on Humane Slaughter

Current - Chair

Kenneth Opengart 2024

(Representing Poultry Working Group)

Committee members are nominated by the AAAP Board of Directors and approved by AVMA. These entities usually meet twice a year, in the spring and fall. AAAP is grateful to have its members working as volunteers in many AVMA committees and panels.

AAAP Event Schedule

All Events To Be Held In The St. Louis Union Station Hotel.

Tuesday, July 9

Scientific Program Keynote Address

Marc de Beer, Aviagen

Future Perspectives for the Global Poultry Industry

8:15 AM - 9:00 AM: Grand Ballroom DEF

Avian Bioscience Travel Scholarship Winner

Emily Cason, University of Georgia, PDRC
Reevaluating the gold standard: evaluating environmental Salmonella surveillance sampling methodologies in commercial broiler live-production

10:45 AM - 11:00 AM: Grand Ballroom DEF

Women's Network Committee Lunch

Dr. Cherie Buisson, A Happy Vet, Helping Hands Pet Hospice

If You Think You Suck, You're Probably Wrong

12:00 PM - 1:00 PM: Grand Ballroom AB

Poster Session and Reception

5:15 PM - 6:30 PM: Midway West

AAAP Poultry Professionals Networking Event

6:30 PM - 7:30 PM: Midway East

Wednesday, July 10

AAAP Symposium

8:00 AM - 12:00 PM: Grand Ballroom DEF

AAAP Student Symposium

9:00 AM - 10:30 AM: Regency Ballroom

Thursday, July 11

Rimler Memorial Paper

Roel Becerra, University of Georgia

Evaluating the efficacy of novel inactivated and live vaccine approaches for the control of Spotty Liver Disease (SLD) caused by Campylobacter hepaticus in layer hens

8:15 AM - 8:30 AM: Grand Ballroom DEF

Reed Rumsey Clinical Research

Hemlata Gautam, University of Saskatchewan
Protection of Broiler Chickens Against Necrotic Enteritis by Intrapulmonary Delivery of a Live Clostridium Perfringens Vaccine Employing Gut-Lung-Axis Concept

8:45 AM - 9:00 AM: Grand Ballroom DEF

Lasher-Eckroade History Lecture

Holly Sellers, University of Georgia

10:15 AM - 10:45 AM: Grand Ballroom DEF

AAAP Business Meeting

10:45 AM - 12:00 PM: Grand Ballroom DEF

Reed Rumsey Basic Research

Julia Blakey, USDA ARS SEPRL
Endemic Unit

Analysis of the localized immune response in the bursa of Fabricius post infectious bursal disease virus challenge

3:15 PM - 3:30 PM: Regency Ballroom

Awards Banquet

5:30 PM - 8:00 PM: Grand Ballroom AB

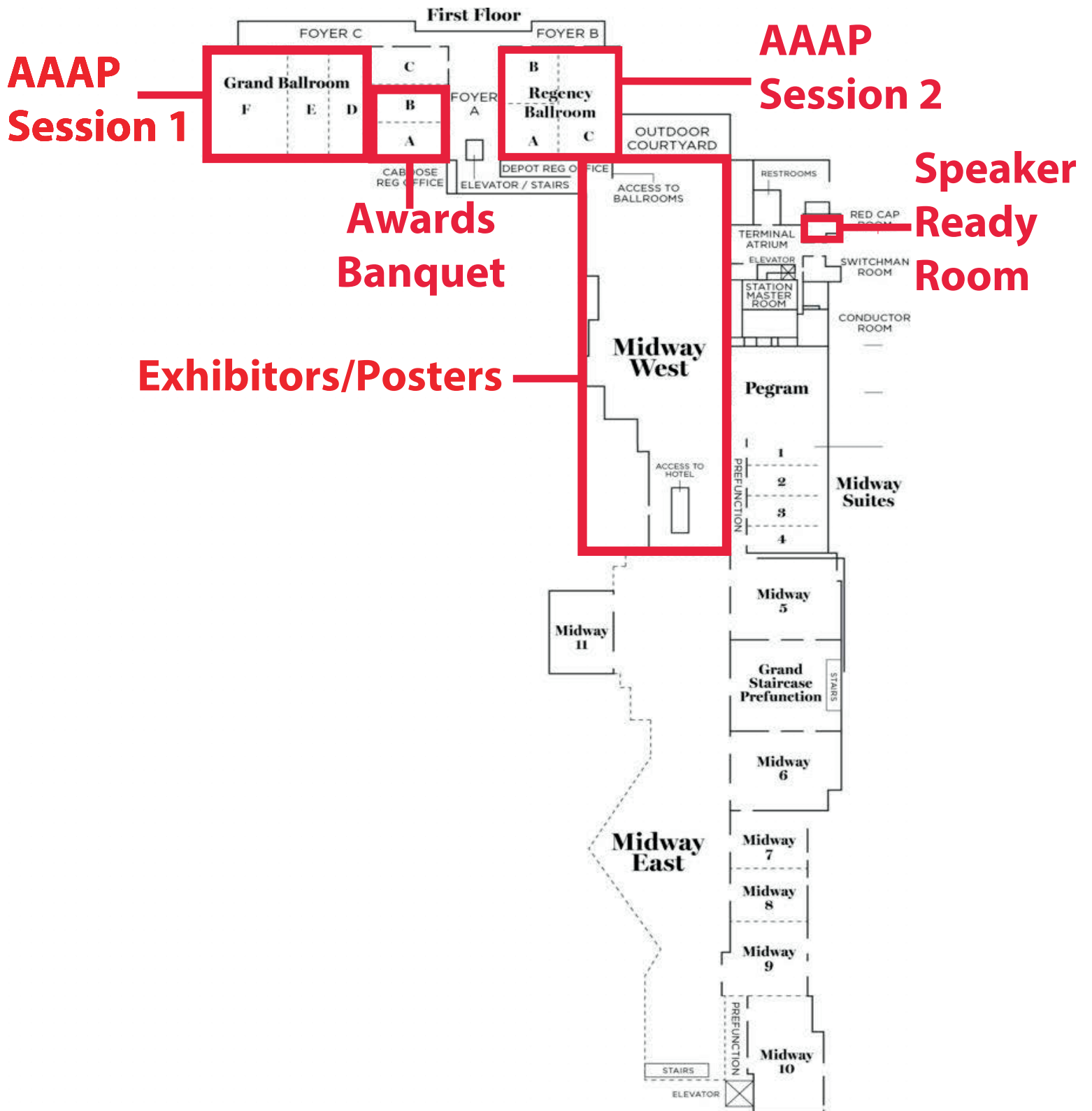
AAAP 2024 Annual Meeting and Committee Schedule

