

# Saturday, July 31, 2021

Room		
Topic	Avian Influenza	Virology: Reovirus
Moderator		
8:00 AM	<p><b>Protection of chickens against North American H5N2 and H7N3 avian influenza viruses following updates in hemagglutinin inserts of licensed recombinant fowlpox vectored vaccines</b> David Swayne, <i>USDA/ARS/SEPRL</i></p>	<p><b>Infectivity Studies of Avian Reovirus Variants in Egg-Laying Hens</b> Huaguang Lu, <i>The Pennsylvania State University</i></p>
8:15 AM	<p><b>Characterizing the Antigenic Evolution of North American H9N2 Avian Influenza Viruses</b> Erica Spackman, <i>SEPRL-USDA-ARS</i></p>	<p><b>Genotyping, Antigenic Variation, and in vitro Neutralization of Avian Reovirus Isolates from Mississippi</b> Rebecca Mackey, <i>Poultry Research and Diagnostic Lab, Mississippi State University</i></p>
8:30 AM	<p><b>Evaluation of the Efficacy of an Inactivated ND+AIVH9N2 Vaccine in Broilers with maternal H9N2 Antibodies against virulent LPAI H9N2 Virus Challenge</b> Andreas Herrmann, <i>Boehringer Ingelheim</i></p>	<p><b>Antigenic Cartography as a Tool to Determine Antigenic Relatedness of Avian Reovirus Variants</b> Sofia Egana, <i>University of California, Davis</i></p>
8:45 AM	<p><b>Genotypic changes in low pathogenicity avian influenza viruses after replication in chickens and turkeys</b> Christina Leyson, <i>Southeast Poultry Research Laboratory</i></p>	<p><b>Sequence based pathotyping of Turkey Arthritis Reovirus</b> Sunil Mor, <i>University of Minnesota</i></p>
9:00 AM	<p><b>Adaptation of Mexican lineage H5N2 low pathogenic avian influenza virus in chickens</b> Mary Pantin-Jackwood, <i>Southeast Poultry Research Laboratory. USDA, ARS</i></p>	<p><b>Turkey breeders perspective: how to effectively protect poults from reovirus through vaccination of parents.</b> Cynthia Philippe, <i>Hendrix Genetics</i></p>
9:15 AM	<p><b>A Preliminary Survey of Hemagglutinating Viruses from Raptors and Owls in the Districts of Pinamar, General Madariaga and La Plata, Province of Buenos Aires, Argentina.</b> Celina Buscaglia Barreda, <i>Comision de Investigaciones Cientificas de la Provincia de Buenos Aires and Facultad de Ciencias Vet</i></p>	<p><b>Response of Turkey Breeding Hens to Vaccination with a Commercial Modified Live Chicken Reovirus</b> Ben Wileman, <i>Select Genetics</i></p>
9:30 AM	<p><b>Linking Remote Sensing to Targeted PCR based Environmental Sampling for Detection of Avian Influenza in Waterfowl</b> Maurice Pitesky, <i>UC Davis School of Veterinary Medicine</i></p>	<p><b>To Standardize A Sampling Scheme for Early Detection of Turkey Arthritis Reovirus Infection</b> Rahul Kumar, <i>University of Minnesota</i></p>
9:45 AM	<p><b>Isolation and Subtyping of Avian Influenza Strains from Wild Birds of the Coast of Peru, 2019-2020</b> Gina Castro-Sanguinetti, <i>Universidad Nacional Mayor de San Marcos</i></p>	<p><b>Age Susceptibility and Horizontal Transmission of Turkey Arthritis Reovirus</b> Rahul Kumar, <i>University of Minnesota</i></p>
10:00 AM	<p><b>Is Artificial Insemination a Method of LPAI Spread in Breeder Turkey Flocks?</b> Marion Garcia,</p>	<p><b>Reovirus Infection Associated with Rupture Tendon at Processing - Retrospective Study</b> Taylor Boyett, <i>College of Veterinary Medicine North Carolina State University</i></p>
10:15 AM	<b>Break</b>	

