<table>
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<tr>
<th>Room</th>
<th>Champions ABCD</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Opening Session</td>
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<tr>
<td>8:15 AM</td>
<td>Keynote Speaker</td>
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<tr>
<td></td>
<td>The Changing Global Landscape of Highly Pathogenic Avian Influenza</td>
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<td>David Swayne</td>
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<tr>
<th>Room</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>Isolation and Characterization of Adenoviruses Associated with Inclusion Body</td>
<td>Unusual Outbreaks of Neoplastic Disease in Broiler Breeders.</td>
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<td>Hepatitis in the United States and Disease Control Through Breeder Vaccination</td>
<td>Silvia Carnaccini, Department of Population Health, College of Veterinary Medicine, University of Georgia</td>
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<td>Milos Markis, AviServe LLC</td>
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<tr>
<td>9:15 AM</td>
<td>Egg Drop Syndrome 76 Transmission in Broiler Chickens</td>
<td>Misdirection! A Case of Iatrogenic Head Tremors in Chicks</td>
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<td>Ramon Zegpi, USDA</td>
<td>Kathryn McCullough, Poultry Diagnostic and Research Center, Population Health Department, University of Georgia</td>
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<tr>
<td>9:30 AM</td>
<td>Double Trouble - Concurrent Egg Drops in Two Flocks of Turkey Breeder Hens</td>
<td>Characterizing Potential Physio Pathological Dynamics of a Woody Breast Myopathy in Modern Meat Broiler Lines</td>
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<td>Jake Carlson, Select Genetics</td>
<td>Pramir Maharjan, Tennessee State University</td>
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<tr>
<td>9:45 AM</td>
<td>Reed Rumsey (Clinical Research) Award Winner</td>
<td>An Emerging Trend: Non-Inflammatory Spinal Cord Degenerative Myelopathy in Turkeys</td>
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<td>Detection, Surveillance and Mechanical Transmission of Egg Drop Syndrome</td>
<td>Jonathan Elissa, Penn State Animal Diagnostic Laboratory</td>
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<td>Ashley Hallowell, Poultry Diagnostic and Research Center, College of Veterinary Medicine, The University of Georgia</td>
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<td>10:00 AM</td>
<td>Break</td>
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<td>10:15 AM</td>
<td>Effect of Marek’s disease CVRM Vaccine on the Enhancement of Spontaneous ALV-like Tumors</td>
<td>Implementing the 5 Domains Welfare Framework into a Poultry Welfare Program</td>
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<td>John Dunn, USDA-Ars</td>
<td>Kate Barger Weathers, Cobb-Vantress</td>
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<td>10:30 AM</td>
<td>Replication of Avian Orthoavulavirus 1 (AOAV-1) and Induction of Innate Immune</td>
<td>A Survey Detailing Perceived Importance of Welfare and the Practical Aspects of Poultry Welfare Measurements on Farm</td>
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<td>Response in TLR3 and MDA5 Knockout Quail (QT-35) and Chicken (DF-1) Cells</td>
<td>Meagan Abraham, Jennie-O Turkey Store</td>
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<td>Chang-Won Lee, Southeast Poultry Research Laboratory, USDA-ARS</td>
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<td>10:45 AM</td>
<td>Comparative Transcriptomic Analysis of Commercial Layer and SPF Chicken Post</td>
<td>Understanding Consumer Perceptions of Animal Welfare</td>
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<td>Infection with a Lentogenic NDV-strain</td>
<td>Danny Weathers, Clemson University</td>
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<td>Jannis Nankemann, Auburn University College of Veterinary Medicine, Department of Pathobiology</td>
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<td>Time</td>
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<td>11:00 AM</td>
<td>Field Evaluation of Two Different Vaccination Protocols for Label Rouge Broilers in France: from the Hatchery to the Processing Plant</td>
<td>Justine Trebault, MSD Santé Animale</td>
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<td>Depopulation of Laying Hen Flocks Using Several CO2 Strategies</td>
<td>Mike Petrik, McKinley Hatchery</td>
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<td>11:15 AM</td>
<td>Antigenic Relatedness of Field Isolates of Avian Reovirus Isolated at the Poultry Diagnostic and Research Center of the University of Georgia</td>
<td>Olatunde Oluwayinka, Poultry Diagnostic and Research Center, Department of Population Health, University of Georgia</td>
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<td>Effects of Lighting on Poultry Welfare</td>
<td>Ian Rubinoff, Hy-Line North America</td>
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<td>11:30 AM</td>
<td>Field Vaccination of Turkey Breeder Candidates with Oral Chicken Reovirus Primer and Injectable Killed Turkey Reovirus</td>
<td>Ben Wileman, Select Genetics</td>
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<td>The Effect of Light Intensity on Grade and Performance in Regular Turkey Hens</td>
<td>Laura Tensa, Cargill</td>
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<td>11:45 AM</td>
<td>Systemic Invasiveness and Pathogenicity of an Avian Reovirus Field Isolate Compared to a Reference Strain Following Oral Inoculation</td>
<td>Zubair Khalid, Department of Pathobiology, Auburn University</td>
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<td>Effects of Mirror and Coloured Balls as Environmental Enrichment Tools on Performance, Welfare and Meat Quality Traits of Commercial Broiler</td>
<td>Muhammad Shahid Zahoor, University Of Veterinary and Animal Sciences Lahore</td>
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<td>12:00 PM</td>
<td>Lunch Break</td>
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<td>Topic AAAP Women’s Network Symposium: The Future of the AAAP…It’s not all about the Science</td>
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<td>1:00 PM</td>
<td>Welcome/Introduction</td>
<td>Andrea Zedek, AWN Chair</td>
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<td>1:10 PM</td>
<td>Bridging Generations in the Workplace</td>
<td>Zahira Gonzalez, Boehringer Ingelheim</td>
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<td>1:55 PM</td>
<td>The Value of Personality Profiles</td>
<td>Gail Stickney, Cobb-Vantress</td>
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<td>2:40 PM</td>
<td>Break</td>
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<tr>
<td>3:00 PM</td>
<td>Unlocking Influence: Leverage Your Brain to Increase Your Impact</td>
<td>Jacqui Stephens, Neuroshift</td>
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<td>4:00 PM</td>
<td>Panel Discussion: Experiences/Trends to Improve Soft Skills and Communication</td>
<td>Jacqui Stephens, Zahira Gonzalez and Gail Stickney</td>
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<td>5:00 PM</td>
<td>Poster Session and Reception</td>
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<td>8:00 AM</td>
<td><strong>Identifying Infectious Bronchitis Virus Vaccines by Vaccine Takes in Commercial Broilers: Not All Vaccines are Created Equal</strong>&lt;br&gt;Brian Jordan, <em>The University of Georgia</em></td>
<td><strong>Environmental Factors Outweigh the Impact of Antibiotic Growth Promoters on Cecal Microbiota Composition of Commercial Broiler Chickens</strong>&lt;br&gt;Martine Boulianne, <em>University of Montreal</em></td>
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<td>8:15 AM</td>
<td><strong>Efficacy of IBVAR206 Vaccine Against Challenge with Infectious Bronchitis Virus Arkansas Strain in SPF Chickens</strong>&lt;br&gt;Dana Goldenberg, <em>Phibro Animal Health Corporation</em></td>
<td><strong>Microbiome Modulation by a Precision Biotic in Broilers Chickens: A Commercial Study Validation</strong>&lt;br&gt;Cristiano Bortoluzzi, <em>DSM Nutritional Products</em></td>
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<td>8:30 AM</td>
<td><strong>Evaluation of Safety and Efficacy of a DMV 1639 Infectious Bronchitis Virus Hyperimmunization Program in Broiler Breeders</strong>&lt;br&gt;Alexandra Hovan, <em>University of Georgia College of Veterinary Medicine</em></td>
<td><strong>Effects of the Phytogenic Feed Additives on the Production Performance of NAE Broilers</strong>&lt;br&gt;Callie McQuain, <em>EW Nutrition</em></td>
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<td>8:45 AM</td>
<td><strong>Evaluation of IBV Protection Against Recent DMV1639 Isolates Using Molecular Techniques and Challenge Studies</strong>&lt;br&gt;Jose Linares, <em>Ceva Animal Health</em></td>
<td><strong>Targeting Gut Neuroimmune Axis to Control Enterobacteriaceae in Chickens</strong>&lt;br&gt;Melha Mellata, <em>Iowa State University</em></td>
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<td>9:00 AM</td>
<td><strong>Protection of Laying Chickens After Heterologous Live Vaccine Priming and Heterologous or Homologous Inactivated Vaccine Boosting Against the Canadian DMV/1639 Infectious Bronchitis Virus Infection</strong>&lt;br&gt;Mohamed Hassan, <em>Faculty of Veterinary Medicine, University of Calgary</em></td>