Name of Group	Meeting Date	Beg. Time	End Time	Room
AAAP Board of Directors Meetings				
AAAP Inc. and Foundation Board of Directors	Monday, July 8	8:00 AM	5:00 PM	Midway Suites 5
AAAP Past Presidents Luncheon	Thursday, July 11	12:00 PM	1:15 PM	Midway Suites 4
Committee Meetings				
AAAP Foundation ABTS Committee	Wednesday, July 10	3:15 PM	4:15 PM	Midway Suites 3
LAC Committee (combined with Outreach Committee)	Wednesday, July 10	3:15 PM	4:15 PM	Grand Ballroom C
Membership Committee	Wednesday, July 10	3:15 PM	4:15 PM	Midway Suites 4
Therapeutics, Biologics and Bioprotection Committee	Wednesday, July 10	3:15 PM	4:15 PM	Midway Suites 11
Preceptorship Committee	Wednesday, July 10	3:15 PM	4:15 PM	Grand Ballroom C
Animal Welfare Committee	Wednesday, July 10	4:15 PM	5:15 PM	Grand Ballroom C
Education Committee	Wednesday, July 10	4:15 PM	5:15 PM	Grand Ballroom A
Awards Committee	Wednesday, July 10	4:15 PM	5:15 PM	Midway Suites 4
Outreach Committee (combined with LAC Committee)	Wednesday, July 10	3:15 PM	4:15 PM	Grand Ballroom C
Toxic, Infectious, Miscellaneous & Emerging Diseases Committee	Wednesday, July 10	4:15 PM	5:15 PM	Midway Suites 11
AAAP Auditing Committee	Wednesday, July 10	4:15 PM	5:15 PM	Midway Suites 6
Research Priorities Committee	Wednesday, July 10	5:15 PM	6:15 PM	Midway Suites 3
Enteric Diseases Committee	Wednesday, July 10	5:15 PM	6:15 PM	Midway Suites 11
Epidemiology Committee	Wednesday, July 10	5:15 PM	6:15 PM	Midway Suites 6
Program Events				
AAAP Speaker Ready Room	Monday, July 8	12:00 PM	5:00 PM	Red Caps Room
AAAP Poster Room	Monday, July 8	7:00 AM	5:00 PM	Midway West
AAAP Session Room 1	Monday, July 8	7:00 AM	5:00 PM	Grand Ballroom DEF
AAAP Session Room 2	Monday, July 8	7:00 AM	5:00 PM	Regency Ballroom
Nursing Room	Monday, July 8	7:00 AM	5:00 PM	Midway Suites 1
Food Safety Listening Session with USDA-ARS	Monday, July 8	1:30 PM	3:30 PM	Midway Suites 10
Mentor/Mentee Breakfast (Invitation Only)	Tuesday, July 9	7:00 AM	8:00 AM	Midway Suites 11
AAAP Women's Network Committee Meeting (Open to All)	Tuesday, July 9	12:00 PM	1:15 PM	Grand Ballroom AB
AAAP Committee Chair/BOD Meeting	Wednesday, July 10	12:00 PM	1:15 PM	Midway Suites 5
AAAP Symposium	Wednesday, July 10	8:00 AM	12:00 PM	Grand Ballroom DEF
AAAP Student Symposium	Wednesday, July 10	9:00 AM	11:00 AM	Regency Ballroom
AAAP Opening Session	Tuesday, July 9	8:00 AM	8:15 AM	Grand Ballroom DEF
AAAP Scientific Program Keynote Address	Tuesday, July 9	8:15 AM	9:00 AM	Grand Ballroom DEF
AAAP Welcome Reception and Poster Session	Tuesday, July 9	5:15 PM	6:30 PM	Midway West
AAAP Poultry Professionals Networking Event	Tuesday, July 9	6:30 PM	7:30 PM	Midway East
AAAP Lasher-Eckroade History Lecture	Thursday, July 11	10:15 AM	10:45 AM	Grand Ballroom DEF
AAAP Business Meeting	Thursday, July 11	10:45 AM	12:00 PM	Grand Ballroom DEF
AAAP Awards Reception before Dinner	Thursday, July 11	5:30 PM	6:00 PM	Foyer C
AAAP Awards Banquet	Thursday, July 11	6:00 PM	8:00 PM	Grand Ballroom AB
ACPV				
ACPV Board of Governors Meeting	Wednesday, July 10	7:00 AM	10:00 AM	Midway Suites 2
ACPV Annual Meeting/Breakfast	Thursday, July 11	7:00 AM	8:30 AM	Grand Ballroom AB
Invitation Only				
Association of Veterinarians in Broiler Production Meeting	Monday, July 8	8:00 AM	3:00 PM	Grand Ballroom A
Association of Veterinarians in Turkey Production	Monday, July 8	8:00 AM	5:00 PM	Grand Ballroom BC
Association of Veterinarians in Egg Production	Monday, July 8	8:00 AM	4:40 PM	New York/Illinois Central
Association of Poultry Primary Breeder Veterinarians	Wednesday, July 10	11:30 AM	1:00 PM	Midway Suites 11
Alumni Associations				
NC Veterinarians and NCSU Students and Alumni	Wednesday, July 10	7:00 AM	8:00 AM	Midway Suites 11
MAM and MAHM Alumni Coffee Hour	Wednesday, July 10	7:00 AM	8:00 AM	Midway Suites 7 & 8
MAM and MAHM Alumni Happy Hour (with Zoetis)	Wednesday, July 10	5:00 PM	7:00 PM	Gothic Corridor

2024 Virtual AAAP Committee Meeting Schedule

Name of Group	Meeting Date	Beg. Time	End Time
Committee Meetings			
Avian Diseases Reviewers & Editorial Board	Monday, July 1	2:00 PM	3:00 PM
Histopathology/Case Report Interest Group	Tuesday, July 2	1:00 PM	4:00 PM
History Committee	Wednesday, June 12	4:00 PM	5:00 PM
AAAP Foundation Scholarship Committee	Tuesday, June 25	2:00 PM	3:00 PM
Respiratory Diseases Committee	Monday, June 17	1:00 PM	2:00 PM
Diversity & Inclusion Committee	Friday, June 28	1:00 PM	2:00 PM
Diseases of Public Health Significance	Wednesday, May 29	2:00 PM	3:00 PM
Food Safety Committee	Tuesday, June 18	11:00 AM	1:00 PM
Tumor Virus Committee	Friday, June 21	9:00 AM	10:00 AM
AAAP Foundation Development Committee	Friday, June 28	11:00 AM	12:00 PM

St. Louis Union Station Hotel Meeting Rooms



Tuesday, July 9, 2024

Room	Grand Ballroom DEF	
8:00 AM	Opening Session	
8:15 AM	Keynote Speaker Future Perspectives for the Global Poultry Industry Dr. Marc de Beer, <i>Aviagen</i>	
9:00 AM	Break	
Room	Grand Ballroom DEF	Regency Ballroom
Topic	Epidemiology	Case Reports
Moderator	Kabel Robbins	Kayla Niel
9:15 AM	Understanding risk factors associated with broiler breeder MS cases in Georgia Kathleen Sary, <i>Georgia Poultry Laboratory Network (GPLN)</i>	I SPY HPAI - Gross lesions highly suggestive of HPAI Yuko Sato, <i>Iowa State University</i>
9:30 AM	Comparison and evaluation of poultry biosecurity plans through the Rapid Access Biosecurity app Jason Galvis, <i>College of Veterinary Medicine, North Carolina State University</i>	Layers Don't get Bacterial Chondronecrosis and Osteomyelitis, Right? Geoffrey Lossie, <i>Purdue University/Indiana Animal Disease Diagnostic Lab</i>
9:45 AM	Mastering Sample Size Determination: Facts, Fallacies, and Best Practices for Use in Veterinary Research and Diagnostics Enrique Mondaca, <i>CEVA Animal Health</i>	High Pitched Layers - Case Report Gigi Lin, <i>BC Ministry of Agriculture and Food</i>
10:00 AM	Securely moving duck hatching eggs from a farm out of or within a Highly Pathogenic Avian Influenza (HPAI) Control Area Sylvia Wanzala-Martin, <i>University of Minnesota</i>	It's Hard To Be Positive When You're B Positive Molly Parker, <i>Select Genetics</i>
10:15 AM	An approach for prioritizing Salmonella serotypes for foodborne outbreak prevention: Using burden and trajectory of outbreak-related illnesses associated with meat and poultry Katherine Marshall, <i>CDC</i>	Torticollis in Turkey Poults Laura Tensa, <i>Cargill</i>
Topic	Salmonella	Case Reports
10:30 AM	Longitudinal evaluation of Salmonella in broiler breeder flocks Nikki Shariat, <i>Poultry Diagnostic and Research Center, University of Georgia</i>	Aspergillus flavus and Penicillium spp Infection in a Five Week Old Broiler Breeder Pullet Flock Hollyn Maloney, <i>Prairie Livestock Veterinarians</i>
10:45 AM	Avian Bioscience Travel Scholarship Re-evaluating the gold standard: evaluating environmental Salmonella surveillance sampling methodologies in commercial broiler live-production Emily Cason, <i>University of Georgia, Poultry Diagnostic and Research Center</i>	Where my eggs at doc? Reginald Onyema, <i>Aviagen North America</i>