Topic	Case Reports	Diagnostics
Moderator		
10:30 AM	<b>An Unexpected Lesion Associated with Woody Breast that Affected Livability and Processability in a Commercial US Broiler Flock</b> Robinette Gilbert, <i>Sanderson Farms, Inc.</i>	<b>Development and Evaluation of a Turkey Coronavirus Enzyme-Linked Immunosorbent Assay (ELISA) using S1 spike protein</b> Yuko Sato, <i>Iowa State University</i>
10:45 AM	<b>Case Report: Mitigation strategies for Histomoniasis in Broiler Breeders</b> Eric Shepherd, <i>University of Georgia College of Veterinary Medicine</i>	<b>Non-target RNA Depletion Strategies to Improve Sensitivity of Next-Generation Sequencing (NGS) for Diagnosing Infectious Agents in Poultry</b> Joshua Parris, <i>Southeast Poultry Research Laboratory, USDA-ARS</i>
11:00 AM	<b>Clinical investigation of early embryonic death in turkey hatching eggs</b> Marissa Studniski, <i>Select Genetics</i>	<b>Precision farming: A new tool and database to monitor recombinant turkey herpesvirus vaccine applications in commercial birds.</b> YUN-TING WANG, <i>Merck Animal Health</i>
11:15 AM	<b>Reoviral Hepatitis In Commercial Hen Turkeys</b> Laura Tensa, <i>Cargill</i>	<b>Comparative Analysis of Detection of Chicken Respiratory Pathogens in Clinical Swabs using MinION- and MiSeq-based Sequencing of Total RNA</b> Salman Latif Butt, <i>University of Agriculture Faisalabad</i>
11:30 AM	<b>Sunday Morning Calls are Never Good!</b> Sara Throne, <i>Simmons Foods, Inc.</i>	<b>Development of Core Genome Multilocus Sequence Typing (cgMLST) Scheme for genotyping of Pasteurella multocida</b> Mohamed El-Gazzar, <i>Iowa State University</i>
11:45 AM	<b>Reoccurring Bordetella Exposure at a Commercial Turkey Brood Hub</b> Jolene Tourville, <i>Jennie-O Turkey Store</i>	<b>Diagnostic investigation of virus etiology from broiler chickens exhibiting bursal atrophy</b> Arun Kulkarni, <i>Georgia Poultry Laboratory Network</i>
12:00 PM	<b>Lunch Break</b>	
<b>Room</b>		
Topic	Virology: Miscellaneous	Immunology
Moderator		
1:15 PM	<b>Host range barriers for replication of SARS-CoV-2 (COVID-19) in avian species</b> Darrell Kapczynski, <i>USDA-USNPRC</i>	<b>Characterization of immune responses after vaccination and challenge with IBV using RNA scope and flow cytometry</b> Rodrigo Gallardo, <i>University of California, Davis</i>
1:30 PM		<b>Responses of Chicken Macrophages to Clostridium perfringens isolates varying in their Pathogenicity</b> Ravi Kulkarni, <i>NC state University</i>
1:45 PM	<b>Hyperimmunized Chickens Produce Neutralizing Antibodies against SARS-CoV-2</b> Emily Aston, <i>University of California-Davis</i>	<b>Assessment of Activated and Regulatory T cells in the Trachea of Vaccinated Chickens as a Recall to an Infectious Laryngotracheitis Virus (ILT) Challenge</b> Daniel Maekawa, <i>University of Georgia</i>
2:00 PM	<b>Epidemiological Investigation of Inclusion Body Hepatitis by Fowl Aviadenovirus in Poultry in Spain (2011-2020)</b> Kateri Bertran Dols, <i>IRTA-CReSA</i>	<b>Effect of an Innocuous Prebiotic Powder as Antigen Presenter and Immune Response Stimulator in Broilers</b> Andres Rodriguez-Avila, <i>BioARA SAS</i>

2:15 PM	<b>Risk of Egg Drop Syndrome 76 transmission in broiler chickens</b> David Suarez, <i>Southeast Poultry Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture</i>	<b>Extracellular vesicles released from chicken tracheal cells present distinct proteomic signatures upon avian influenza virus infection and Toll-like receptor ligand stimulation</b> Kelsey O'Dowd, <i>Université de Montréal</i>
2:30 PM	<b>Transmissible Viral Proventriculitis in broilers and layers: etiological investigation of field cases, 2011-2020, France</b> Jean-Luc Guerin, <i>ENVT, University of Toulouse</i>	<b>Georgia Titters 102</b> Louise Dufour-Zavala, <i>GPLN</i>
2:45 PM	<b>Pathology and Immunohistochemical Findings of Avastrovirus Infection in Chicks with White Chick Syndrome</b> Monique Franca, <i>UGA</i>	<b>The Influence of Ascaridia galli Development on Cytokine Gene Expression and Intestinal Microbiota of Infected Chickens</b> Maria Tereza Bethonico Terra, <i>Auburn University</i>
3:00 PM	<b>Break</b>	
<b>Room</b>		
<b>Topic</b>	<b>Salmonella</b>	<b>Vaccinology</b>
<b>Moderator</b>		
3:15 PM	<b>Effectiveness and compatibility of live Salmonella vaccine and live yeast probiotic in a Salmonella Enteritidis challenge model in broilers</b>	<b>Field Experiences with Recombinant Vaccines and Interactions with Modified Live Vaccines in the Same Flocks</b> Philip Stayer, <i>Sanderson Farms</i>
3:30 PM	Chuck Hofacre, <i>Southern Poultry Research Group, Inc.</i>	<b>Onset of Immunity of a Recombinant HVT-IBD-ND Vaccine Against a Velogenic NDV and a Very Virulent IBDV Challenge</b> Sing Rong, <i>Zoetis</i>
3:45 PM	<b>Impact of AviPro® Megan® Vac 1 to Reduce Salmonella Contamination in Broilers</b> Jaime Ruiz, <i>Elanco Animal Health</i>	<b>Turkey Haemorrhagic Enteritis Live Vaccination Controls Field Strains Circulation and Challenge</b> Caterina Lupini, <i>University of Bologna</i>
4:00 PM	<b>Evaluation of Vaccination Techniques on Development of Hemorrhagic Hepatopathy in Broiler Breeders, a Pilot Study</b> Michael Quist, <i>University of Georgia Poultry Diagnostic and Research Center</i>	<b>Optimizing Infectious Bronchitis Virus Vaccination of Commercial Broiler Breeder Pullets the Day of Placement</b> Erin Riley, <i>Sanderson Farms Inc.</i>
4:15 PM	<b>Evaluation of the toxigenicity of lipopolysaccharide associated with chicken hepatopathy.</b> Robert Evans, <i>Elanco</i>	<b>Deletion of Thymidine Kinase Reduces Protection of Marek's Disease Vaccine Candidate</b> John Dunn, <i>USDA-ARS</i>
<b>Topic</b>	<b>Salmonell</b>	<b>Antimicrobial</b>
4:30 PM	<b>On Farm Salmonella Prevention: Feed Mills Focus</b> Geneviève Huard, <i>Hendrix Genetics Ltd</i>	<b>Effect of Electrostatic Aspersión of a Novel Bound Residual Antimicrobial on Hatchability and Chick Quality</b> Ivan Alvarado, <i>Merck Animal Health</i>
4:45 PM	<b>The Role of Vertical Transmission and Egg Adaptation of Salmonella Infantis in Broiler Vertical Integrations</b> Martha Pulido, <i>Mississippi State University</i>	<b>On-farm Monitoring of Antimicrobial Use and Resistance in U.S. Broiler Production</b> Randall Singer, <i>University of Minnesota</i>
5:00 PM	<b>Adjourn</b>	