<td><strong>Induction of Protective Immunity Against Necrotic Enteritis by in Ovo Delivery of Oligodeoxynucleotides Containing CpG Motifs Prior to Vaccination of Broiler Chickens at Hatch with C. perfringens Antigens</strong>&lt;br&gt;Hemlata Gautam, <em>University of Saskatchewan</em></td>
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<td>9:15 AM</td>
<td><strong>Mimicking Maternally Derived Antibodies for Early Protection Against Infectious Bronchitis Virus in Chicks</strong>&lt;br&gt;Rachel Jude, <em>Poultry Medicine Laboratory, School of Veterinary Medicine, University of California, Davis</em></td>
<td><strong>Richard Rimler Award Winner</strong>&lt;br&gt;Focal Duodenal Necrosis: Identification of Potential Pathogens Contributing to the Disease in Layers&lt;br&gt;Yuyang (Jerry) Tsai, <em>Department of Population Health, College of Veterinary Medicine, The University of Georgia</em></td>
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<td>9:30 AM</td>
<td><strong>The Effect of Stabilizers on Live Attenuated Infectious Bronchitis Virus (IBV) Vaccine Under Different Temperature and pH Conditions.</strong>&lt;br&gt;Kim Bouwman, <em>Poultry Diagnostic and Research Center, Department of Population Health, College of Veterinary Medicine, University of Georgia</em></td>
<td><strong>Dose- and Time-Dependent Effects of Campylobacter Jejuni Challenge on Growth Performance and Campylobacter Colonization in Broilers</strong>&lt;br&gt;Hanseo Ko, <em>Department of Poultry Science, University of Georgia</em></td>
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<td>9:45 AM</td>
<td><strong>Development of a Multiplex PCR Combined with Nanopore Sequencing for Identification of IBV Strains in Mixed infections</strong>&lt;br&gt;David Wills, <em>University of Georgia</em></td>
<td><strong>Investigation into Increased Incidence of Gizzard Erosions in the Southeastern United States</strong>&lt;br&gt;Matthew Jones, <em>Southern Poultry Research Group, Inc.</em></td>
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<td>10:00 AM</td>
<td><strong>Break</strong></td>
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<tr>
<td>Time</td>
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<td>Vaccinology</td>
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| 10:15 AM | Protection Efficacy of Bivalent and Trivalent HVT Recombinant Vaccines Against Infectious Laryngotracheitis (ILT) in Broilers Chickens | Daniel Maekawa, Merck Animal Health | Interaction Among Variables Affecting Production Performance  
Dave Fernandez, FSTAATS |
| 10:30 AM | Reed Rumsey (Basic Research) Award Winner Protection Efficacy of Recombinant HVT-ND-ILT and the Live Attenuated Tissue Culture Origin (TCO) Vaccines Against Infectious Laryngotracheitis Virus (ILT) when Administered Individually or in Combination | Roel Becerra, Poultry Diagnostic and Research Center, Department of Population Health, College of Veterinary Medicine, University of Georgia | Outbreak Management of High Pathogenic Avian Influenza in the Most Densely Populated Poultry Production Area in Germany  
Matthias Voss, Lohmann Breeders |
| 10:45 AM | Vaccine Take Evaluation of Two Recombinant Vector HVT Vaccines Applied Simultaneously in Commercial Layers | Jorge Chacon, Veterinary Services - Ceva Animal Health, Brazil | Evaluating the Risk of Moving HPAI-Vaccinated Turkey Breeder Hens to an Egg Production Farm or Other Premises  
Michelle Leonard, University of Minnesota |
| 11:00 AM | Progress in Developing a Vaccine to Prevent/Decrease Colonization of Campylobacter Jejunii in Poultry. | Roy Curtiss, College of Veterinary Medicine, University of Florida | Evaluating the Risk of Moving Uninfected Poultry Industry Product from HPAI Positive Premises to Market  
Rosemary Marusak, University of Minnesota |
| 11:15 AM | Studies Demonstrating the Potential to Enhance Immunity and Improve Overall Efficacy of Live Salmonella Typhimurium (ST) Vaccination by Parenteral Administration | Manuel Da Costa, Zoetis | Detection and Molecular Characterization of Influenza A Viruses Isolated from the Marine Wildlife in the Pacific Islands from Peru  
Juan More-Bayona, Universidad Nacional Mayor de San Marcos |
| 11:30 AM | Efficacy of a Trivalent Coryza Inactivated Vaccine Against Challenges with Wild Type Avibacterium Paragallinarum Serovars A and C | Alexandra Mendoza-Reilley, Merck Animal Health | Monte Carlo Simulations: A Solution for Improved Decision Making in the Poultry Industry  
Joan Torrent, Oligo Basics USA LLC |
| 11:45 AM | Adenoviral Progeny Protection Results | Francene Van Sambeek, Elanco | Broiler Breeder Pullet Salmonella Epidemiology Study: 2017-2020  
Louise Dufour-Zavala, GPLN |
<p>| 12:00 PM | Lunch Break | | |</p>
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<tr>
<th>Time</th>
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<tr>
<td>2:00 PM</td>
<td>Impact of Heat on Blood Chemistry and Heart of Turkeys</td>
<td>Rocio Crespo, North Carolina State University</td>
<td>Use of a Molecular Monitoring Tool for Campylobacter Detection in a US Poultry Integrator</td>
<td>Ana Maria Villegas, Evonik Corporation / Nutrition &amp; Care, Kennesaw</td>
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<tr>
<td>2:15 PM</td>
<td>Practical Considerations for Field Trial Design</td>
<td>Kabel Robbins, Butterball, LLC</td>
<td>Comparing the Virulence Plasmid and Resistance Gene Landscape of Avian Escherichia coli from Differing Sources and Anatomical Sites</td>
<td>Tim Johnson, University of Minnesota</td>
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<td>2:30 PM</td>
<td>Poul Performance Using Different Supplementation Procedures</td>
<td>Nisana Siman-Tov, Hybrid Turkey LLC</td>
<td>Point-of-Care Biosensors for the Detection of Antimicrobial Resistance Genes</td>
<td>Rachel Munds, Krishi Inc.</td>
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<td>2:45 PM</td>
<td>Biosecurity in an Endemic Epornitic</td>
<td>Eric Gonder, Consultant</td>
<td>Assessing the Relationship Between O Serogroups and Virulence Gene Carriage in Georgia Poultry Colibacillosis Cases</td>
<td>Klao Runcharoon, University of Georgia</td>
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<td>3:00 PM</td>
<td>Break</td>
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<td>3:15 PM</td>
<td>Topic: Wealth of Knowledge</td>
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<td>Topic: Bacteriology</td>
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<td>3:30 PM</td>
<td>Development of a National Veterinary Accreditation Module on “The Veterinarian’s Role in Preharvest Food Safety”</td>
<td>Michelle Kromm, Food Forward LLC</td>
<td>Quantification and Characterization of Avian Pathogenic E. coli in Commercial Turkey Toms</td>
<td>Elizabeth Kim, Danisco Animal Nutrition &amp; Health (IFF)</td>
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<tr>
<td>3:45 PM</td>
<td>Impact of a Feed Sanitizer on Broiler Breeder Mortality, Fertile Egg Contamination and Improvement of Chick Quality</td>
<td>Enrique Montiel, Anitox</td>
<td>A Field Investigation of Positive Impact of a Live E.coli Vaccine on Performance of Selected Broiler Farms in BC, Canada</td>
<td>Babak Sanei, Zoetis Canada</td>
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<td>4:00 PM</td>
<td>Utilizing UV Lights in Service Rooms as Part of a Cleaning and Disinfection Protocol in Commercial Turkey Brood Barns</td>
<td>Ashley Poissant, Jennie-O Turkey Store</td>
<td>Contamination of Enterococcus faecalis at the Hatchery and Presentation of Septicemic Disease in Young Broilers</td>
<td>Martha Pulido-Landinez, Mississippi State University</td>
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<td>4:15 PM</td>
<td>Comparison of Two Different Pipelines to Analyze RNAseq Data from Chicken Organs</td>
<td>Ruediger Hauck, Auburn University</td>
<td>Optimization of Avibacterium paragallinarum Isolation Methods</td>
<td>Mariela Srednik, Department of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University</td>
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<tr>
<td>4:30 PM</td>
<td>Investigating Imidacloprid Toxicity in Chicks</td>
<td>Jenny Nicholds, University of Georgia</td>
<td>Necrotic Enteritis Lesions Are Not Always Correlated with the NetB Toxin Status of Clostridium Perfringens Strains</td>
<td>Nicolas Deslauriers, University de Montreal</td>
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<td>4:45 PM</td>
<td>Key Elements to Ensure Effective Prevention and Control of Avian Influenza Outbreaks</td>
<td>Nathaniel Tablante, University of Maryland College Park</td>
<td>CpG-ODN-Induced Immune Cell Metabolism and Antimicrobial Trained Immunity in Chickens</td>
<td>Iresha Subhasinghe, University of Saskatchewan</td>
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<td>5:30 PM</td>
<td>Poultry Professional Networking Event</td>
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<td>Topic</td>
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| 8:00 AM              | The Use of ATP Bioluminescence Technology to Monitor Key Aspects of Your Biosecurity Program  
Jantina De Vylder, BioChek | Detection of Avian Encephalomyelitis Virus in Turkey Poult 
Nicholas Newsome, Purdue University College of Veterinary Medicine/Indiana Animal Disease Diagnostic Lab |
| 8:15 AM              | Ct Values: Facts, Fallacies, and Best Practices for Use in Veterinary Research and Diagnostics  