Tuesday, July 9, 2024

11:00 AM	SE challenge studies in live ST vaccinated broilers—comparing different vaccination strategies to protection against SE challenge at different ages Kalen Cookson, <i>Zoetis</i>	Economic Impact, and Molecular characterization of CAstVs obtained from outbreaks of White Chicken Syndrome (WCS) in Western Canada Victor Palomino-Tapia, <i>Maple Leaf Foods</i>
11:15 AM	The use of a nutritional approach to support the control of Salmonella in poultry. Raquel Burin, <i>Zinpro Corporation</i>	Field Experiences with Avian Metapneumovirus in U.S. Broilers and Broiler Breeders Andy Bishop, <i>Amick</i>
Room Grand Ballroom DEF		
11:30 AM	Wellness Talk Jeff Winton	
12:00 PM	Lunch Break	
Topic	Bacteriology	Case Reports
Moderator	Algis Martinez	Rodrigo Gallardo
1:15 PM	Peeling Back the Many Layers of Competitive Exclusion Margie Lee, <i>Virginia Tech</i>	Enterococcus fecalis Infection In Laying Hens Mike Petrik, <i>McKinley Hatchery</i>
1:30 PM	Differentiation of nonpathogenic from pathogenic Enterococcus cecorum isolates, identifying unique genetic characteristics providing virulence, survival, and adaptation traits Martha Pulido Landinez, <i>Mississippi State University</i>	A Deadly Case of Stud Tom Torticollis Jake Carlson, <i>Select Genetics</i>
1:45 PM	Genotypic characterization of Enterococcus cecorum isolated from field cases Marcela Arango, <i>Mississippi State University</i>	Swollen Heads with an acute elevated mortality in Commercial Turkeys. Claude Hebron, <i>Prestage Farms</i>
Topic	Bacteriology	Virology
2:00 PM	Clostridium colinum in quail: Battling to reduce the need for antibiotics use Roxana Sanchez-Ingunza, <i>RSI Poultry Veterinary Consulting LLC</i>	Preliminary characterization of avian metapneumovirus subtype B in the U.S. Darrell Kapczynski, <i>USDA-ARS</i>
2:15 PM	Exploring Focal Duodenal Necrosis: Two Challenge Experiments Investigating Disease Replication in Layers Yuyang Tsai, <i>University of Georgia</i>	Detection and molecular characterization of avian metapneumovirus subtype B in the US turkey and chicken farms Sumit Jangra, <i>South Dakota State University</i>
2:30 PM	Assessment of water-based interventions for the control of Campylobacter hepaticus in laying hens. Catherine Logue, <i>University of Georgia</i>	An Epidemiological look at Infectious Bursal Disease (IBD) in Commercial Broiler Industry in Canada; Geographical Difference and Applied Vaccination programs Babak Sanei, <i>Zoetis Canada</i>
2:45 PM	Impact of Avibacterium paragallinarum infection on the Upper Respiratory Tract Microbiome of Chickens Mostafa Ghanem, <i>University of Maryland</i>	Molecular survey of infectious bursal disease virus in Western Europe in 2020-2023 reveals lasting predominance of A3B1 reassortant viruses Matteo Legnardi, <i>Department of Animal Medicine, Production and Health (MAPS), University of Padova</i>
3:00 PM	Break	

Tuesday, July 9, 2024

Moderator	Jaime Ruiz	Milos Markis
3:15 PM	The plasmid-encoded serine protease autotransporters Tsh and Sha contribute to avian pathogenic Escherichia coli colonization of the lungs in turkey Charles M. Dozois, <i>INRS-Centre Armand-Frappier</i>	Decoding the Sequence, Structure, and Antigenicity of Infectious Bursal Disease Virus (IBDV) Isolates in the Delmarva Region Using Whole Genome Sequencing (WGS) and Reverse Genetic Approaches Sofia Egana-Labrin, <i>Department of Animal and Avian Sciences, University of Maryland</i>
3:30 PM	Mycoplasma gallisepticum Live attenuated Vaccine Reversion to Virulence - What Changed Eniope Oluwayinka, <i>University of Georgia</i>	Infectious laryngotracheitis viruses (ILTV) Genotypes Associated with Cases of the Disease between March 2023 to April 2024. Maricarmen Garcia, <i>University of Georgia</i>
Topic	Coccidiosis	Virology
3:45 PM	Practical Guide to Successful Coccidiosis Vaccination in Broilers Sara Throne, <i>Simmons Foods</i>	Transmission of Highly Pathogenic Avian Influenza Virus H5N1 in Dairy Cattle David Suarez, <i>Agricultural Research Service</i>
4:00 PM	Practical ways to assess coccidiosis vaccination in commercial broilers. Matilde Alfonso, <i>Ceva Animal Health</i>	Binding Ability of the Hemagglutinin-Neuraminidase Protein as a Predictor of Pathogenicity of Newcastle Disease Virus Isolates Farjana Saiada, <i>Department of Pathobiology, College of Veterinary Medicine, Auburn University</i>
4:15 PM	Utilizing Oocyst Per Gram (OPG) surveillance to monitor coccidiosis management in commercial cage-free, floor-raised leghorn pullets John Schleifer, <i>Devenish Nutrition, Inc.</i>	Comparing gene expression in chicken Harderian glands and tracheas with and without maternal antibodies after vaccination with LaSota Newcastle Disease Virus Taina Lopes, <i>Universidade Federal de Minas Gerais</i>
4:30 PM	Rotating Chemical Coccidiostats Following Prolonged Use in Broilers Nicholas Brown, <i>Huvepharma, Inc</i>	Detecting Infectious Bronchitis Virus Recombinants From Field Samples: A Next Generation Sequencing Approach Robert Beckstead, <i>Ceva Animal Health, LLC</i>
4:45 PM	Evaluation of Performance and Level of Coccidiosis Immunity of Coccidia Vaccinated Broiler Chickens Fed Various Feed Additives in a Coccidiosis Pen Challenge Brandon Doss, <i>Huvepharma, Inc.</i>	Avian hepatitis E virus in the U.S. diagnostics, isolation, and characterization Rodrigo Gallardo, <i>University of California, Davis</i>
5:00 PM	Break	
Room	Midway West	
5:15 PM	Poster Session with Hors d'Oeuvres and Drinks	
Room	Midway East	
6:30 PM	Networking Event	

Wednesday, July 10, 2024

2024 AAAP Symposium Maintaining Intestinal Health with Non-Antibiotic Compounds Hosted by the Enteric Diseases Committee and the Therapeutics, Biologics and Bioprotection Committee Chairs: Maria Terra-Long (Enteric Diseases) and Randy Singer (TBB)	
Room	Grand Ballroom DEF
8:00 AM	Introduction
8:10 AM	The Gut-Brain Connection/Physiology of the intestinal tract Guillerm Tellez-Isaias, <i>University of Arkansas</i>
8:30 AM	Impact of the Intestinal Ecosystem of Poultry on Production and Sustainability Michael Kogut, <i>USDA</i>
8:50 AM	Break
9:00 AM	Use of Prebiotics and Postbiotics to Modulate Enteric Microbiome and Gut Health in Poultry Peter Ferket, <i>North Carolina State University</i>
9:15 AM	Probiotics Tim Johnson, <i>University of Minnesota</i>
9:30 AM	Mechanisms of Action of Botanicals for Enhancing Gut Health and Performance in Poultry Diego Martinez, <i>University of Arkansas</i>
9:45 AM	Role of Micro-Minerals and Fatty Acids in Intestinal Health Todd Applegate, <i>University of Georgia, Athens</i>
10:00 AM	Break
10:10 AM	A review of methods that are used in research and diagnostics to assess gut health Cristiano Bortoluzzi, <i>DSM</i>
10:25 AM	Experimental Modeling and Research Result Interpretation of Intestinal Health Products in Broiler Chickens Matthew Jones, <i>Southern Poultry Research Group</i>
10:40 AM	FDA: Current and possible future regulatory framework Bill Flynn, <i>FDA-CVM</i>
11:00 AM	Break
11:10 AM	Panel on Field Experiences with Non-Antibiotic Feed Additives Sara Throne, <i>Simmons Foods</i> Dave Hermes, <i>Perdue Farms</i> Dan Wilson, <i>Wilson Vet Co.</i> Mike Blair, <i>Devenish</i>
12:00 PM	Lunch Break

Thank You to the 2024 AAAP Symposium Sponsors!

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Veterinary Diagnostic
Pathology, LLC

Bronze (\$250-\$499)

Mindwalk Consulting Group

Wednesday, July 10, 2024

	2024 AAAP Student Symposium
Room	Regency Ballroom
9:00 AM	Poultry Industry Overview: Karen Grogan
9:15 AM	AAAP Student Opportunities: Josie Gamble Nikolas Faust Kabel Robbins Yuko Sato
9:30 AM	Panel: Industry Veterinarians: Ashley Hallowell Dan Wilson Susan Williams Carrie Cremers
10:00 AM	Networking: Eliza Ripplinger
10:30 AM	Adjourn