# Sunday, August 1, 2021

Room		
Topic	Salmonella	Virology: IBD
Moderator		
8:00 AM	<b>Genetic characterization of Salmonella Enteritidis recovered from chicken samples collected by the USDA Food Safety and Inspection Service from Mississippi between 2016 and 2020</b> Roxana Sanchez-Ingunza, <i>RSI Poultry veterinary Consulting LLC</i>	<b>Evaluation of rHVT-ND-IBD Vaccination and Challenge with Contemporary IBDV Variant Field Isolates</b> Holly Sellers, <i>The University of Georgia, Athens, GA USA</i>
8:15 AM	<b>Histopathologic alterations with Salmonella Typhimurium and dietary tungsten in chickens</b> Jason Sousa, <i>Texas A&amp;M University College of Veterinary Medicine</i>	
8:30 AM	<b>Arizonosis in Commercial Turkey Poults</b> Claude Hebron, <i>Prestage Farms</i>	<b>Ability of a Novel Immune-Complex Vaccine to Successfully Immunize Long-living Chickens Against Gumboro Disease in Various Field Conditions</b> Christophe Cazaban, <i>Ceva Animal Health</i>
8:45 AM	<b>The distribution of salmonella spp. in a commercial turkey operation in North Carolina</b> Cameron Ellington, <i>North Carolina State University</i>	<b>A Comparison of Immunogenicity between MB-1, an IBD Live Attenuated Gumboro Vaccine and an IBD Immune-Complex Vaccine Applied in-ovo in Maternally Derived Antibody positive broilers</b> Virginie Loeb, <i>Phibro</i>
Topic	Bacteriology	Virology: NDV
9:00 AM	<b>Avibacterium paragallinarum Field Strain Persistence in Water at Two Different Temperatures</b> Rodrigo Gallardo, <i>University of California, Davis</i>	<b>EFFICACY OF VHVT-ND VACCINES ADMINISTERED TO DAY-OLD TURKEY CHICKS AGAINST VELOGENIC NEWCASTLE CHALLENGE AT 28 DAYS OF AGE</b> Andrea Delvecchio, <i>Boehringer Ingelheim AH</i>
9:15 AM	<b>A Peculiar Avibacterium paragallinarum Infection in Layers with Complete Absence of Any Clinical Presentation of Infectious Coryza</b> Amro Hashish, <i>IOWA State University</i>	<b>PROTECTION AGAINST VARIOUS VELOGENIC NEWCASTLE DISEASE CHALLENGES OF A TRIVALENT HVT-VECTORED VACCINE AGAINST MAREK'S DISEASE, INFECTIOUS BURSAL DISEASE AND NEWCASTLE DISEASE</b> Stephane Lemiere, <i>Boehringer Ingelheim</i>
9:30 AM	<b>Erysipelothrix Rhusiopathiae Septicemia In Two Pastured Turkey Flocks</b> Jarra Jagne, <i>Cornell University Animal Health Diagnostic Center</i>	<b>Newcastle Seroconversion to an HVT-IBD-ND Vaccine vs. a Modified Live ND Vaccine in Broilers</b> Jose Linares, <i>Ceva Animal Health</i>
9:45 AM	<b>Turkey barn environmental microbiome changes associated with downtime</b> Michelle Kromm, <i>Jennie-O Turkey Store</i>	<b>Characterization of the Thermal Inactivation Profile of Newcastle Disease Virus in Poultry Litter</b> JONGSEO MO, <i>USDA Southeast Poultry Research Laboratory</i>
10:00 AM	<b>Break</b>	
Room		
10:15 AM	<b>Wellness Talk:</b>	
10:45 AM	<b>Business Meeting</b>	