Scott Callison, Ceva Animal Health | The Impact of a Virulent Strain of Reovirus in a Heavy Tom Turkey Production Company  
Trent Eckle, Farbest Farms Inc. |
| 8:30 AM              | Infectious Laryngotracheitis Virus (ILTV) Genotyping Assay by Multiplex PCR and High Throughput MinION Sequencing  
Yi Chen Luo, Department of Population Health, College of Veterinary Medicine, Poultry Diagnostic & Research Center, University of Georgia | A Case of Rickets in Commercial Poult  
Katie Stumvoll, Jennie-O Turkey Store |
| 8:45 AM              | Dwight Schwartz Travel Scholarship Winner  
Infectious Laryngotracheitis: A New Assay for Characterization from Clinical Samples with Less Genetic Material  
Miranda Painter, Department of Veterinary Diagnostic and Production Animal Medicine Iowa State University | Egg Drop Syndrome Epidemic in Northeast Indiana 2021-2022: A Review of Disease Presentations and Containment/Control Strategies  
John Schleifer, Devenish Nutrition, Inc. |
| 9:00 AM              | Optimizing Protocols for Monitoring a Novel Marek's Disease Vaccine (CVI-LTR)  
William Stanley, Boehringer Ingelheim | Egg Drop Syndrome in Broiler Breeders in the United States  
Sabrina Hurst-Proctor, Gaydos Technical Services, LLC |
| 9:15 AM              | Comparing Aviadenovirus Group Specific and Serotype Specific ELISAs to Virus Neutralization  
Reece Bowers, Poultry Diagnostic and Research Center, Department of Population Health, University of Georgia | Managing an Outbreak of Highly Pathogenic Avian Influenza in a Layer Breeder Flock  
Isa Ehr, Hendrix-Genetics, Hendrix-ISA LLC |
| 9:30 AM              | Nanopore Sequencing: Promises and Perils For Fast Identification and Accurate Characterization of IBV Directly From Clinical Samples  
Amro Hashish, Department of Veterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University | This Better Not Be HPAI...Acute Elevated Mortality in Layer Pullets  
Yuko Sato, Iowa State University |
| 9:45 AM              | Use Infectious Bronchitis Vaccines Takes at 1- and 5-Days Post Vaccination to Evaluate Vaccine Delivery and Vaccine Interactions  
Robert Beckstead, Ceva Animal Health | A Case of Cystic Oviducts and Egg Quality Issues in a Commercial Layer Flock  
Shayne Ramsubeik, California Animal Health and Food Safety(CAHFS) Turlock |
<p>| 10:00 AM             |                                                                                | Break                                                                         |</p>
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<td>History Lecture</td>
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<td>Centenary of the First Infectious laryngotracheitis (ILT) Report in the United States and Ninety Years of Vaccination Control</td>
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<td>Maricarmen Garcia, <em>Poultry Diagnostic and Research Center, University of Georgia</em></td>
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<td>10:45 AM</td>
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<td>Business Meeting</td>
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<td>Lunch Break</td>
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<td>Heritage C</td>
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<td>1:15 PM</td>
<td>Avian Bioscience Travel Scholarship Committee</td>
<td>Small Flocks Committee</td>
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<td>AAAP Foundation Development Committee</td>
<td>Awards Committee</td>
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<td>Preceptorship Committee</td>
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<td>2:00 PM</td>
<td>AAAP Foundation Scholarship Committee</td>
<td>Animal Welfare Committee</td>
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<td>Diseases of Public Health Significance Committee</td>
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<td>3:00 PM</td>
<td>Research Priorities Committee</td>
<td>Respiratory Diseases Committee</td>
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<td>Toxic, Infectious, Miscellaneous &amp; Emerging Diseases Committee</td>
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<td>Food Safety Committee</td>
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<td>4:00 PM</td>
<td>Avian Diseases Manual Editorial Board</td>
<td>Epidemiology Committee</td>
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<td>Therapeutics, Biologics and Bioprotection Committee</td>
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<td>Legislative Advisory Committee</td>
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<td>5:00 PM</td>
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<tr>
<td>Room</td>
<td>Arbor Ballroom</td>
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<tr>
<td>5:30 PM</td>
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<td>Awards Banquet</td>
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<tr>
<td>Time</td>
<td>Champions ABCD</td>
<td>Champions EFGH</td>
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| 8:00 AM | Pre-Harvest Salmonella Monitoring to Develop Risk Profiles for Directed Processing  
Nikki Shariat, *Poultry Diagnostic and Research Center, University of Georgia* | Neurologic Signs in Turkey Poult: A Case of Avian Encephalomyelitis  
Ashley Anderson, *Iowa State University Department of Veterinary Diagnostic and Production Animal Medicine* |
| 8:15 AM | Examination of Salmonella Livingstone and Salmonella Mbandaka Identified in Poultry Supply Chain to Determine the Source of Contamination Using Whole Genome Sequencing  
Kathleen Sary, *Maple Leaf Foods - Canada* | Erysipelas in Broiler Breeders?  
Natalie Armour Manginsay, *Poultry Research and Diagnostic Laboratory, College of Veterinary Medicine, Mississippi State University* |
| 8:30 AM | Salmonella Serotypes and Their Antimicrobial Resistance Profiles Characterizing Chicken Samples from USDA FSIS Regulated Poultry Establishments Based on Their Category Status  
Roxana Sanchez-Ingunza, *RSI Poultry Veterinary Consulting LLC* | A Case of the FluDETECT or Fluke-DETECT?  
Jewell Bremer, *Select Genetics* |
| 8:45 AM | In silico and PCR Screening for Live Attenuated Salmonella Typhimurium Vaccine Isolates  
Maurice Raccoursier, *Poultry Diagnostic and Research Center, Department of Population Health, University of Georgia* | Cecal Core and Necrotic Foci in Turkey Liver: What is Your Diagnosis?  
| 9:00 AM | Effectiveness of a Live Salmonella Typhimurium Vaccine in a S. Infantis Challenge Model in Broilers  
Bill Potter, *Elanco Animal Health* | Emerging Reovirus Infections in Turkeys in Quebec, Canada  
Louise Mercier, *Services Veterinaires Louise Mercier inc* |
| 9:15 AM | The Impact of Salmonella Typhimurium and Coccidiosis Vaccine on the Intestinal Integrity in Broiler Chickens in the Late Stage of Production  
Mark Mouw, *Wilson Veterinary Co.* |
| 9:30 AM | An Evaluation of Two Commercially Available Live Salmonella Vaccines in Turkey Toms  
Molly Parker, *Butterball, LLC* | Lameness in Young Broilers: The Case of the Rocky Chicks  
Peter O'Kane, *Slate Hall Veterinary Services* |
| 9:45 AM | Comparison of Commercial SE Whole Cell Bacterin and SRP Salmonella Vaccines in Chickens: Evaluation of Protection to Homologous and Multiple Heterologous Challenge Strains  
Don Ritter, *Poultry Business Solutions LLC* | Case Study: Rickets in Breeder Pullets  
Alexander Strauch, *Alexander Strauch Consulting* |
<table>
<thead>
<tr>
<th>Topic</th>
<th>Salmonella</th>
<th>Hatchery</th>
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<tr>
<td>Moderator</td>
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<tr>
<td>10:00 AM</td>
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<td>Break</td>
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<tr>
<td>10:15 AM</td>
<td>Effects of Salmonella Enteritidis and Mild Intestinal Inflammation on Broiler Performance and Health&lt;br&gt;Charles Hofacre, Southern Poultry Research Group</td>
<td>Session Keynote&lt;br&gt;The Impact of Current Incubation Conditions on Embryo Temperature Profiles in Multistage and Single Stage Incubation in the US and the Outcomes in Chick Quality&lt;br&gt;Donna Hill, Donna Hill Consulting</td>
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<tr>
<td>10:30 AM</td>
<td>Novel Adjuvant Salmonella Strains to Enhance Food Safety and Animal Health&lt;br&gt;Vinicius Lima, University of Florida</td>
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<tr>
<td>10:45 AM</td>
<td>Pullet Rearing Conditions and Susceptibility to Experimental Salmonella Enteritidis Infection&lt;br&gt;Richard Gast, USDA-ARS-US National Poultry Research Center</td>
<td>Understanding the Recent Increase in Chick Mortality in Commercial Broiler Operations in the USA&lt;br&gt;Matilde Alfonso, Ceva Animal Health</td>
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<tr>
<td>11:00 AM</td>
<td>AMSI, A Plant-Based Biocide, to Reduce Salmonella Infantis Loads in the Gut, and to Improve Performance in Broiler Chickens&lt;br&gt;Felipe Mendy, IFTA USA INC</td>
<td>Updating Hatchery Quality Assurance to Fit Emerging Challenges&lt;br&gt;Isabella Hannay, Donna Hill Consulting</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>Overview of Salmonella Programs within NPIP&lt;br&gt;Katy Burden, USDA NPIP</td>
<td>Histopathology in Chicks of Normal and Short Body Length at Hatch&lt;br&gt;Frederic Hoerr, Veterinary Diagnostic Pathology, LLC</td>
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### Room Champions ABCD