Wednesday, July 10, 2024

Room	Grand Ballroom DEF	Regency Ballroom
Topic	Wealth of Knowledge	Enteric Health
Moderator	Maggie Thompson	Enrique Montiel
1:15 PM	ATP Meter for Evaluating Water Line Sanitation Kabel Robbins, <i>Butterball, LLC</i>	Characterization of the predicted metagenome function of "normal" microbiota in chicken intestines Ruediger Hauck, <i>Auburn University</i>
1:30 PM	Hatchery investigations: proposing a protocol to maximize insight and efficiency. Isabella Hannay, <i>Mississippi State University</i>	Transcriptome analysis of the jejunal mucosa of broiler chickens with subclinical necrotic enteritis fed diets containing varying calcium concentrations and limestone particle sizes Rana Waqar Tabish, <i>Auburn University</i>
1:45 PM	A 12-Year Retrospective on Hatchery Applied Vaccines in the Layer Industry Ian Rubinoff, <i>Hy-Line North America</i>	Identifying chicken Lactobacillus strains possessing immunomodulatory and anti-Clostridium perfringens properties Ravi Kulkarni, <i>NC state University</i>
2:00 PM	Development and Implementation of a Framework and Assessment Tool to Evaluate an Organization's Antimicrobial Stewardship Policies and Practices Ken Opengart, <i>3 Birds Consulting</i>	Influence of coccidiosis and enteritis challenges on diet productive energy and economics in broilers Diego Martinez, <i>University of Arkansas</i>
2:15 PM	Overview of the AVMA Guidelines for the Depopulation of Animals and the revision process Cia Johnson, <i>AVMA</i>	Effect of a blend of organic acids (short-chain fatty acids) and oregano oil on gut morphology growth performance and lymphoid organs of broiler chicken Frank Ayala-Limaylla, <i>Laboratorios Drogavet SAC</i>
2:30 PM	CRISPR: An easy button for disease mitigation? Michelle Kromm, <i>Food Forward LLC</i>	Effect of Campylobacter jejuni and Campylobacter coli co-colonization on the cecal environment in turkeys Silke Rautenschlein, <i>Clinic for Poultry, University of Veterinary Medicine Hannover</i>
2:45 PM	Feed Withdrawal: Review and Lessons Learned Over a Lifetime Timothy Cummings, <i>Zoetis</i>	Blackhead – Disease review: Past and Current Prevention and Control Strategies Jaime Ruiz, <i>Elanco Animal Health</i>
3:00 PM	Break	
3:15 PM	Committee Meetings (See Page 7)	
6:15 PM	Adjourn	

Thursday, July 11, 2024

Room	Grand Ballroom DEF	Regency Ballroom
Topic	Vaccinology	Parasitology
Moderator	Robert Beckstead	Ruediger Hauck
8:00 AM	Control of Fowl Cholera in Commercial Layer type birds with Siderophore Receptor and Porin Protein Vaccine Charles Hofacre, <i>Southern Poultry Research Group, Inc.</i>	Effect of Fenbendazole on Broiler Breeder Sperm Mobility. Ivan Alvarado, <i>Merck Animal Health</i>
8:15 AM	Rimler Memorial Paper: Evaluating the efficacy of novel inactivated and live vaccine approaches for the control of Spotty Liver Disease (SLD) caused by Campylobacter hepaticus in layer hens Roel Becerra, <i>University of Georgia</i>	Anthelmintic Support with Natural Products Philip Stayer, <i>Dr Phil Stayer Poultry Consulting, LLC</i>
8:30 AM	The Impacts of a Spotty Liver Disease (Campylobacter hepaticus) Autogenous Vaccine on Pasture Raised Production Systems Mark Mouw, <i>Wilson Veterinary Co.</i>	Effects of stress factors on histomoniasis in broiler breeder pullets Catherine Fudge, <i>University of Georgia</i>
8:45 AM	Reed Rumsey Clinical Research Award Winner: Protection of Broiler Chickens Against Necrotic Enteritis by Intrapulmonary Delivery of a Live Clostridium Perfringens Vaccine Employing Gut-Lung-Axis Concept Hemlata Gautam, <i>University of Saskatchewan</i>	Economic Impact of Bed Bug Infestation in Breeder Operations Aaliyah Gore, <i>North Carolina State University</i>
9:00 AM	Field evaluation of the efficacy of live E. coli and live Salmonella Typhimurium vaccination by parenteral administration in commercial layers Fernando Ruiz-Jimenez, <i>Zoetis</i>	Performance of Broiler Chickens Vaccinated with an In Ovo Coccidiosis Vaccine Compared to Broiler Chickens Treated with Anticoccidial Drugs in-Feed Joan Molist, <i>Laboratorios HIPRA S.A.</i>
Topic	Vaccinology	Antimicrobials & Antimicrobial Resistance
9:15 AM	Optimising in ovo Herpesvirus of turkey (HVT) - vectored vaccines: Defining the role of the HVT vNr-13 protein in vitro in chicken embryo fibroblasts and in ovo in late stage embryonic tissues Vishwanatha Reddy Avalakuppa Papi Reddy, <i>The Pirbright Institute</i>	Remediating the Poultry Litter Resistome John Maurer, <i>Virginia Tech</i>
9:30 AM	Efficacy of a reverse-genetics derived vaccine against highly pathogenic avian influenza viruses from clade 2.3.4.4 Leticia Frizzo da Silva, <i>Zoetis Veterinary Medicine Research and Development</i>	Phenotypic characterization of Castellaniella spp. associated with mortality events in commercial broiler breeders Tiffani Allen, <i>Poultry Diagnostic and Research Center, University of Georgia</i>
9:45 AM	Vaccination of Pullets with an Inactivated Chicken Astrovirus Isolated from a Clinical Case of White Chick Syndrome Jason Sousa, <i>University of Georgia - PDRC</i>	Efficacy of a Silane Quaternary Ammonia Compound (SiQAC) applied to feed trailers for inactivating low pathogenic avian influenza 15 days post-application JeJuan Bryant, <i>NCSU-CVM Veterinary Student</i>
10:00 AM	Break	

Thursday, July 11, 2024

Room	Grand Ballroom DEF	
10:15 AM	<p align="center">History Lecture The History of Avian Reovirus Holly Sellers, <i>University of Georgia</i></p>	
10:45 AM	<p align="center">Business Meeting</p>	
12:00 PM	<p align="center">Lunch Break</p>	
Room	Grand Ballroom DEF	Regency Ballroom
Topic	Reovirus	Diagnostics
Moderator	Ben Wileman	Silke Rautenschlein
1:15 PM	<p>Evaluation of Pathogenicity and Antigenicity of Turkey Reovirus Isolates Milos Markis, <i>AviServe LLC</i></p>	<p>A molecular beacon with RT-LAMP can detect AOAV-1 and differentiate low virulence from virulent virus strains Megan Mears, <i>Exotic and Emerging Avian Viral Diseases Research Unit, USDA</i></p>
1:30 PM	<p>Forgotten turkey avian reovirus isolates decipher naturally occurring co-infections of CRV and TRV in commercial turkeys. Sonsiray Alvarez Narvaez, <i>Southeast Poultry Research Laboratories</i></p>	<p>Improved Efficiency by multiplexing Infectious Bronchitis Virus (IBV) Singleplex Assays Ramhari Thapa, <i>Ceva Animal Health</i></p>
1:45 PM	<p>Development of turkey reovirus specific ELISA Khaled Abosria, <i>Department of Veterinary and Biomedical sciences, South Dakota State University</i></p>	<p>Development and Validation of New Differential qPCR Assays for Improved Diagnosis of Avibacterium paragallinarum in the Field Mostafa Shelkamy, <i>Iowa State University</i></p>
Topic	Avian Influenza	Diagnostics
2:00 PM	<p>Investigating the Prevalence of Highly Pathogenic Avian Influenza (HPAI) Virus Among Migratory Wild Shorebirds in Iowa Valerie Kim, <i>Iowa state University</i></p>	<p>Development of an Enzyme-Linked Immunosorbent Assay (ELISA) for detection and differentiation of Avibacterium paragallinarum infections Mariela Srednik, <i>Iowa State Univesity</i></p>
2:15 PM	<p>Viral Shedding and Environmental Dispersion of Clade 2.3.4.4B H5 High Pathogenicity Avian Influenza Virus in Ducks: Implications for Environmental Sampling in HPAI Surveillance Jean-Luc Guerin, <i>University of Toulouse</i></p>	<p>Development and Validation of New TaqMan Real-Time PCR assays for enhancing diagnosis of Spotty Liver Disease Eman Gadu, <i>Iowa State University</i></p>
2:30 PM	<p>Enhanced process to select avian influenza vaccines for protection against diverging field viruses David Swayne, <i>Birdflu Veterinarian, Watkinville, Georgia, USA</i></p>	<p>Field outbreak Investigation of Spotty Liver with Artificial Intelligence (AI) assisted Histology Chaitanya Gottapu, <i>University of Florida</i></p>
2:45 PM	<p>The effect of inactivated vaccines on highly pathogenic avian influenza virus shedding Erica Spackman, <i>US National Poultry Research Center, USDA-ARS</i></p>	<p>Development of a Deep-Learning Artificial Intelligence Diagnostic Support Tool for Chicken Renal Histopathology Adrea Mueller Slay, <i>Charles River Laboratories; University of Georgia</i></p>
3:00 PM	<p align="center">Break</p>	