12:00 PM	<b>Lunch Break</b>	
<b>Room</b>		
<b>Topic</b>	<b>Bacteriology</b>	<b>Coccidiosis</b>
<b>Moderator</b>		
1:15 PM	<b>Impact of Bacillus-based Feed Additive on the Presence of Avian Pathogenic E. coli (APEC) in Commercial Turkey Flocks</b> Elise Gerken, <i>Jennie-O Turkey Store</i>	<b>Topic Keynote: Effectiveness of Anticoccidials and Coccidia Vaccination in Broiler Chickens Analyzed by Network Meta-Analysis</b> Ruediger Hauck, <i>Auburn University</i>
1:30 PM	<b>Impact of E. coli Vaccine on the Presence and Antibiotic Susceptibility of Avian Pathogenic E. coli (APEC) In the Environment of Commercial Turkey Flocks</b> Katie Stumvoll, <i>Jennie-O Turkey Store</i>	
1:45 PM	<b>Genomic Characterization of Avian Pathogenic E. coli Co-isolated with Enterococcus spp. in Cases of Avian Colibacillosis</b> Grayson Walker, <i>NC State University</i>	<b>In Ovo Vaccination of Chickens Against Eimeria Maxima Infection Using Recombinant EmaxIMP1 Protein Linked to Nanoparticles</b> Mark Jenkins, <i>ARS-USDA</i>
2:00 PM	<b>Effects of Hops-derived Feed Additive on the Control of Gangrenous Dermatitis in Male Turkeys</b> Carrie Cremers, <i>Jennie-O Turkey Store</i>	<b>Use of a Sporulated Oocyst Coccidiosis Vaccine to Induce Immunity through Trickle Infection Under Field Conditions</b> Mark Mouw, <i>Wilson Veterinary Co.</i>
2:15 PM	<b>Focal Ulcerative Dermatitis Syndrome in Midwestern Laying Hens</b> Kay Russo, <i>Land O' Lakes/Purina</i>	<b>Comparison of Three Live Coccidiosis Vaccine Protective Immunity Against Seven Field Isolates</b> Andres Montoya, <i>Merck Animal Health</i>
<b>Topic</b>	<b>Mycoplasma</b>	<b>Coccidiosis</b>
2:30 PM	<b>Application of Comparative Genomics to Mycoplasma gallisepticum Vaccine Studies</b> Mohammadreza Ehsan, <i>University of Georgia</i>	Jose Bruzual,
2:45 PM	<b>Sero-conversion of a Commercial Layer Flock Vaccinated with MG ts-11 and MS MS-H is Not Associated with Wild-type Colonisation</b> Chris Morrow, <i>Bioproperties</i>	<b>Dynamically expressed genes provide candidate viability biomarkers in the model coccidian Eimeria acervulina</b> Matt Tucker, <i>USDA</i>
3:00 PM	<b>Adjourn</b>	

# Monday, August 2, 2021

Room		
Topic	Case Reports	Coccidiosis
Moderator		
8:00 AM	<b>Tracking a Salmonella Gallinarum Outbreak on a Commercial Pullet Rearing Facility in South Africa</b> Gregory Celliers, <i>Hy-Line International</i>	<b>Examination of One of the First Coccidiosis Vaccines: anticoccidial drug sensitivity, immunity development, and broiler performance</b> Greg Mathis, <i>Southern Poultry Research, Inc.</i>
8:15 AM	<b>Turkey Coronavirus Diagnostic Challenges During COVID 2020</b> Brian Wooming, <i>Cargill Turkey &amp; Cooked Meats</i>	<b>Evaluation of the sensitivity of product freeze indicators and the effects of short-term/ mild freezing on live coccidiosis vaccine</b> Nicholas Brown, <i>Huvepharma Inc.</i>
8:30 AM	<b>A Case Report of High Mortality in Chickens due to Infectious Bronchitis Virus.</b> Julia Blakey, <i>USDA- ARS USNPRC</i>	<b>Recombinant Bacillus subtilis expressing a chicken NK lysin peptide as an effective mucosal delivery strategy to prevent and control avian coccidiosis</b> Samiru Wickramasuriya, <i>USDA-Agricultural Research Service</i>
8:45 AM	<b>Clinical Investigation of Neurologic Symptoms in Turkey Breeder Hen Candidates</b> Jake Carlson, <i>Select Genetics</i>	<b>Experience with a Novel Technology Utilizing Ferrofluid for Rapid Enumeration of Eimeria from Commercial Broiler Farm Samples</b> Sue Ann Hubbard, <i>Merck Animal Health</i>
9:00 AM	<b>Unusual cases of botulism in pullets and breeders.</b> Kurt Dobson, <i>George's Inc.</i>	<b>OPGs: What Do they Mean?</b> Hector Cervantes, <i>Phibro Animal Health</i>
9:15 AM	<b>Can You Really Kill ALL of the Breeder Pullets With Mismanagement?: A Case of Hyperbole and Drastic Mortality</b> Seiche Genger, <i>Hy-Line International</i>	<b>Good Coccidia Control in Commercial Turkeys via ASTs</b> Steve Fitz-Coy, <i>Merck AH</i>
9:30 AM	<b>Case Report: An Atypical Mycoplasma gallisepticum Case in Commercial Layers: Serological and Molecular Diagnosis</b> Karen Grogan, <i>UGA PDRC</i>	<b>Using nanopore next generation sequencing technology to analyze genes for identification of Eimeria parasites in poultry.</b> Benjamin Jackwood, <i>UGA</i>
9:45 AM	<b>Suspected Sulfonamide Toxicosis in a Broiler Breeder Flock</b> Richard Fulton, <i>Michigan State University</i>	<b>Lessons Learned Adjusting the Application of Coccidiosis Vaccine in Grandparent Broiler Breeders</b> Christina Lindsey, <i>Aviagen</i>
10:00 AM	<b>Break</b>	
Room		
Topic	Case Reports	Enteric Health
Moderator		
10:15 AM	<b>Pickled Pullets?</b> Jenny Nicholds, <i>University of Georgia</i>	<b>A Precision Glycan Microbiome Metabolic Modulator Redirects Core Metabolic Pathways of the Microbiome Leading to Improved Resilience to Enteric Dysbiosis and Inflammation</b> Tamara Loeffler, <i>DSM</i>
Topic	Wealth of Knowledge	Enteric Health