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<thead>
<tr>
<th>Topic</th>
<th>Avian Influenza</th>
<th>Coccidiosis</th>
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<tr>
<td>Moderator</td>
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<tr>
<td>11:30 AM</td>
<td>Wellness Talk</td>
<td>Lunch Break</td>
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### Room Champions EFGH

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<thead>
<tr>
<th>Topic</th>
<th>Avian Influenza</th>
<th>Coccidiosis</th>
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<tbody>
<tr>
<td>1:15 PM</td>
<td>Analysis of Available Vaccines for Highly Pathogenic Avian Influenza in the U.S.&lt;br&gt;David Suarez, Southeast Poultry Research Laboratory</td>
<td>Concepts Concerning Coccidiosis: Host and Strain Specificity, Immunity, and Viable Control Programs&lt;br&gt;Gregory Mathis, Southern Poultry Research, Inc.</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Antigenic Map of the Hemagglutinin of Influenza A Virus of the H9 Subtype&lt;br&gt;C. Joaquin Caceres, Department of Population Health, College of Veterinary Medicine, University of Georgia</td>
<td>3 Years of Field Data of US Broiler Performance Under Different Coccidiosis Control Programs&lt;br&gt;Ha-Jung Roh, Merck Animal Health, Madison, NJ</td>
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<tr>
<td>1:45 PM</td>
<td>Development of a Modified Live Attenuated Influenza Virus Vaccine Against H9N2 for Poultry&lt;br&gt;Flavio Cargnin Faccin, Department of Population Health, College of Veterinary Medicine, University of Georgia</td>
<td>Evaluation of the Effects of Litter Moisture on Cycling of Coccidiosis Vaccine: Part II&lt;br&gt;Nicholas Brown, Huvepharma, Inc.</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Transgenic Approaches for Control of Highly Pathogenic Avian Influenza Virus in Poultry&lt;br&gt;Kelsey Briggs, USDA-ARS-USNPRC</td>
<td>Effects of Different Oocyst Doses of Turkey Coccidia Eimeria meleagrimitis and E. adenoeides on Growth Performance, Intestinal Health, and Bone Quality in Turkeys&lt;br&gt;Doyun Goo, Department of Poultry Science, University of Georgia</td>
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<tr>
<td>Time</td>
<td>Topic</td>
<td>Infectious Bursal Disease</td>
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<td>2:15 PM</td>
<td>Evaluating the Impact of IBDV-Mediated Immunosuppression on the Shedding and Evolution of a Mallard Avian Influenza Virus (AIV) in Chickens</td>
<td>Andrew Broadbent, Department of Animal and Avian Sciences, University of Maryland</td>
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<tr>
<td>2:30 PM</td>
<td>IBD Study Comparing rHVT-IBD Vaccine Protection Against AL2 Virus in Broilers Challenged at 25 Days of Age</td>
<td>Kalen Cookson, Zoetis</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Efficacy Evaluation of Three Infectious Bursal Disease Vaccines by Quantifying the Viral Replication in Bursal Tissues in a Vaccination/Challenge Model</td>
<td>Hugo Ramirez, Poultry Research and Diagnostic Laboratory - Mississippi State University</td>
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<td>3:00 PM</td>
<td>Break</td>
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<tr>
<td>3:15 PM</td>
<td>Evaluation of Protection Against T1-Like Variant Infectious Bursal Disease Viruses Using Dual Recombinant HVT-ND-IBD Vaccine Alone and in Combination with Live Intermediate Strain and 89/03 Strain of IBDV Vaccine</td>
<td>Andres Montoya, Merck Animal Health</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>Amino Acid Sequence and Phylogenetic Analyses of Segments A and B of Recent Infectious Bursal Disease Field Strains in Southern United States.</td>
<td>Alejandro Banda, Poultry Research and Diagnostic Laboratory Mississippi State University</td>
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<tr>
<td>Time</td>
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<td>Infectious Bursal Disease</td>
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<td>3:45 PM</td>
<td>Molecular Characterization of Infectious Bursal Disease Virus (IBDV) Strains Circulating in the Delmarva (DMV) Peninsula from 2019-2023</td>
<td>Sofia Egana-Labrin, Department of Animal and Avian Sciences, University of Maryland</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Introduction of Genogroup-Specific RT-qPCR Methodology for Rapid Biomolecular Typing of IBDV</td>
<td>Martin Liman, AniCon Labor GmbH</td>
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<tr>
<td>4:15 PM</td>
<td>Let’s Talk About IBDV in Layers</td>
<td>Fernando Ruiz-Jimenez, Zoetis</td>
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<td>4:30 PM</td>
<td>Early Infection by Strains of Infectious Bursal Disease Virus Belonging to Genogroup 4 in Commercial Broiler Flocks in Brazil</td>
<td>Jose Emilio Dias, Instituto Federal Catarinense, Concórdia</td>
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<tr>
<td>4:45 PM</td>
<td>Effect of Seroconversion to Infectious Bursal Disease on Physiological and Biochemical Parameters of Broilers</td>
<td>Daniel Venne, Ceva Animal Health</td>
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AAAP Posters