Thursday, July 11, 2024

Topic	Avian Influenza	Pathology
Moderator	Katie Schlist	Holly Sellers
3:15 PM	Cross-Protection Study of Inactivated H5N1 2.3.2.1c Vaccine against Novel H5N1 2.3.4.4b Virus Circulating in Indonesia Elly Setiawaty, <i>PT Medion Farma Jaya</i>	Reed Rumsey Basic Research Award Winner: Analysis of the localized immune response in the bursa of Fabricius post infectious bursal disease virus challenge Julia Blakey, <i>USDA ARS SEPRL Endemic Unit</i>
3:30 PM	Application of enzyme linked lectin assay (ELLA) for differentiation of infected from vaccinated animals (DIVA) in poultry for avian influenza Sherif Ibrahim, <i>South-East Poultry Research Laboratory (SEPRL), ARS-USDA</i>	Lesions Associated with Avian Metapneumovirus Subtype B Infection in Commercial Turkeys and Broiler Breeder Chickens Dallas Clontz, <i>Veterinary Diagnostic Pathology, LLC</i>
3:45 PM	An update on the assessment of the risk of moving washed and sanitized eggs off a highly pathogenic avian influenza (HPAI) positive premises Mickey Leonard, <i>University of Minnesota</i>	Postmortem diagnostic profile of laying hens with hypocalcemia Mayra Tsoi, <i>Michigan State University</i>
Topic	Avian Influenza	Immunology
4:00 PM	Walks like MSD, talks like MSD, think...? Kayla Niel, <i>Penn State University Animal Diagnostic Laboratory</i>	Immune Responses in the Harderian Gland after Newcastle Disease Vaccination in Chickens with Maternal Antibodies Raimundo Espejo, <i>Department of Pathobiology, Auburn University College of Veterinary Medicine</i>
4:15 PM	Trials to evaluate safety and immunogenicity of HPAI vaccines for California condors David Suarez, <i>Agricultural Research Service</i>	Field vaccination of turkey breeder candidates part II: Challenge trial of day old poults from various vaccine strategies Ben Wileman, <i>Select Genetics</i>
4:30 PM	Improvement of Oxford Nanopore Influenza A Whole Genome Sequencing Protocol Iryna Goraichuk, <i>USDA-ARS-USNPRC</i>	Evaluation of Diagnostic Tools for Detection of Egg Drop Syndrome Cole Taylor, <i>University of Georgia</i>
4:45 PM	Development of optimized CRISPR/Cas13 transgenes for the control of avian influenza virus in chicken cells Karel Schat, <i>Cornell University</i>	Glycerides of lauric acid supplementation in the chicken diet enhances the humoral and cellular immune response to infectious bronchitis virus Wanderley Quintero-Filho, <i>Adisseo LATAM</i>
5:00 PM	Adjourn	

AAAP Online Program

Available July 1 – July 25 to all registrants. CE granted for viewing up to 10 hours. To access go to <https://aaap.mclms.net/en/>

Avian Influenza

911 Poultry Call: we have a HPAI positive

Eric Orozco, *Butterball, LLC*

How the Ducks Stole Thanksgiving: A Natural HPAI Infection in Raised for Release Mallard Ducks

Emily Pittman, *Georgia Poultry Laboratory Network*

Bacteriology

Circulation of non-pathogenic *Avibacterium paragallinarum* in the USA confounds the current diagnostics

Mohamed El Gazzar, *Iowa State University*

The Use of a Bacterial Litter Amendment to Delay Gangrenous Dermatitis and Reduce Barn Ammonia Levels

Meagan Abraham, *Jennie-O Turkey Store*

Nanopore MinION sequencing of emerging *Castellaniella* spp. associated with mortality in broiler breeders

Yi Chen Luo, *Department of Infectious Disease, College of Veterinary Medicine, The University of Georgia*

Case Report

An Unusual Case of Diphtheritic Pox in a Small Commercial Layer Flock

Jarra Jagne, *Cornell University*

Know your neighbors - *Mycoplasma gallisepticum* and *Mycoplasma synoviae* dual infection in broiler breeders

Karen Grogan, *UGA PDRC*

Atypical Presentation of *Streptococcus* Infection in Commercial Turkey Poult

Elise Gerken, *Butterball, LLC*

Neurologic Signs in Broilers Associated with Myopathy Lesions

Sabrina Hurst-Proctor, *Gaydos Technical Services*

Increased Incidence of Ricketts in Broilers and Thin Eggshells in Broiler Breeders

Thomas Gaydos, *Gaydos Technical Services*

Case Report: R emerella anatipestifer Outbreak in Breeder Ducklings

Alexander Strauch, *Four Star Veterinary Service*

Ask and You Shall Receive. Part 1: A Case Report on Vent Gleet Clinical Manifestations in Commercial Egg Layers as a Result of Chronic Excess Calcium Supplementation

Daniel Wilson, *Wilson Vet Co.*

Cloacitis in a commercial layer facility attributed to metabolic alkalosis: identification and resolution

Montana Oubre, *dsm-firmenich*

Diagnostics

Use of Next Generation Sequencing for the diagnosis of poultry tumor viral diseases

Isabel Gimeno, *North Carolina State University*

Cytopathologic diagnosis of inclusion body hepatitis in chickens via Romanowsky staining of liver impression smears

Kathryn McCullough, *Department of Pathology, College of Veterinary Medicine, University of Georgia*

Non-invasive sampling for early detection and surveillance of avian reovirus infection in turkey flocks

Mohamed Selim, *South Dakota state university*

Use of feather pulp in the diagnosis of Marek's disease: viral replication and immunopathological characterization

Federico Bonorino, *Universidad de León*

Parasitology/Coccidiosis

The Effect of High Dose Level of Amprolium Following Prolonged Use of Low Dose Level

Leslie Johnson, *Huvepharma, Inc.*

Intestinal Integrity Overview in Latin America from 2021 to 2023

Bauer Alvarenga, *Elanco Animal Health*

A Live Look at the HTSi Database and I2 Index

Francene Van Sambeek, *Elanco Animal Health*

Sources of Viable Eimeria Oocysts to Young Chicks in Commercial Broiler Houses

Mark Jenkins, *Agricultural Research Service, USDA*

Histomoniasis and Coccidiosis Reduction with Herbal Extract Blend

Greg Mathis, *Southern Poultry Research, Inc.*

Field Trial Utilizing Fecal Egg Count Reduction Test to Assess Anthelmintic Resistance in a Commercial Tom Turkey Flock

Trent Eckle, *Farbest Farms Inc.*

Polyphenol and Saponin Combination in Coccidia Control

Katie Stumvoll, *SilvaTeam US*

Vaccinology

Serological Monitoring of a trivalent vector HVT-IBD-ILT vaccine in Layer Pullets under Field Conditions in Canada

Kevin Amini, *Boehringer Ingelheim Animal Health Canada Inc.*

A Novel Application Procedure for Applying Vaccines Via Gel Droplets on the Farm at Day of Age in Commercial Poultry

Kelli Jones, *Ceva Animal Health*

Development and characterization of HVT vector vaccines to control ND and IBD

Blanca Lupiani, *Department of Veterinary Pathobiology, Texas A&M University*

Field safety of in ovo and subcutaneous administration of HVT-ILT-IBD vaccine in commercial Broilers

Faris Jirjis, *Merck Animal Health*

Replication and early immune responses induced by various MD vaccines when administered in ovo in meat type chickens

Abdelhamid Fares, *North Carolina State University, College of Veterinary Medicine*

Evaluation of MDV-1 Vaccines in the Control of vv+MDV-induced Immunosuppression

Nagwa Khaled, *NCSU*

Assessment of Protection and Changes in the Splenic Immune Cellular Phenotypes in Meat-Type Chickens Vaccinated with HVT and Challenged with a vv+MDV Strain

Nagwa Khaled, *NCSU*

Wealth of Knowledge

“Staph” Problems Again: Synovitis and Broiler Breeder Livability

Maggie Thompson, *AMT Poultry Health Consulting, LLC*

The Life of an Extension Poultry Veterinarian: Lessons Learned from My Personal Journey

Nathaniel Tablante, *University of Maryland College Park*

AAAP Diversity and Inclusion (D&I) committee: Evolving to meet the changing demographics of AAAP members

Eliza Ripplinger, *Best Veterinary Solutions*

An overview on the AVMA Working Group on the Psychological Impacts of Humane Endings

Michelle Kromm, *Food Forward LLC*

AAAP Research priorities committee survey results

Stephen Williams, *AAAP Research Priorities Committee*

Is male grading a proper management tool to improve male uniformity and livability as well as production performance?

Jose Bruzual, *Aviagen*

Posters

Poster Session on Tuesday July 9 at 5:15 PM in Midway West

Antimicrobials & Antimicrobial Resistance

1. Agroforestry tree leaves as feed supplements for improving growth and as an alternative to antimicrobial drugs in poultry breed of Jammu and Kashmir, India.