10: 30 AM	<b>HTSi Review by Feeding Programs</b> Francene Van Sambeek, <i>Elanco Animal Health</i>	<b>Effects of dietary maltol as postbiotics on innate immunity, gut health, and growth performance of broiler chickens infected with Eimeria maxima</b> Inkyung Park, <i>USDA-ARS</i>
10: 45 AM	<b>Review of PathPro® Egg Layer Mortality Necropsy Data Across Multiple Egg Production Operations from 2018-2021</b> Daniel Wilson, <i>Wilson Veterinary Co.</i>	<b>Systematic Review of the Efficacy of Prebiotics and Probiotics in Reducing the Colonization and Shedding of Campylobacter and Salmonella in Broilers and Turkeys</b> Robert Jose Valeris Chacin, <i>University of Minnesota</i>
11:00 AM	<b>Classical Interspecies Transmission of Histomonas meleagridis Causing a Blackhead Outbreak in Turkeys from a Private Farm in Eastern Tennessee.</b> Sawsan Ammar, <i>University of Tennessee</i>	<b>Evaluation of Combination of L. johnsonii, L. reuteri and L. salivarius as a Probiotic Mixture to protect Broiler chickens against Necrotic Enteritis</b> Arzhang Shayeganmehr, <i>University of Saskatchewan</i>
11:15 AM	<b>Yet another case report on Blackhead</b> Jewell Bremer, <i>Select Genetics</i>	<b>Efficacy of intestinal conditioner pronutrients (botanical molecules) on intestinal integrity and serum cytokine levels in broilers fed raw soybean</b> Julia Pie, <i>BIOVET S.A.</i>
<b>Room</b>		
11:30	<b>History Lecture</b>	
12:00	<b>Lunch Break</b>	
<b>Room</b>		
<b>Topic</b>	<b>Virology: IBV</b>	<b>Enteric Health</b>
<b>Moderator</b>		
1:15 PM	<b>Topic Keynote: Understanding Infectious Bronchitis Virus Vaccine Takes Using Real-Time Polymerase Chain Reaction</b> Brian Jordan, <i>The University of Georgia</i>	<b>Increased Incidence of Viral Enteritis in Broiler Chickens in 2020: Isolation and Characterization of Viruses from the Intestinal Samples</b> Milos Markis, <i>AviServe LLC</i>
1:30 PM		<b>Isolation and Characterization of Enteric Viruses in Runting and Stunting Syndrome Outbreak for the Production of Future Autogenous Vaccine</b> Katie Burchfield, <i>University of Georgia- PDRC</i>
1:45 PM	<b>Infectious bronchitis vaccine program comparison against DMV/1639 challenge</b> Kalen Cookson, <i>Zoetis</i>	<b>Managing the gut microbial population in antibiotic-free broiler production</b> Mueez Ahmad, <i>Arm &amp; Hammer</i>
2:00 PM	<b>Protective Efficacy of Infectious Bronchitis (IB) Vaccines Available in Canada Against the Canadian Delmarva (DMV/1639) Infectious Bronchitis Virus (IBV)</b> Mohamed S. H. Hassan, <i>University of Calgary</i>	<b>Analysis of intestinal microbiome of commercial broiler chickens affected with clinical and subclinical necrotic enteritis</b> Hemlata Gautam, <i>University of Saskatchewan, Canada</i>
2:15 PM	<b>Infectious bronchitis DMV-1639 in layer type chickens, a field observation</b> Jim Stockam, <i>Merck Animal Health</i>	<b>Impact of Salmonella Typhimurium vaccination and coccidiosis vaccination on the intestinal health of broiler chickens</b> Andrea Pietruska, <i>Auburn University</i>
2:30 PM	<b>Evaluating the Effects of IBV Vaccination on the Development of False Layer Syndrome</b> Adrea Mueller, <i>University of Georgia</i>	<b>Non-Specific Enteropathy Syndrome in Commercial Turkey Poults</b> Elizabeth Beilke, <i>West Liberty Foods, LLC.</i>
2:45 PM	<b>IBV Strains Associated with False Layer Syndrome: Surveillance in Layer Farms with a History of FLS and IBV Pangenome Studies</b> Ruchita Uttarwar, <i>University of California, Davis</i>	<b>The Sporadic Nature of Intestinal Dilatation Syndrome in Layer Breeders</b> Ian Rubinoff, <i>Hy-Line International</i>