Poster should be placed in the Masters Ballroom on Sunday, June 11, by 12:00 PM and taken down on Wednesday, June 14, by 5:00 PM. Presenters should be present by their poster during the poster session on Sunday, June 11 from 5:00 PM – 6:30 PM.

Antimicrobial

1: Safety of a Fixed Antimicrobial Coating Alone or in Combination with Other Antimicrobials on Commercial Fertile Eggs.
Ivan Alvarado, Merck

2: Equisul-SDT Dose Variance Study in Turkeys
Adam Mueller, Swine Services Unlimited

3: TiaGard (tiamulin) Dose Variance Study in Turkeys
Adam Mueller, Swine Services Unlimited, Inc.

4: Minimum Inhibitory Concentration (MIC) of Mycoplasma spp Isolates Obtained from the South Indian Poultry Production Region
Esther Schonewille, ECO animal health ltd.

Randall Singer, University of Minnesota

Randall Singer, University of Minnesota

7: Antimicrobial Usage in Egg Production in the United States, 2016 – 2021
Randall Singer, University of Minnesota

8: Relationship Between Antimicrobial Use and Resistance in Salmonella, Campylobacter and E. coli from an On-Farm U.S. Broiler Production Monitoring System: 2020-2022
Randall Singer, University of Minnesota

9: On-Farm Monitoring of Antimicrobial Use and Resistance in U.S. Broiler Production: 2020-2022
Randall Singer, University of Minnesota

Avian Influenza

10: Virulent Avian Influenza Virus in Algebra
Naouel Ammali, Université de Blida 1

11: Protective Efficacy of Inactivated Trivalent-H5 Vaccine Against Challenge with Both HPAIV-H5N1 and -H5N8 Viruses in Turkey Poults Under Both Laboratory and Field Conditions
Wael Elfeil, Veterinary Medicine College, Suez Canal University
12: Assessment of Inactivated Avian Influenza H5N8 Vaccines with Different Adjuvants
Wael Elfeil, Avian and Rabbit Medicine Department, Faculty of Veterinary Medicine, Suez Canal University

13: Efficacy of Inactivated Multivalent AIV-H5 Vaccine Against Highly Pathogenic Avian Influenza Clade 2.3.4.4 Subtype H5N8 And H5N6
Wael Elfeil, MEVAC for Vaccines

14: Feather Tropism of H5 Highly Pathogenic Avian Influenza Viruses in Naturally and Experimentally Infected Domestic Waterfowl
Nicolas Gaide, IHAP, Université de Toulouse, Ecole Nationale Vétérinaire de Toulouse (ENVT), National Research Institute for Agriculture Food and Environment (INRAE)

15: Highly Pathogenic Avian Influenza Outbreak, What to Expect
Rodrigo Gallardo, University of California, Davis

16: Active Surveillance of Avian Influenza A Virus in Wild Birds from Poultry Feed Mills and Water Bodies from the Peruvian Coast
Rosa Gonzalez, Universidad Nacional Mayor de San Marcos

17: Starling Movements: Connectivity at the Human-Wildlife Interface
Ursula Hofle, SaBio (Health and Biotechnology) Research Group, National Game and Wildlife Research Institute IREC (CSIC-UCLM), Ciudad Real, Spain

18: Genome Characterization of Influenza A Virus from Clinical Cases of Domestic Birds Received at the Faculty of Veterinary Medicine in the Universidad Nacional Mayor de San Marcos, Peru
Maria Eliana Icochea Darrigo, Universidad Nacional Mayor de San Marcos

19: Serological Cross Reactivity from Experimentally Vaccinated Birds Against the Clade 2.3.4.4b Highly Pathogenic Avian Influenza Virus
Darrell Kapczynski, USDA-ARS-USNPRC

20: Nanopore Sequencing as a Rapid Tool for Identification and Pathotyping of Avian Influenza Viruses
Paul Kotturi, Oxford Nanopore Technologies

21: Characterization of Immune Escape Mutants of H7 LPAIV Selected by Homologous and Heterologous Sera.
Jiho Lee, Exotic and Emerging Avian Viral Diseases Research Unit, Southeast Poultry Research Laboratory, U.S. National Poultry Research Center, Agricultural Research Service, USDA

22: Blue-Winged Teals in Guatemala and Their Potential Role in the Ecology of H14 Subtype Influenza A Viruses
Lucia Ortiz, University of Georgia

23: Mary Pantin-Jackwood, Southeast Poultry Research Laboratory U.S. National Poultry Research Center U.S. Dept. of Agriculture, Agricultural Research Service

24: Mapping HPAI: An Illustration of the 2022 Outbreak in the United States
Nicki Smith, Georgia Poultry Laboratory Network
25: The Pathogenesis of US H5 HPAIV in Mallard Ducks
Erica Spackman, SEPRL, USDA-ARS

26: A Field Perspective on the Impact of Low Pathogenic Avian Influenza Virus on Turkey Breeders and Vaccine Approaches
Marissa Studniski, Select Genetics

Bacteriology

27: Deconstruction of a Multi-strain Bacillus-Based Probiotic Used for Poultry: an in Vitro Assessment of its Individual Components Against C. perfringens
Vinicius Buiatte, The Pennsylvania State University, Department of Animal Science

28: Core Genome Multilocus Sequence Typing (cgMLST) for Poultry Bacterial Pathogens Typing: The Future is Now
Mohamed El-Gazzar, Iowa State University

29: Using qPCR as a Genotyping Method for Infectious Coryza
Rodrigo Gallardo, University of California, School of Veterinary Medicine

30: Bacterial Diversity and Characterization of Staphylococcus xylosus Isolated from Layer Chicken Barn Bioaerosols in Alberta, Canada
Awais Ghaffar, Faculty of Veterinary Medicine, University of Calgary

31: Antimicrobial Susceptibility Profile and Genetic Characterization of Ornithobacterium rhinotraceale Isolates from Commercial Poultry in the United States
Mostafa Ghanem, University of Maryland-College Park

32: A New Solution for Managing Fowl Cholera
Jeremy Griffel, Phibro Animal Health

33: Extracellular Membrane Vesicles from Clostridium perfringens as a Vaccine Strategy Against Necrotic Enteritis
Laura Alejandra Guerrero Tinjaca, Poultry research scientist at Faculté de Médecine vétérinaire, Université de Montréal

34: Diagnostic Approach for Identifying Avian Pathogenic E. coli (APEC) based on Molecular Serology and Virulence Characterization from the State of Georgia Isolates.
Muhammad Haque, university of georgia

35: Complete Genome Sequences of Two Non-typical Avibacterium Paragallinarum Strains Isolated from Clinically Normal Chicken Flocks
Amro Hashish, Department of Veterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University

36: Genome Comparison of Campylobacter Hepaticus Isolated in Georgia, USA
Julia Ienes-Lima, Department of Population Health, University of Georgia
37: Divergent Chicken Genetics Correlate with Shifts in Cecal Associated Antimicrobial Resistance Transfer Ex Vivo
Logan Ott, Interdepartmental Microbiology Graduate Program, Iowa State University, Ames IA

38: The Isolation of Salmonella and the Corresponding Serotypes from Poultry
Doug Waltman, Georgia Poultry Laboratory Network

Case Report

Ahmed Achhal, Clinique vétérinaire Tit Mellil

40: The Devil is in the Details: How to Effectively Reduce Turkey Respiratory Disease through Grower Communication Strategies and On-Farm Management
Elizabeth Beilke, West Liberty Foods, LLC.