Mandeep Singh Azad, *Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu*

2. Relationship between antimicrobial use and resistance in Salmonella, Campylobacter, E. coli and Enterococcus from an on-farm U.S. broiler production monitoring system: 2020-2023

Randall Singer, *University of Minnesota*

3. Phenotypic and genotypic antimicrobial resistance profiling of Staphylococcus xylosus isolated from layer chicken barn bioaerosols in Alberta, Canada

Awais Ghaffar, *Faculty of Veterinary Medicine, University of Calgary*

4. Trained immunity or innate immune memory induced by CpG-ODN to protect broiler chickens against bacterial diseases

Iresha Subhasinghe, *University of Saskatchewan*

Avian Influenza

5. Evaluation of 5 and 10-day-old commercial Pekin ducklings (Anas platyrhynchos domesticus) naturally infected with H5N1 highly pathogenic avian influenza

Veronica Nguyen, *University of California, Davis*

6. Safety and Antibody Response of a RNA Vaccine Against H5Nx HPAI in Commercial Ducks Reared in Field Conditions in France

Christophe Cazaban, *Ceva Animal Health*

7. Environmental Sampling and Results on Multiple Turkey Farms with Highly Pathogenic Avian Influenza, from 2022 through 2023

Carrie Cremers, *Jennie-O*

8. Antigenic characterization of immune escape mutants of H7 low pathogenic avian influenza virus.

Jiho Lee, *SEPRL, USDA*

9. Pathology and viral tissue distribution of high pathogenicity avian influenza H5N1 in wild black-headed gulls (Chroicocephalus ridibundus) in France

Manuela Crispo, *IHAP, ENVT, INRAE, University de Toulouse*

10. Breeder farm biosecurity enhancements during the 2022-2023 HPAI outbreak

Marissa Studniski, *Select Genetics*

11. Avian influenza virus replication in bone marrow-derived dendritic cells induce cytokine dysregulation with eventual cell death

Jongsuk Mo, *USDA-ARS*

12. A Focus on the Basics of the National Poultry Improvement Plan (NPIP) Avian Influenza Compartmentalization Program

Savannah Busby, *USDA APHIS NPIP*

13. Genetic identification of the HPAIV (H5N1) in domestic birds received at the Faculty of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Peru (2022- 2024).

Rosa Gonzalez, *Universidad Nacional Mayor de San Marcos*

14. Active surveillance of Avian Influenza Virus from wild birds in Peru after highly pathogenic H5N1 subtype emergence (2023-2024)

Gina R. Castro-Sanguinetti, *Universidad Nacional Mayor de San Marcos*

15. Monitoring of commercial Layers vaccinated with a rHVT H5 vaccine in Peru

Claudia Carranza, *Ceva Salud Animal Peru*

16. Efficacy of an inactivated avian influenza H5N1 vaccine in layer hens

Melanie Caballero, *R&D Quimtia*

17. Development of an Inactivated Avian Influenza Virus Vaccine against local highly pathogenic H5N1 isolated in Peru

Melanie Caballero, *R&D Quimtia*

18. Update on Mexican lineage H5N2 low pathogenic avian influenza virus

David Suarez, *Agricultural Research Service*

Bacteriology

19. Correlation between Clostridium perfringens spore load and prevalence of netB-positive isolates in the poultry environment and necrotic enteritis on broiler chicken farms

John Maurer, *Virginia Tech*

20. Impact of a Postbiotic Containing Saponin, with or without Vaccination, on the Mitigation of Colibacillosis in Broilers Challenged with Avian Pathogenic Escherichia coli Serotype O78

Evan Chaney, *Cargill, Inc.*

21. In-vitro Bacillus-based probiotic screening against field Campylobacter hepaticus isolates

Kay Russo, *Chr Hansen*

22. Using an Experimental Blend of Mono- and Di-glycerides in the Starter Phase for Efficacy Against a Pathogenic Enterococcus cecorum Isolate in Broilers

Matthew Jones, *Southern Poultry Research Group, Inc.*

23. Assessment of virulence in novel Avian Pathogenic Escherichia coli (APEC) serogroups using in vitro and in vivo assays.

Klao Runcharoon, *Department of Population Health, College of Veterinary Medicine, University of Georgia*

24. Characterization of emergent Avibacterium paragallinarum strains in Brazil

Priscila Diniz Lopes, *Vaxxinova Brazil*

25. In-Vitro Evaluation of a Blend of Three Direct-Fed Microbial Bacillus Strains to Inhibit the Growth of Multiple Enterococcus cecorum and Enterococcus faecalis Field Isolates from Several Commercial Chicken Companies

Blair Telg, *Phibro Animal Health*

26. Ecology of Avian Pathogenic Escherichia coli in Commercial Turkey Production Across Time, Space, Tissue, and Vaccination Status

Lauren White, *University of Minnesota*

27. Identification, typing and antimicrobial susceptibility of Gallibacterium anatis isolates from Colombia.

Vladimir Morales Erasto, *Facultad de Medicina Veterinaria y Zootecnia - Universidad Nacional Autónoma de México*

28. Identification and typing of Avibacterium paragallinarum isolates obtained from commercial laying hens in Colombia.

Vladimir Morales Erasto, *Facultad de Medicina Veterinaria y Zootecnia - Universidad Nacional Autónoma de México*

29. Whole Genome Sequencing and Characterization of Enterococcus faecalis isolated from Pullet Layers with Growth Depression and Amyloid Arthropathy.

Aaliyah Gore, *North Carolina State University*

30. Mycoplasma synoviae Genotyping and Phylogenetic Analysis: A Comprehensive Study of Vha Gene Variation in the Middle East

Husam Bakri, *Vaxxinova International*

31. Importance of Mycoplasma Synoviae Vaccination in performance of breeders challenged with Infectious bronchitis virus: A field report from Colombia.

Francisco Perozo, *Boehringer Ingelheim*

32. The Effect of Sample Pooling on the Detection of Mycoplasma gallisepticum and Mycoplasma synoviae by Real-time PCR

Michael Davis, *UGA Poultry Diagnostic Research Center*

Case Reports

33. Weather or Management: A Series of Erysipelas Cases in Commercial Turkeys During an Unseasonable Midwest Winter

Ashley Poissant, *Jennie-O Turkey Store*

34. Case Report: Glaucoma, Corneal Edema, Cataracts, and Retinal Degeneration in Broiler Breeder Chickens

James Davis, *Georgia Poultry Laboratory Network*

35. Avian Coryza and Laryngotracheitis co-infection in layer chicken: A case report

Ahmed Achhal, *Clinique vétérinaire Tit Mellil*

36. Outbreaks of duck viral enteritis in breeding mallards for the British game sector in 2023

Christopher Poulos, *Pathology Department, Animal and Plant Health Agency*

37. Ocular Marek's Disease in a Black Shouldered Peafowl

Hailey Quercia, *Virginia Department of Agriculture and Consumer services*

Diagnostics

38. Modified Extraction Method Reduced Variation in Feather Corticosterone Replicates In Combination With High Extraction Efficiency

Nikolas Faust, *Poultry Science Department, Texas A & M University*

39. Nanopore Adaptive sampling: a new tool for in silico enrichment for respiratory pathogens from clinical samples

Maria Chaves, *Iowa State University*

40. New Infectious Bronchitis indirect ELISA, based on well conserved recombinant protein, for improved detection of live vaccines and challenge including variant strains

Rafael Forero, *Innovative Diagnostics*

41. Rapid Disease Diagnostics in Broiler Chickens Using Metabolomics

Asha Ranaraja, *University of Saskatchewan*

42. Advantages of Genotyping Infectious laryngotracheitis virus (ILT) from Clinical Samples Using MinION

April Skipper, *University of Georgia*

43. Enhancing Diagnostic Efficiency: Implementation of a Multi-Laboratory Platform for Poultry Diagnostics

Dimitri Popov, *Aggio*

44. Optimizing Metagenomic Approaches for Enhanced Food Safety in Poultry Production Environment.

Mostafa Ghanem, *University of Maryland, College Park*

45. Use of High-Resolution Melting Point RT-PCR for Confirming the Effectiveness of Two Live IB Vaccine Strains Application When Administered Simultaneously at the Hatchery and at Farm Level in Layers

Francisco Rios-Cambre, *MSD Salud Animal Mexico*

46. Looking beyond implementing Oxford Nanopore Technologies (ONT) in poultry diagnostics: Lessons Learned from Years of Working with ONT

Amro Hashish, *Iowa State University*

47. IBV molecular surveillance using Oxford Nanopore MinION sequencing

Renato Luciano, *Biological Institute, Advanced Center of Research and Development for Poultry Health*