3:00 PM	<b>Break</b>	
<b>Room</b>		
<b>Topic</b>	<b>Virology IBV</b>	<b>Wealth of Knowledge</b>
<b>Moderator</b>		
3:15 PM	<b>ArkDPI Vaccine-Like Viruses in Alabama Chickens</b> Haroldo Toro, <i>Auburn University</i>	<b>Topic Keynote: The Economics of Neoplastic Disease</b> Guillermo Zavala, <i>Avian Health International, LLC</i>
3:30 PM	<b>Evaluation of Serologic Responses to Various GA08 Infectious Bronchitis Virus Vaccination protocols in Commercial Breeder Pullets (Part A)</b> Rachel Thiemann, <i>Mississippi State University Poultry Research and Diagnostic Laboratory</i>	
3:45 PM	<b>Field Observations on Bivalent Infectious Bronchitis Vaccination programs: How do combinations of monovalent IBV vaccines interact?</b> Matilde Alfonso, <i>Ceva Animal Health</i>	<b>Poultry Production and Food Safety: The Never Ending Story: A Review</b> Mohammed Hafez,
4:00 PM	<b>Detection and Control of a Novel DE-072-like Infectious Bronchitis Virus Using the 4/91+Ma5 Protectotype Combination in Layers in Mexico</b> Francisco Rios-Cambre, <i>MSD Salud Animal Mexico</i>	<b>A Practical Multivariate Platform Evaluating Risk Factors Influencing Looseness Events In Young Turkeys</b> Dave Fernandez, <i>FSTAATS Agri-Business Solutions</i>
<b>Topic</b>	<b>Virology: ILT</b>	<b>Wealth of Knowledge</b>
4:15 PM	<b>Dynamics of ILT CEO Vaccination in Commercial Broilers</b> Ellen Lapuck, <i>Boehringer Ingelheim</i>	<b>Trying to Understand Normal, Connecting Seasonality, Bird Performance, Flock Health, and Necropsy Findings</b> Mary Smith, <i>Ancera, LLC</i>
4:30 PM	<b>Transition from CEO LT to HVT vectored ILT vaccines in a multi-age layer complex: Lessons learned</b> Alexandra Mendoza-Reilley, <i>Merck Animal Health</i>	<b>Flooring Type Affects Incidence of Bacterial Chondronecrosis with Osteomyelitis Lameness and Intestinal Integrity in Broiler Chickens</b> Shelby Ramirez, <i>BIOMIN America, Inc.</i>
4:45 PM	<b>Efficacy of recombinant herpesvirus of turkey laryngotracheitis vaccine against Canadian wild-type infectious laryngotracheitis virus infection</b> Catalina Barboza Solis, <i>University of Calgary</i>	<b>Relationship of bursal lesions to other comorbidities in commercial broiler chickens</b> Hailey Quercia, <i>Auburn University College of Veterinary Medicine</i>
5:00 PM	<b>Adjourn</b>	



# Posters

## Antimicrobial

**Antimicrobial Use in Canadian Poultry: Identification of High Users of Antimicrobials and Understanding Reasons for Use**

Agnes Agunos, *Public Health Agency of Canada*

**Comparing Metrics for Quantifying and Reporting Antimicrobial Use in Poultry Production**

Randall Singer, *University of Minnesota*

**Quantifying Antimicrobial Use in Poultry Production**

Randall Singer, *University of Minnesota*

**Anti-clostridial Properties Of Flavonoids Extracted From Specialty Corn**

Vinicius Buiatte de Andrade Alves, *The Pennsylvania State University*

**Bacteriophage (CTC-Bio) ability to reduce Salmonella Enteritidis using an in vitro crop assay**

Avery Duncan, *Southern Poultry Research Group, Inc.*

## Avian Influenza

**Development of high interferon inducing live attenuated influenza vaccines against multiple avian influenza virus subtypes**

Amir Ghorbani, *The Ohio State University*

**Molecular Changes in the Hemagglutinin of North American Lineage H7 Subtype Avian Influenza Viruses in Incursions from Wild Birds into Poultry**

Sungsu Youk, *U.S. National Poultry Research Center, ARS-USDA*

**Monitoring of Antibodies against Avian Influenza Virus in commercial birds from Peru using a competitive ELISA test**

Rosa Gonzalez, *San Marcos University, Lima-peru*

## Bacteriology

**Model Development: Evaluation of three Necrotic Enteritis challenges**

Chuck Hofacre, *Southern Poultry Research Group, Inc.*

**Longitudinal study of extended-spectrum cephalosporin resistance in E. coli isolates along the broiler chicken production chain**