41: Reproductive Disorders in Captive Houbara Bustards
Manuela Crispo, IHAP, Université de Toulouse, Ecole Nationale Vétérinaire de Toulouse (ENVT), National Research Institute for Agriculture Food and Environment (INRAE)

42: Budgerigar (Melopsittacus undulatus) Ventricleitis Associated with Millet
Richard Fulton, Michigan State University

43: Clostridial Infection of the Proventriculus and Ventriculus in Broiler Breeder Pullets
Thomas Gaydos, Gaydos Technical Services, LLC

44: The Salt Was Normal
Seiche Genger, Elanco Animal Health

45: Multiple Cases of Turkey Breeder Flocks with Unusual Drops in Egg Production
Elise Gerken, Cooper Farms

46: Infections Involved in Respiratory Diseases in Broiler at Different Ages
Priscila Lopes, Vaxxinova Brasil

47: Riboflavin Deficiency in Multiple Ontario Broiler Flocks
Emily Martin, Animal Health Laboratory, University of Guelph

48: Riemerella Anatipestifer Associated to Polyserositis in Caged Laying Hens : A Case Report.
Mouahid Mohamed, Cabinet Vétérinaire MOUAHID

49: Misapplied Insecticide: Why Chemicals and Eyes Do Not Mix
Emily Pittman, Georgia Poultry Laboratory Network

50: Case Study of Avian Nephritis in UK Broiler Flocks
Christopher Poulos, Animal and Plant Health Agency (Lasswade)
51: Managing Two Canadian Broiler Breeder Flocks with Histomoniasis Diagnosed at the Onset of Lay: Review of their Clinical Symptoms and Intervention Strategies
Kathleen Sary, Maple Leaf Foods - Canada

52: Clinical Experiences with Treating Inclusion Body Hepatitis
Marie Severyn, Corporate Veterinarian, Amick Farms, LLC

53: The Importance of Compliance – A Case Study of Multiple Blackhead Flocks On A WI Farm
Jolene Touville, Jennie-O Turkey Store

54: Case Study: Turkey Cellulitis Control
Brian Wooming, Cargill

Diagnostics

55: Validation of Pooled Samples in BHI for Mycoplasma Testing
Len Chappell, GPLN Special Projects

56: The Importance of Day Old Chicks Detection for Salmonella spp. with Rapid On-Site PCR Test, A Case Study in Taiwan
Keat Fu, Aviagen Inc.

57: Using On-Site PCR for Epidemiological Investigation of Salmonella Spp. in Taiwanese Broiler Farm
Keat Fu, Aviagen Inc.

58: Unfit Birds: Samples Unsuitable for Testing in the Necropsy Department
Adriana Guzman, Georgia Poultry Laboratory Network

59: Development of an Enzyme Linked Immunosorbent Assay for Detection of Enterococcus Cecorum in Chickens
Roxanne Lopardo, AVS Bio

60: Turkey Enteric Rotavirus PCR Test Lacks Correlation with Clinical Enteritis
Duane Murphy, Farbest Farms, Inc.

61: 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 México

Enteric Health

62: Evaluating the Efficacy of Dietary Bacitracin Methylene Disalicylate and Sodium Butyrate on Intestinal Physiology of Broilers During a Subclinical Necrotic Enteritis Challenge
Shailes Bhattrai, University of Georgia
63: Weight Gain in Commercial Broiler Chickens is Correlated to Lachnospiraceae Abundance and Bacterial Species Diversity in the Cecal microbiota
Martine Boulianne, University of Montreal

64: Feed Passage From a Field Perspective
Timothy Cummings, Zoetis

65: Comparison of the Effects Obtained from Eubiotics and Antibiotics Programs Used In-Feed in Different Real-Life Scenarios with a Moderate Environmental Challenge in Coccidia-Vaccinated Broilers
Luis Gomez, Phibro Animal Health Corporation

66: Intestinal Histopathology Related to Fecal Parameters in Broiler Chickens
Frederic Hoerr, Veterinary Diagnostic Pathology, LLC

67: Effect of Quillaja and Yucca Saponins and Polyphenol Combination on Broiler Performance, Health and Welfare and Potential to Reduce the Use of Antibiotics
Charles Siregar, Phibro Corporation Ltd

68: Effect of a Quillaja-Yucca Combination When Fed at Different Age Duration on Broiler Chicken Fecal Salmonella Shedding, Live Performance, and Breast Yield When Reared in a Typical Poultry Industry Disease Challenge Model
Blair Telg, Phibro Animal Health

69: Effect of the Addition of a Concentrated Combination of Quillaja and Yucca Biomass on Production Parameters, Intestinal Morphometrics and Skin Pigmentation of Broilers.
Juan Valladares, Phibro Animal Health Corporation

Infectious Bronchitis Virus

70: Comparative Pathogenesis of California 1737/04 (CA1737/04) and Massachusetts (Mass) Infectious Bronchitis Virus Infections in Laying Hens
Ahmed Ali, Faculty of Veterinary Medicine, University of Calgary

71: Serologic and Zootechnical Monitoring of Two Broiler Breeder Flocks Vaccinated with Multivalent Inactivated Vaccines Containing MASS and IBV Variant Antigenic Fractions
Claudia Carranza, Ceva Animal Health - Peru

72: Economic Impact Reduction from IBV Q1 Variant Infection in Layers Using a Multivalent Inactivated Vaccine with Mass and QX Antigenic Fractions
Claudia Carranza, Ceva Animal Health - Peru

73: Effects of Mixing of Commercial Probiotic Products with Infectious Bronchitis Vaccine Solution
Jorge Chacon, Veterinary Services - Ceva Animal Health, Brazil

74: Pathogenicity of Infectious Bronchitis Virus Massachusetts and Delmarva (DMV) 1639 Strains: A Comparative Study
Muhammad Farooq, University of Calgary
75: Prevalence of Infectious Bronchitis Virus (IBV) in Broilers During 2021 and 2022 in Paraná – Brazil
Edmilson Freitas, Vaxxinova

76: Revaccination of Broiler Chickens in the Field in a Region with High Infection Pressure by GI 23 Genotype.
Edmilson Freitas, Vaxxinova

77: Protective Efficacy of Live Attenuated QX Type Infectious Bronchitis Virus Vaccine Against Variant QX Type IBV Circulating in South Korea
Gyeong Bin Gwon, Choong Ang Vaccine Laboratories Co., Ltd. Daejeon

78: Analysis of Gel-Pac® as a Diluent for Combined Infectious Bronchitis Virus and Coccidia Vaccine Application via Gel-Drop
Brian Jordan, The University of Georgia

79: Unique Variants of Avian Coronavirus from Backyard Chickens in Kenya
Henry Kariithi, Exotic and Emerging Avian Viral Diseases Research Unit, Southeast Poultry Research Laboratory, USDA-ARS

80: Complete Genome Sequencing of Novel Recombinant Infectious Bronchitis Viruses in Korea
Heesu Lee, Avian Diseases Laboratory, College of Veterinary Medicine, Konkuk University, Seoul, South Korea