48. The Advantages of Hemagglutination Inhibition (HI) MGMS Test Automation Using a Lynx LM900 by Dynamic Devices Versus Manual Testing

Sara Cooper, *Georgia Poultry Laboratory Network*

49. Use of a new veterinary diagnostic tool for ELISA titer data analysis and interpretation

Reshma Ramachandran, *Professional Services Veterinarian-II*

50. HVT-NDV hatchery vaccination evaluation using a fusion protein-specific ELISA

Duane Murphy, *Farbest Farms, Inc.*

51. Developing Third Generation Sequencing Assays to Rapidly Analyze Whole Genome and Hexon Genotypes from Field Samples and Isolates of Fowl Adenovirus

Derek Moormeier, *Ceva Animal Health*

52. Incidence of airsacculitis in newly hatched broiler chicks in Brazil: possible causes and potential consequences

Jorge Chacon, *Ceva Animal Health - Veterinary Services, Brazil*

53. Developing a novel method for sequencing the whole genome of infectious bursal disease virus

Julia McElreath, *Ceva Animal Health*

54. Genetic Evolution of Avian Reoviruses in France (2016-2023), First Applications of Oxford Nanopore Sequencing.

Guillaume Croville, *University of Toulouse*

55. Evaluating the role of Vitamin E in Turkey Degenerative Myelopathy Syndrome

Jonathan Elissa, *Penn State University*

Enteric Health

56. Colonization of Probiotic Bacteria in the Intestine of Chicken Embryos Following Coarse Spray on Incubating Eggs

Mihiprabha Rathnayake, *University of Saskatchewan*

57. Effect of RfC in the relative genetic expression of mRNA for: IgG, IgM, and INF γ , and histomorphometry in the intestine of broiler chickens.

Sebastian Mena, *Dimune, Veterinary Services*

58. Crude Protein and Starch Analyses of Fecal Feed Particles obtained from 60 Day-old Broilers

Samuel Christenberry, *Alabama Veterinary Diagnostic Laboratory*

59. Ex vivo assessment of the direct and indirect antimicrobial capacities of glycerides of lauric acid using gastrointestinal fluids

Wanderley Quinteiro-Filho, *Adisseo LATAM*

60. Effect of *Bacillus subtilis* DSM29784 secreted metabolites on poultry resilience

Wanderley Quinteiro-Filho, *Adisseo LATAM*

61. Microbiome Changes and Horizontal Transmission of *Salmonella infantis* in Broilers Consuming Feed Treated With Feed Sanitizers, Organic Acid Blends, Probiotics and Combinations

Enrique Montiel, *Anitox Corporation*

62. Microbiome Shifts in Birds Fed *Quillaja saponaria* and *Yucca schidigera* Biomass that are Related to Performance Outcomes

Luis Gomez, *Phibro Animal Health Corporation*

Infectious Bronchitis Virus

63. Detection of Avian Infectious Bronchitis GI-23 (Variant 2) Virus in Mexico During 2023

Juan Carlos Valladares de la Cruz, *Phibro Animal Health*

64. Epidemiological assessment of Infectious Bronchitis Virus after the detection of strains of the GI-23 lineage in Brazil

Jose Emilio Dias, *Phibro Animal Health, Instituto Federal Catarinense, Concórdia – SC, Brazil*

65. Reduction on airsacculitis condemnations in commercial broiler and griller flocks after introduction of homologous vaccine against IBV GI-23 lineage in Brazil

Josiane Griebeler, *MSc. In veterinary science in Poultry Health - UFRGS*

66. Improvement in the airsacculitis condemnation, antibiotic therapy, and mortality after introduction of a homologous vaccine against IBV - Var 2 (IS/1494/06 strain)

Andre Marca, *DVM, University of Santa Catarina State (UDESC) - Brazil*

67. Evaluation of Two Bronchitis Vaccines under field conditions

Lucas Colvero, *MSD Saúde Animal*

68. Efficacy of TABic® IBVAR206 vaccine against challenge with Infectious Bronchitis Virus BR-1 field strain in broiler chickens

Dana Goldenberg, *Phibro Animal Health*

69. Effect of spraying supplemental passive IBV antibodies in the protection against early IBV exposure in chicks

Rachel Jude, *Department of Population Health & Reproduction, University of California, Davis*

70. Identification and Geographic Location of Variant Strains of Infectious Bronchitis Virus in Broiler and Layer Farms in Peru 2023

Cesar Reyes, *MSD Salud Animal - Peru*

71. Cross-protection studies using GA08 and Mass type IBV vaccines against four different antigenic variant viruses currently circulating in poultry in the USA and Canada.

Mark Jackwood, *Ceva Animal Health*

72. Polymorphisms of S1 Sequence following Single or Dual Infectious Bronchitis Virus Strains Passage in Embryonated Chicken Eggs

Ming-Kun Hsieh, *Graduate Institute of Microbiology and Public Health, National Chung Hsing University, Taiwan*

Infectious Bursal Disease

73. Disease Awareness Program : Field survey of Infectious Bursal Disease Virus from broiler and layer farms in Peru during 2020 and 2022

Claudia Carranza, *Ceva Salud Animal - Peru*

74. Infection by Genogroup 4 strains of Infectious Bursal Disease Virus negatively affects mortality and feed conversion in commercial broiler flocks in Brazil

Jose Emilio Dias, *Phibro Animal Health, Instituto Federal Catarinense, Concórdia – SC, Brazil*

75. Generation of avian paramyxovirus type 1 TS09 strain-based recombinants expressing the VP2 protein of infectious bursal disease virus and a chicken cytokine as dual vaccines for in ovo vaccination

Qingzhong Yu, *USDA/ARS, US National Poultry Research Center*

76. Genetic and epidemiological characteristics of Infectious Bursal Disease Virus circulating in broiler flocks in Brazil

Jorge Chacon, *Veterinary Services - Ceva Animal Health, Brazil*

77. Datamining an infectious bursal disease field trial database comparing bursal atrophy effect on performance data, serology and biochemistry profile. Putting it all together Part 2

Daniel Venne, *Ceva animal health*

78. Molecular detection and characterization of emerging novel variant IBDV (genotype A2dB1b) in the Middle East prompts concern of spread of subclinical disease forms

Matteo Legnardi, *Department of Animal Medicine, Production and Health (MAPS), University of Padova*

79. Title Comparing recombinant infectious bursal disease virus vaccines: field observations, bursal size, DIVA serology, qPCR and sequencing. Putting it all together. Part 1

Brenna Tuer, *Cargill Canada*

80. Reassortant strains of infectious bursal disease virus (IBDV) belonging to genogroup A3B1 predominate in British broiler flocks

Vishwanatha Reddy Avalakuppa Papi Reddy, *The Pirbright Institute or Keele University*

81. Immunoprotection of broiler chickens against variant infectious bursa disease virus (varIBDV SK09) and associated B cell, T cell subsets and macrophage profile in the bursa of Fabricius

Ayumi Matsuyama, *University of Saskatchewan*

Parasitology/Coccidiosis

82. Effects of a proprietary essential oil product on body weight, feed conversion, and mortality of Ross 708 broilers that are either vaccinated or unvaccinated against coccidiosis at placement

Sharon Heins Miller, *Devenish Nutrition LLC*

83. Comparison of live attenuated and live-non attenuated vaccines on the safety of the administration of an overdose using the model of the European Monograph in SPF chickens

Joan Molist, *Laboratorios HIPRA S.A.*

84. Comparative analysis of broiler chicken productivity following vaccination with different coccidiosis vaccines and using different administration methods

Joan Molist, *Laboratorios HIPRA S.A.*

85. Use of an attenuated Eimeria vaccine in broilers with in-ovo application for on-farm hatching

Joan Molist, *Laboratorios HIPRA S.A.*

86. Single fecal collection for oocyst shedding does not predict infection for all Eimeria species

Robert Beckstead, *Ceva Animal Health, LLC*

87. Prevalance of Gastro-Intestinal Parasites in Backyard Chicken at Bharatpur-11, Nepal

Naresh Sah, *Nepal polytechnic Institute, College of Veterinary Science*

88. Leucocytozoonosis: Diagnosis and PCR analysis in avian species in Canada

Emily Martin, *Animal Health Laboratory, University of Guelph*

Reovirus

89. Understanding the variability of avian reovirus through adaptation attempts of the virus by serial passages in cell culture and embryonated chicken eggs

Abdul Rehman Bilal, *Department of Population Health and Reproduction, School of Veterinary Medicine, UC Davis*