Bai Wei, *Jeonbuk National University*

**Studies on Clostridial Dermatitis-A disease of Economic Concern in Turkey**

Muhammad Nisar, *Cholistan University of Veterinary and Animal Sciences*

**Implementation of a Cellulitis Vaccination Program in Heavy Toms Flocks Using a Clostridium septicum Bacterin/Toxoid**

Andrew Smith, *Butterball*

**Contribution of Heavy Metal Resistance to Avian Pathogenic Escherichia coli**

Catherine Logue, *University of Georgia*

**Serological Evaluation of (siderophore receptor and porin proteins) SRP® Response Under Natural Conditions**

Chris Parmer, *Vaxxinova US*

**Studies on Clostridial Dermatitis-A disease of Economic Concern in Turkeys**

Muhammad Nisar, *Cholistan University of Veterinary and Animal Sciences*

**Evaluation of Candidate Reference Genes in Clostridium perfringens for Gene Expression Normalization**

Mostafa Ghanem, *University of Maryland-College Park*

## Case Reports

**Case report: Evidence of Reemerging of Salmonella Enteritidis Infection in Poultry Layers**

Eliana Icochea, *University of San Marcos*

**A Case Report and Discussion of Infectious Laryngotracheitis in Commercial Layers**

Maral Rahmani, *Abbotsford Veterinary Clinic*

## Coccidiosis

**Performance of a real-time PCR assay for Eimeria sp. of chickens**

James Mills, *Industry*

## Diagnostics

**Molecular detection and characterization of FAdV in Malaysia**

Keat Fu, *Aviagen Inc.*

**Metastatic melanoma of ocular origin in a duck**

Richard Fulton, *Michigan State University*

**Monitoring strategies of new vectored ILT vaccine**

Kristen Roza- Sutherland, *Boehringer Ingelheim Animal Health*

**Fast identification of avian influenza viruses using nanopore sequencing**

Guillaume Croville, *National veterinary college of Toulouse*

**An Immunochromatographic Strip for Antigen Detection of Avian Infectious Bronchitis Virus**

Hui-Wen Chen, *National Taiwan University*

**Monitoring Co-infections in Acute Respiratory Syndromes in Broilers, Tunisia, 2018-2020**

Adam Jbenyeni, *Veterinary School of Toulouse*

**A Comparison of MinION and Flonge Flow Cells for the Rapid Detection and Identification of Avian Influenza A Virus in Clinical Samples**

Iryna Goraichuk, *USDA-ARS-USNPRC-SEPRL*

**Development of antigen-capture ELISA to analyze the immunological functions of chicken interferon-kappa using specific monoclonal antibodies**

Youngsub Lee, *USDA-ARS*

## Enteric Health

**Cimenol ring, botanical molecule, to improve performance, egg quality and to reduce egg contamination in comparison to organic acids and formaldehyde**

Julia Pie, *BIOVET S.A.*

**16S ribosomal RNA sequencing reveals a modulation of intestinal microbiome and immune response by dietary L-theanine supplementation in broiler.**

Dr Saeed, *Cholistan University of Veterinary and Animal Sciences, Bahawalpur-Pakistan*

**Intestinal Morphometrics - is it the right tool to objectively measure intestinal integrity**

Luis Gomez, *Phibro Animal Health*

## Epidemiology

**GIS Tools for Poultry Health Reporting: Development of an Interactive Web Map for BREWS**

Nicki Smith, *Georgia Poultry Laboratory Network*

**Digital Platform for Monitoring and Analyzing the Molecular Epidemiology of Worldwide Infectious Bursal Disease Virus Isolates.**

YUN-TING WANG, *Merck Animal Health*

**Continuous detection of GI-13 lineage Avian Coronavirus strain in poultry flocks from Peru.**

Claudia Carranza, *Ceva Animal Health*

## **Immunology**

**Evaluation Of Infectious Bronchitis (IB) Vaccine Induced Immune Response In Egg Layers: Comparison Of Two Vaccination Strategies**

Sabrina Buharideen, *University of Calgary*

**Synthetic CpG-ODN rapidly enhances antimicrobial functions of immune cells in broiler breeder chickens**

Iresha Subhasinghe, *University of Saskatchewan*

**Immunomodulant effect of in ovo vaccination with herpesvirus of turkey supplemented with toll-like receptor 3 agonist (poly I:C) in meat-type chickens**

Allison Boone, *North Carolina State University, College of Veterinary Medicine and North Carolina Veterinary Diagnostics*

**Unveiling the immunological attributes of chicken tumor necrosis factor- $\alpha$  via the development of specific monoclonal antibodies**

Mingmin Lu, *USDA-ARS*

## **Mycoplasma**

**Ms-H Vaccine (Vaxsafe MS) Protection in Broiler Breeders.**

Francisco Perozo, *Boehringer Ingelheim*

**Mycoplasma gallisepticum (MG) and Mycoplasma synoviae (MS) Multilocus Sequence Typing (MLST) Public Databases: Update and Invitation to Use**

Mostafa Ghanem, *University of Maryland-College Park*

## **Salmonella**

**Feed challenge model for Salmonella Enteritidis colonization**

Chuck Hofacre, *Southern Poultry Research Group, Inc.*

**Immunization with outer membrane vesicles derived from Salmonella enterica serovar Gallinarum induces protective immunity in chickens**

ke shang, *Jeonbuk National University*

**Evaluation of Compatibility of Drinking Water Acidification With Live Salmonella Typhimurium Vaccination in Broilers**

Manuel Da Costa, *Zoetis*

**Case report: Severe Post-vaccinal Reaction induced by the Inactivated Oil Emulsion Vaccine against Salmonella Enteritidis applied Intramuscularly to Broiler Breeders**

Eliana Icochea, *University of San Marcos*

**Salmonella Summary Data: Is it that Simple?**

Doug Waltman, *Georgia Poultry Laboratory Network*

**Epidemiological Findings Related to Monophasic S. typhimurium in Broiler Breeders**

Louise Dufour-Zavala, *GPLN*

**Case report: Evidence of Reemerging of Salmonella Enteritidis Infection in Poultry Layers**

Eliana Icochea, *University of San Marcos*

## **Vaccinology**

**Compatibility Between a Vector rHVT Vaccine Against Highly Pathogenic Avian Influenza H7N3 Virus (rHVT-H7) and a Vector HVT Vaccine Against Velogenic Newcastle Disease Virus (rHVT-F) in Commercial Layers**

Luiz Sesti, *Ceva Animal Health*

**Control of Mexican Highly Pathogenic Avian Influenza (HPAI) H7N3 Virus in Broilers Through the Application of a Vector rHVT-H7 Vaccine Alone or in Combination with a Reverse Genetics-Origin Inactivated Vaccine**  
Luiz Sesti, *Ceva Animal Health*