81: IBV Molecular Surveillance using Oxford Nanopore MinION Sequencing
Renato Luciano, Biological Institute

82: Genome Variability of Infectious Bronchitis Virus from Mexico: High Diversity and Recurrent Recombination
Ana Marandino, Sección Genética Evolutiva, Departamento de Biología Animal, Instituto de Biología, Facultad de Ciencias, Universidad de la República

83: Review of the Detection of Infectious Bronchitis Virus Strains in Industrial Poultry in Ecuador from 2013 to 2022
Sebastian Mena, Dimune S.A., Ecuador

84: Identification of Infectious Bronchitis Virus Variant Strains in Peruvian Broiler and Layer Farms During the Period 2018-2022
Cesar A. Reyes, MSD AH

85: Genetic Typing of Infection Bronchitis Virus in Mexico in 2021 and 2022
Juan Carlos Valladares de la Cruz, Phibro Animal Health Corporation

**Infectious Bursal Disease**

86: Flow Cytometric Evaluation of Bursal Immune Cell Profiles Post Infectious Bursal Disease Virus Challenge
Julia Blakey, USDA ARS SEPRL
87: Efficacy Evaluation of Commercial Immune-Complex Vaccine Against the Experimental Challenge by Brazilian Very Virulent G11 Strain of Infectious Bursal Disease Virus
Gabrielle Bragaglia, Vaxxinova Brazil

88: Antigenic Cartography Analysis of Chimeric Recombinant IBDV Strains Can Be Used to Identify Hypervariable Region Sequences that Induce Broadly Cross-Neutralizing Antibody Responses Against Diverse Strains
Andrew Broadbent, University of Maryland

89: Comparison of Bursal Lesions in Vaccinated Commercial Broiler Flocks Infected by Three Different Strains of Infectious Bursal Disease Virus
Jose Emilio Dias, Instituto Federal Catarinense, Concórdia

90: Characterization of the Variant A IBDV in Commercial Broilers in Peru
Bruno García, Ceva Peru

91: Full Length Sequence Analysis of Both Genome Segments of Two Infectious Bursal Disease Viruses Isolated from California
Sujit Mohanty, United States Department of Agriculture, Agricultural Research Service, U.S. National Poultry Research Center, Southeast Poultry Research Laboratory

92: Analysis of Field Samples Collected from Farms Under Different Vaccines Programs Against IBDV Between 2015 and 2021 in Argentina
Pablo Sansalone, Phibro Animal Health Company

93: A Rapid and Cost-Effective Amplicon-Based Method for Next-Generation Genome Sequencing of the Infectious Bursal Disease Virus
Claudia Techera, Sección Genética Evolutiva, Instituto de Biología, Facultad de Ciencias, Universidad de la República

94: Genetic Characterization of Argentine Infectious Bursal Disease Virus Strains
Gonzalo Tomas, Sección Genética Evolutiva, Instituto de Biología, Facultad de Ciencias, Universidad de la República

Mycoplasma

95: The Detection of Mycoplasma synoviae in Fecal Matter from Poultry
Michael Rose Davis, University of Georgia

96: Molecular Epidemiologic Analysis of Mycoplasma Synoviae Cases from Alabama
Mohammadreza Ehsan, Thompson Bishop Sparks State Diagnostic Lab

97: A Longitudinal Study of the Mycoplasma Vaccine (MSH and ts-11) Populations and Serological Responses in Two Unchallenged Vaccinated Layer Flocks in Australia
Chris Morrow, Bioproperties
98: Molecular Detection and Characterization of Mixed Mycoplasma gallisepticum and Mycoplasma synoviae Infections on Poultry Farms in Nigeria
Eniope Oluwayinka, Poultry Diagnostic and Research Center, Department of Population Health, College of Veterinary Medicine, University of Georgia

99: Chick Quality in Vaxsafe MS Vaccinated Breeder Flocks
Francisco Perozo, Boehringer Ingelheim

100: Pathology and Antibiotic Sensitivity Associated with Outbreaks of Respiratory Disease in British Game Birds that Include Mycoplasma gallisepticum (2016 to 2019)
Christopher Poulos, Animal and Plant Health Agency (UK)

Newcastle Disease Virus

101: Molecular Studies on Newcastle Disease Virus Isolates in Relation to Field Vaccine Strains in Egypt (2012-2015)
Amal Abdallah, Agriculture Research Center, Animal Health Research Institute, Konkuk University

102: Characterizing miRNA Regulated Pathways That Modulate Avian Orthoavula Virus 1 (AOAV-1) Replication.
Abhijeet Bakre, USDA

103: NDV Vaccination in Backyard Unconventional Poultry Flocks
Rodrigo Gallardo, University of California, Davis

104: Repeated Isolation of Avian Orthoavulavirus Serotype 13 in Ukraine
Iryna Goraichuk, Southeast Poultry Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture

105: Introduction of a Novel Newcastle Inactivated Vaccine (r NDV-LS-HNgVII) Developed by Phibro for the Israeli Poultry Industry. Field Trial Results and Data from Commercial Usage.
Eitan Kin, Phibro Animal Health

106: Newcastle Disease Virus in Brazilian Pigeons
Helena Lage Ferreira, Department of Veterinary Medicine, FZEA- USP, University of Sao Paulo

107: Toll-Like Receptor Ligands Enhance Vaccine Efficacy Against Virulent Newcastle Disease Virus Challenge in Chickens
Chang-Won Lee, Southeast Poultry Research Laboratory, USDA-ARS

108: Monitoring of Serological Response to NDV Vaccination in Commercial Layers Immunized with HVT-Based Vaccines
Cesar A. Reyes, MSD AH

109: Biosurveillance of Newcastle Disease Virus in Multiple Avian Species in Pakistan during 2011-2021
Abdul Wajid, Department of Biotechnology, Balochistan University of Information Technology, Engineering and Management Sciences
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110: Saponin-Rich Plants Mixture Supports Coccidiosis Vaccination Program in Broiler Chickens: A Case Study of Floor Pen Challenge Model
Mohammed el Amine Benarbia, NOR FEED, Beaucouzé

111: The Effects of a High-Flavonoid Corn in Chickens Experimentally Infected with Eimeria Maxima as Part of a Necrotic Enteritis Model
Vinicius Buiatte, The Pennsylvania State University, Department of Animal Science

112: Compromised Bone Homeostasis in Modern Day Broilers Challenged with Bacterial Lipopolysaccharides and Mixed Eimeria Cocktail
Venkata Sesha Reddy Choppa, Department of Poultry Science, University of Georgia

113: Evaluation and Comparison of Performance and Level of Coccidia Immunity of Coccidia Vaccinated Broiler Chickens Fed Various Feed Additives in a Bioshuttle Program
Brandon Doss, Huvepharma Inc.

114: Evaluation of the Development of Resistance Following Continuous Use of Synthetic Anticoccidials
Leslie Johnson, Huvepharma, Inc.