90. Determination of Purity of an Avian Reovirus Isolate following Plaque Purification

Zubair Khalid, *Auburn University*

91. Amino Acid Sequence Confirmation and Peptide Analysis of Avian Reovirus Proteins by Mass Spectrometry

Steven Conrad, *USDA*

92. Construction of recombinant Marek's disease virus vaccine expressing sigma C proteins of avian reoviruses

Taejoong Kim, *Southeast Poultry Research Laboratory, US National Poultry Research Center, USDA-ARS*

93. Identification of the Role of Avian Reovirus Infection in Various Poultry Diseases in India

Namdeo Bulbule, *Assistant General Manager*

94. First Seroprevalence Survey of Avian Reovirus in Broiler Breeders Chicken Flocks in Morocco

Ahmed Achhal, *Clinique vétérinaire Tit Mellil*

95. Correlation Study Exploring the Relationship Between Maternal Titer and Maternal Antibody Levels in Turkeys for Reovirus

Evan VanBeusekom, *Hendrix Genetics - Hybrid Turkeys LLC*

96. Genotypic and pathological characterization of emerging avian reoviruses isolated from clinical cases in Georgia, USA

Sujit Mohanty, *USDA-ARS*

97. Proteomics of Avian Reovirus

Telvin Harrell, *United States Department of Agriculture*

Salmonella

98. Cross-protection conferred by a live-attenuated Salmonella Enteritidis vaccine against Salmonella Heidelberg and Salmonella Infantis challenge

Luiz Sesti, *Ceva Animal Health*

99. Evaluating Salmonella Serotype Bias in Various Enrichment Protocols

Katie Murray, *Georgia Poultry Laboratory Network*

100. A Novel Approach to the Salmonella ISR Genotyping of Field Isolates Using Nanopore Sequencing Technology

Scott Callison, *Ceva Animal Health*

101. Evaluation of different inactivated vaccines to control Salmonella on the performance and productivity of laying birds up to 37 weeks of age

Eva Hunka, *Phibro Animal Health Corporation*

102. Correlation between titers obtained in ELISA and Widal test for serological analysis of Salmonella groups B, C1 and D.

Eva Hunka, *Phibro Animal Health Corporation*

103. Live Salmonella Vaccine Compatibility with Competitive Exclusion Solution

Elizabeth Krushinskie, *Food Safety Risk Management Consulting LLC*

Vaccinology

104. HVT-ILT-IBD: A Double Recombinant HVT-Based Vaccine for Protection Against IBDV and ILTV Plus Marek's Disease Virus

Paula Dyas, *Merck Animal Health*

105. Induction of protective mucosal immunity against avian coronavirus via nanoparticle-synchronized antigen and adjuvant delivery to the chicken Harderian gland

Hui-Wen Chen, *National Taiwan University*

106. Differences on Broilers Productive Performance Parameters Between Different Vaccination Protocols Against IBD and ND as Measured by a Statistical Analysis Model in Colombia

Camilo Andres Medina Santos

107. Comparison of two vaccination programs against fowl adenovirus serotype 8b (FAdV-8b) in broiler breeders in Peru

Bruno García, *Ceva Animal Health Peru*

108. Efficacy of different inactivated vaccines against infection with the B serovar variant of Avibacterium paragallinarum from Argentina in laying hens

Joan Molist, *Laboratorios HIPRA S.A.*

109. Correlation between the spray dye levels on the body of broilers and the corresponding viral load in the trachea 6 days after vaccination against Infectious Bronchitis Virus

Jose Emilio Dias, *Phibro Animal Health, Instituto Federal Catarinense, Concórdia – SC, Brazil*

110. Evaluation of vaccine take in commercial broilers flocks vaccinated with a homologous vaccine against Infectious Bronchitis Virus GI-23 lineage in Brazil

Jose Emilio Dias, *Phibro Animal Health, Instituto Federal Catarinense, Concórdia – SC, Brazil*

111. Monitoring of a rHVT vaccine against Marek's disease and Avian Influenza H5 in Broiler Breeders

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112. Effects of homologous vaccination against IBV GI-23 lineage on tracheal lesion, serology, antibiotic therapy, mortality, and airsacculitis condemnation in commercial broiler flocks in Brazil

Daiane Horn, *Universidade Federal do Paraná, Palotina - PR, Brazil*

113. Investigation of procedures and water quality impacting vaccine effectiveness in egg layers in Alberta

Muhammad Farooq, *University of Calgary*

114. Preliminary Evaluation of InvG as a Novel Salmonella Vaccine Candidate: Immunogenicity and Efficacy in Layer Chickens

Roshen Neelawala, *University of Florida*

115. Control of a Respiratory Complex in a Highly Challenged Region in Layers in Mexico

Francisco Rios-Cambre, *MSD Salud Animal Mexico*

116. Before and after comparison from using Nobilis® SG9R on a commercial layer, using the Friedman test for repeated measurements, ANOVA non parametric equivalent of repeated measurements

Camilo Andres Medina Santos

117. Evidence of booster response of rFP-gB (ILT) in high ILT prevalence areas in Peru

Claudia Carranza, *Ceva Salud Animal - Peru*

118. Mucosal and Serum Antibody Responses Elicited by Single Vaccination with Recombinant LaSota Virus Expressing IBV Spike in Chickens with NDV Maternal Antibodies

Camila Cuadrado, *Department of Pathobiology, College of Veterinary Medicine, Auburn University*

Virology

119. Respiratory and gastrointestinal microbiome analysis of chicken infected with infectious bronchitis virus (DMV/1639)

Heshanthy Herath, *Faculty of Veterinary Medicine, University of Calgary*

120. Inclusion Body Hepatitis (IBH) vaccines in Peru: an immunogenicity check

Claudia Carranza, *Ceva Salud Animal - Peru*

121. Vaccine Takes Evaluation of Turkey Herpesvirus vector - Newcastle Disease Recombinant Vaccine (HVT- ND) by Using on-site iiPCR Analyzer

Keat Fu, *Aviagen Inc*

122. US-UK Collab: Influence of vaccines, host genetics, and mutation rates on the evolution of infectious diseases

John Dunn, *USDA-ARS, US National Poultry Research Center*

123. Comparative Transcriptome Analysis of Chicken Embryos after Infection with Low Pathogenic Newcastle Disease Virus (LoNDV) from Wild Birds

Deepa Chaudhary, *Auburn University*

124. Genetic and pathogenic characterization of avian Paramyxovirus isolated from domestic birds in Perú (2004-2022)

María Eliana Icochea D'Arrigo, *Universidad Nacional Mayor de San Marcos*

125. Detection of Infections Laryngotracheitis Virus (ILTV) circulating in broilers with and without clinical signs

Jose Linares, *Ceva Animal Health*

126. Identification and Functional Characterization of a Virokine Homologous to Chicken Interleukin-4 in Infectious Laryngotracheitis Virus

Stephen Spatz, *US National Poultry Research Center, ARS-USDA*

127. Sequence and phylogenetic analyses of chicken astroviruses (CAstVs) detected at Mississippi State University between 2016 to 2023 and associated with digestive and hatchability issues.

Alejandro Banda, *Poultry Research and Diagnostic Lab Mississippi State University*

128. Molecular characterization of emerging variants of turkey coronavirus associated with outbreaks in turkeys in 2023

Muhammad Luqman, *South Dakota State University*

Wealth of Knowledge

129. National Poultry Improvement Plan (NPIP): A Review of the Proposed Changes for the 46th Biennial Conference and the Federal Rulemaking Process

Elena Behnke, *USDA APHIS VS NPIP*

130. The Importance of Contact Time in Using Ultraviolet Light as a Disinfectant

Katherine Schaeffbauer, *Jennie-O Turkey Store*

131. Multi-causal respiratory disease and co-infection profiles in Latin America (2nd semester 2023): Brazil, Colombia and Peru as examples

Adam Jbenyeni, *Ceva Animal Health, France*

132. Management of vaccination program against Infectious Bronchitis Virus as a tool to reduce antibiotic therapy in broilers in Brazil

Josiane Schuvank Maculan Salvo, *Universidade Estadual do Centro Oeste (UNICENTRO) - Brazil*

133. Developing Sterile Insect Technique (SIT) using Wolbachia for potential biocontrol of Litter beetles (*Alphitobius diaperinus*)

Teresa Dormitorio, *Auburn University, Poultry Science Department*

134. Significance of Biosecurity Audits in Addressing High Pathogenic Avian Influenza (HPAI) Challenges

Mostafa Ghanem, *University of Maryland, College Park*

135. The Great, the Good, the Untestable Serum

Jaime Hamrick, *Georgia Poultry Laboratory Network*

136. Safety in Necropsy: Human Protection for Poultry Dissection

Adriana Guzman, *Georgia Poultry Laboratory Network*

137. Part 2: NPIP Salmonella Program Overview Specific to Pullorum-Typhoid

Katy Burden, *USDA NPIP*

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