**Assessment of safety and efficacy of a live attenuated freeze-dried vaccine in effervescent tablets against Newcastle disease in SPF turkeys**  
Francesco Prandini, *Boehringer Ingelheim Animal Health*

**USE OF A NOVEL FLUODOT NANOPARTICLE AS A DELIVERY VEHICLE FOR INFECTIOUS BRONCHITIS VIRUS ANTIGEN**  
Aseno Sakhrie, *Department of Pathobiology and Veterinary Science*

**Field Evaluation of a Novel Immune-Complex Vaccine against IBD for Layers**  
Fernando Lozano, *CEVA ANIMAL HEALTH*

**Generation of hemagglutinin (HA)-expressing infectious bursal disease virus**  
Tsang Long Lin, *Purdue University, CVM*

**Comparative analysis of humoral immune response against killed vaccines containing Newcastle disease virus and or avian influenza virus in commercial broilers**  
Salman Latif Butt, *University of Agriculture Faisalabad*

**Construction, Stability and Efficacy of a Recombinant HVT-IBD-ND Vaccine against IBDV, NDV and MDV Challenges**  
Sing Rong, *Zoetis*

**Duration of Immunity of a Recombinant HVT-IBD-ND Vaccine Against Two Different Strains of Velogenic NDV, and virulent and very virulent IBDV Challenge**  
Sing Rong, *Zoetis*

## **Virology: IBD**

**Ability of an immune-complex IBD vaccine to successfully displace vvIBDV and variant IBDV strains in field conditions**  
Hazem Negm, *Ceva Animal Health*

## **Virology: IBV**

**Nephropathogenicity of Canadian 4/91 Infectious bronchitis virus in Chickens**  
Shahnas Najimudeen, *University of Calgary*

**Protection of Infectious Bronchitis Virus Variants Against THAI QX Strain Challenge**  
Niwat Chansiripornchai, *Faculty of Veterinary Science, Chulalongkorn University*

**The Effect of Water Temperature on Infectious Bronchitis Virus Vaccine Reconstitution**  
Alix Nelson, *PDRC - UGA*

**Increased Mutation Rate in IBV ArkDPI-Derived Vaccines due to Changes in NSP14**  
Ramon Alejandro Zegpi Lagos, *USDA*

**Part B: Evaluation of RT-PCR Takes to Various GA08 Infectious Bronchitis Virus Vaccination Protocols in Commercial Broiler Breeder Pullets**  
Kelli Jones, *Ceva*

**Detection and Control of Malaysian IBV Variant Field Challenge with a 793B 1/96 Vaccine Strain**  
Fernando Lozano, *CEVA ANIMAL HEALTH*

**IBV Surveillance in Broiler Farms of the California Central Valley (2012-2020)**  
Patrick Montine, *University of California Davis*

## **Virology: ILT**

**Avian infectious laryngotracheitis: Innovative serological and molecular assays for diagnosis, vaccination monitoring and diva testing**  
MARINA GAIMARD, *IDvet*

**SEROCONVERSION EFFICACY AND FIELD SAFETY OF A RECOMBINANT FOWPOX VIRUS INFECTIOUS LARYNGOTRACHEITIS RFP LT VACCINE APPLIED AT DAY 1 OF AGE IN COMMERCIAL LAYERS**

JORGE CHACON, *Ceva Animal Health*

**HUMORAL IMMUNE RESPONSE FROM THE REVACCINATION OF A RECOMBINANT FOWPOX VIRUS INFECTIOUS LARYNGOTRACHEITIS VACCINE IN COMMERCIAL LAYERS**

JORGE CHACON, *Ceva Animal Health*

**Infectious laryngotracheitis virus (ILT) surveillance in two-quarantined regions from commercial layers in Brazil**

Helena Lage Ferreira, *University of Sao Paulo*

## **Virology: Miscellaneous**

**Genotyping of Fowl Aviadnaviruses (FAdV) field isolates from Southern U.S. during 2015 to 2021.**

Alejandro Banda, *Mississippi State University*

## **Virology: NDV**

**Network Modeling for Community Spread of Virulent Newcastle Disease Virus**

Alec Michael, *UC Davis*

**Comparative efficacy test of different ND vaccination programs in commercial broilers against a Peruvian velogenic NDV isolate**

Claudia Carranza, *Ceva Animal Health*

## **Virology: Reovirus**

**Reovirus Growth Kinetics in Embryonated Eggs**

Teresa Dormitorio, *Auburn University*

**Field report: variant Reo virus strains in Broilers from Colombia**

Francisco Perozo, *Boehringer Ingelheim*

## **Wealth of Knowledge**

**Physiology and Pathology of Avian Liver.**

MANJUNATHA MAHABALARAO, *Labrotur Research and Consultancy Services, LLC*

**Trends in Mycotoxin Contamination in United States Corn and Corn DDGs**

Chasity Pender, *Biomin America Inc.*

**Supplementation of Bacitracin Methylene Disalicylate or Glucose Oxidase in Broilers Feed on Productive Parameters and Pigmentation**

Josue Sanchez, *excelling SA de CV*

**National Poultry Improvement Plan - A Model Program for the Swine Health Improvement Plan**

Elena Behnke, *USDA APHIS VS NPIP*

**Communication strategies for on-farm sample collection between the researcher and flock personnel**

Kelly Hewitt, *Iowa State University*

**Histopathology of Feather Loss in Female Broiler Breeders**

Monique Franca, *UGA*