115: Calprotectin (Avian MRP126) as a Fecal Biomarker for Coccidiosis in Broiler Chickens
Mahmoud Mahmoud, The Pennsylvania State University

116: Evaluation of Different Coccidial Control Programs in Broiler Breeder Pullets in a Commercial Production.
Chad Malinak, Phibro Animal Health Corporation

Jaime Ruiz, Poultry Technical Consultant

118: Coccidia Lesion Score and Performance in Broilers Fed a Nicarbazin-Potentiated Ionophore Up to 21 Days Followed by Different Ionophore Classes in Growing and Final Phases in the Presence of a Brazilian Field Coccidia challenge
Patricia Tironi Rocha, Phibro Animal Health Corporation

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119: Chronic Respiratory Syndromes in Captive Houbara Bustards: Clinicopathological Overview and Diagnostic Investigation
Manuela Crispo, IHAP, Université de Toulouse, Ecole Nationale Vétérinaire de Toulouse (ENVT), National Research Institute for Agriculture Food and Environment (INRAE)
120: Necropsy of Back Yard Chickens: A "Wet Lab" on Poultry Oncology  
James Davis, Georgia Poultry Laboratory Network

121: A Retrospective Study on Transmissible Viral Proventriculitis Causing High Condemnation Rates in Argentina  
Carlos Gornatti-Churria, CAHFS Turlock branch, School of Veterinary Medicine, University of California-Davis

122: Validating a Model of Hypocalcemia in Laying Hens  
Mayra Tsoi, Michigan State University

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123: Temporal Salmonella Prevalence and Quantity in Broiler Production  
Emily Cason, University of Georgia

124: Salmonella spp. Isolated from Commercial Game Bird Clinical Cases in Missouri and Kansas: Retrospective Study  
Maria Dashek, University of Missouri - Veterinary Medical Diagnostic Laboratory

125: Salmonella Pullorum and Gallinarum Testing - A Review and Look Forward  
Elana Huong, Hendrix Genetics

126: Using Antibiotic Selection to Improve Salmonella Isolation in Infection Studies  
Vinicius Lima, University of Florida

Manjunatha Mahabalarao, Labrotur Research & Consultancy Services, LLC

128: Efficacy Evaluation of Sx, A Novel GRAS Chemical Mixture, on Reducing the Salmonella enterica Serovar Typhimurium Contamination of Broiler Carcasses in a Wing Wash Model  
Manjunatha Mahabalarao, Labrotur Research & Consultancy Services, LLC

129: An Avian Pathogenic E. coli Vector System for Delivering Heterologous Vaccine Antigens in Poultry  
Roshen Neelawala, Graduate Teaching Assistant, College of Veterinary Medicine, University of Florida

130: Serological Evaluation of (Siderophore Receptor and Porin Proteins) SRP® Response Under Natural Conditions  
Chris Parmer, Vaxxinova

131: Biofilm Formation Capacity by Salmonella spp. from Poultry Farms in Lima-Peru  
Magali Salas, ALFA BIOL

132: Salmonella in Poultry - A Glimpse on the Austrian Approach  
Franz Sommer, Geflügeltierärzte GmbH & Cutler Associates Intl.
133: Salmonella Reduction In Turkeys – Important On Farm Interventions
Jolene Tourville, Jennie-O Turkey Store

Vaccinology

134: Yucca Schidigera and Seaweed Extracts Augment Antibody Response to Newcastle Vaccination and Improve Egg Production and Quality, Blood Constituents, Antioxidant Enzymes, Immunoglobulins in Commercial Laying hens
Ahmed Elbestawy, Department of Poultry and Fish Diseases, Faculty of Veterinary Medicine, Damanhour University

135: Identification of Vaccine Candidates Against Novel Campylobacter Using Phage Display Technology
Chaitanya Gottapu, University of Florida

136: CpG-Oligonucleotide Can Enhance Recombinant Herpes Virus of Turkey-Laryngotracheitis Vaccine-Induced Immune Responses
Ravi Kulkarni, North Carolina State University

137: Statistical Report on Zootechnical Results on the Use of a Recombinant HTV-ND ILT in a Broilers Company in Colombia
Camilo Andres Medina Santos, MSD Animal Health

138: Field Trials of FAdV Inactivated Trivalent Vaccine (4, 8b, 11) in Korean Poultry Farms
Dam-Hee Park, Choong Ang Vaccine Laboratories Co., Ltd.

139: Efficacy Evaluation of Vaccine Programs Containing Live and Inactivated Salmonella Vaccines Against Challenge by Salmonella Gallinarum in Brown Laying Hens
Gustavo Schaefer, Vaxxinova Brazil

140: The Development of a Novel Vector for mRNA Vaccines Against Respiratory Pathogens of Poultry.
Stephen Spatz, US National Poultry Research Center

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141: Serological Profile During the Induced Molting Process in Commercial Layer Flocks
Jorge Chacon, Veterinary Services - Ceva Animal Health, Brazil

142: An IBH Outbreak In Meat-Type Grandparent Stock in Brazil Caused by Fowl Adenovirus Serotype 11
Jorge Chacon, Veterinary Services - Ceva Animal Health, Brazil

143: Pathogenicity in Chicks of Goose Tembusu Virus Isolated in Taiwan
Hui-Wen Chen, Department of Veterinary Medicine, National Taiwan University
144: Whole Genome Sequencing of Avian Metapneumovirus Type B Genomes Directly from Clinical Samples Collected from Chickens in Live Bird Markets using Multiplex Tiling RT-PCR Method
Andrew Yong Cho, Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University

145: Deletion of the Chicken TVA Receptor Abolishes ALV-A Infection in Vitro
Steven Conrad, USDA/SEPRL

146: Detection, Isolation, And Molecular Characterization of Distinct Group of Avian Reovirus from Chicken Flocks
Wael Elfeil, Avian and Rabbit Medicine Department, Faculty of Veterinary Medicine, Suez Canal University

147: Development of an Indirect Enzyme-Linked Immunosorbent Assay for the Diagnostic and Vaccination Monitoring of Fowl Adenovirus Group I
Marina Gaimard, Innovative Diagnostics

148: Field Monitoring of the Mareks Hybrid Vaccine RN1250 Take by Quantitative PCR
Christa Goodell, Boehringer Ingelheim

149: Genomic Surveillance of Avian Paramyxovirus in Wild Birds in South Korea during 2017-2021
Tae-Hyeon Kim, Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University

150: Pathotype Determination of Very Virulent Plus Marek’s Disease Virus with Multiple Nucleotide Changes in Virulence-Related Genes
Taejoong Kim, USDA-ARS-SEPRL

151: Seroprevalence of New Castle (ND) and Avian influenza viruses (H5, H7 and H9) in Commercial Poultry Flocks of Punjab, Pakistan
Arif Mahmood, MSD Animal Health

152: Field report: Variant Reo Virus Strains in Broilers from Colombia
Francisco Perozo, Boehringer Ingelheim

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153: Genetic Characterization of Immune Related ChB6, IAP-1 and IL-15Rα Genes in Native Poonchi Chicken from International Borders of India and Pakistan
Mandeep Singh Azad, SKUAST-Jammu

154: National Poultry Improvement Plan (NPIP) as a Model Program for Other Sectors within APHIS: Swine Health Improvement Plan (SHIP) Administration Moving Beyond the Pilot and the Growth of the Comprehensive Aquaculture Health Program Standards (CAHPS)
Elena Behnke, USDA APHIS NPIP

155: Laying Hens in Saint Kitts: Understanding Basic Demographics, Biosecurity, and Sanitary Status
Stephanie Benedict, Ross University School of veterinary medicine
156: Identification of Optimal Sample Collection Locations for the Detection of Environmental Viral Contamination in Chicken Farms
Yun-Jeong Choi, Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University

157: Supplementation with a Formulated Blend of Essential Oils Elicits an Hormetic Dose Response for Feed Conversion in Commercial Broilers
Melchior de Bruin, Nutreco Exploration, Nutreco

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158: Precision Farming Strategies for Reducing Cage-Free Hens' Pecking and Cannibalism
Lilong Chai, University of Georgia

159: Efficacy of a Stationary Cervical Dislocation Device for Humane Euthanasia of Broiler Breeders
Eliza Ripplinger, North Carolina State University

160: Improvement of Animal Welfare using Enrichment Devices for Poultry in a Research Setting
Laura Rose, Zoetis

161: How Veterinarians Choose Best Animal Welfare Programs
Phil Stayer, Wayne Sanderson Farms

162: Incorporating Animal Welfare Metrics into Cage-Free Layer Systems
Alexander Strauch, Alexander Strauch Consulting (ASC)

163: BALANCE Stress & Dehydration Aid Water Retention and Weight Gain Trial in Turkeys
Grant Weaver, Aurora Pharmaceutical, Inc.