

AAAP Symposium

***Campylobacter* in Poultry, a Worldwide Approach to Diagnosis, and Control.**

**Saturday, July 20, 2013 (7:50AM – 12:00PM)
Room W196AB**

- 7:50 – 8:00 AM** **Introductions & Welcome**
J. Allen Byrd *USDA/ARS, College Station, TX.*
- 8:00 – 8:45 AM** **Why is it Important to Control *Campylobacter* Infections?**
Robert Tauxe, *CDC, Atlanta, GA.*
- 8:45 – 9:15 AM** **Tracking *Campylobacter* Prevalence and Load in the Broiler Production System**
Randy Singer, *Department of Veterinary and Biomedical Sciences, University of Minnesota, St. Paul, MN.*
- 9:15 – 10:00 AM** **Current *Campylobacter* Control in EU and Position of the WHO.**
Jaap Wagenaar, *Utrecht University, The Netherlands.*
- 10:00– 10:15AM** **Break**
- 10:15-10:45 AM** **What's old is again new: Difficulty with culturing for *Campylobacter*.**
Margie Lee, *The University of Georgia, Athens, GA.*
- 10:45 – 11:15 AM** **What is Known about *Campylobacter* Control in the Processing Plant Environment.**
Scott Russell, *The University of Georgia, Athens, GA.*
- 11:15 – 12:00 AM** **How the Incidence of Human Cases of *Campylobacteriosis* in New Zealand was Reduced by 50% - Roles Played by Government, Industry and Academia.**
Nigel P. French, *Massey University, New Zealand.*
- 12:00 PM** **Adjourn**

Room W196A		Room W196B
Topic	Case Reports	Immunology
Moderator	TBD	TBD
8:00 AM	<p>Encephalomyelitis in 11-week-old, Brown Layer Chickens, Vaccine Induced? C. Gabriel Senties-cué, Bruce R. Charlton, Rodrigo Gallardo, Arthur A. Bickford, and Peter Woolcock, <i>California Animal Health & Food Safety Laboratory System, Turlock-Branch, School of Veterinary Medicine, University of California, Davis, CA.</i></p>	<p>Analysis of Immunostimulatory Cytokine Gene Expression in Chicken Embryos following Administration of Oligodeoxynucleotides Containing CpG Motifs (CpG-ODN) using a Multiplex Assay. Thushari A. Gunawardana, Shelly Popowich, Betty Chow-Lockerbie, Marianna Foldvari, Marina V. Ivanova, Suresh Tikoo, Shanika N. Kurukulasuriya, Philip Willson, and Susantha Gomis, <i>University of Saskatchewan, Saskatoon, Saskatchewan, Canada.</i></p>
8:15 AM	<p>Post-vaccinal Reovirus Hepatitis in Breeder Chicks. Martine Boulianne and Sonia Chénier, <i>Faculté de Médecine Vétérinaire, Université de Montréal, St-Hyacinthe, Québec, Canada.</i></p>	<p>A Single Dose of a CD40-Targeted Immunogen Delivered at Various Mucosal Induction Sites Results in Antigen-Specific sIgA Production in the Chicken. Wen-Ko Chou, Chang-Hsin Chen, Daad Abi-Ghanem, Jungwoo Park, Lisa R. Bielke, Billy M. Hargis, and Luc R. Berghman, <i>Department of Poultry Science, Texas A&M University, College Station, TX.</i></p>
8:30 AM	<p>High Early Mortality in Breeder Pullets. Kurt N. Dobson, <i>Simmons Foods, Decatur, AR.</i></p>	<p>Induction of Antiviral Innate Immune Responses using Lipopolysaccharide in Chickens. Siamak Haddadi, Amber Kameka, Dae-sun Kim, Markus Czub, Mohamed F. Abdul-Careem, <i>University of Calgary Faculty of Veterinary Medicine, Calgary, AB, Canada.</i></p>
8:45 AM	<p>Aspergillosis and High Mortality in a Broiler Breeder Flock. Alexandra Mendoza-Reilly, Mark A. Burlison, Blayne M. Mozisek, and Charles Hofacre, <i>Ceva Animal Health, Lenexa, KS.</i></p>	<p>Innate and Adaptive Immunity in B Haplotype Defined Chicks with Greater Clinical Resistance to Infectious Bronchitis Virus. Ellen Collisson, Yvonne Drechsler, Ghida Banat, Lisa Griggs, Suzana Tkalcic, W. E. Briles, Calvin Keefer, and Maisie Dawes, <i>Western University of Health Sciences College of Veterinary Medicine, Pomona, CA.</i></p>
9:00 AM	<p>Effect of Calcium Toxicity on Broiler Breeder Pullets. Erin G. Riley, Phillip A. Stayer, Armando Mirande, Nick M. Dorko, Jose J. Bruzual, <i>Sanderson Farms Inc., Laurel, MS.</i></p>	<p>Effect of Low Calcium and Different levels of 1,25(OH)2D3 Diets on mRNA Expression of Toll-like Receptors, Cytokines and Chemokine in Broilers Chickens. Juan C. Rodriguez-Lecompte, Harold Echeverry, Alexander Yitbarek, Elvis Matini, Peris Munyaka, Woo K. Kim, <i>Department of Animal Science, University of Manitoba, Winnipeg, Manitoba, Canada.</i></p>
9:15 AM	<p>An Unusual Presentation of Nutritional Secondary Hyperparathyroidism In a Flock of White Pekin Ducks. Colette L. Wheler, Chris Wojnarowicz, <i>Dept of Veterinary Pathology, WCVM, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.</i></p>	<p>Supplementation of Vitamin D Isoforms at Different Levels on Innate Immune System mRNA Levels in Laying Hens. Alexander Yitbarek, Harold Echeverry, Elvis Matini, Woo-Kyun Kim, and Juan Carlos Rodriguez-Lecompte, <i>University of Manitoba, Winnipeg, Canada.</i></p>
9:30 AM	<p>Hepatic Necrosis as a Cause of Sudden Increased Mortality in Breeder Replacement Turkeys H. L. Shivaprasad and R. P. Chin, <i>California Animal Health and Food Safety Laboratory System, Tulare, University of California, Davis, CA.</i></p>	<p>Question and Answers</p>
9:45 AM	Break	
Topic	Case Reports (continued)	Immunology/ ALV/Pox
	TBD	TBD
10:00 AM	<p>An Outbreak of Chlamydiosis in Turkeys with Unusual Clinical Signs and Pathology H. L. Shivaprasad, Silvia Carnaccini, M. Bland, R. Moeller, P. Blanchard and K. Laroucau, <i>California Animal Health and Food Safety Laboratory System, Tulare, University of California, Davis, CA.</i></p>	<p>Immune Response of Chicken B cells to Yeast-derived Products Treated with Lytic Enzyme. Harold Echeverry, Alexander Yitbarek, Bogdan Slominski, Juan C. Rodriguez-Lecompte, <i>Department of Animal Science, University of Manitoba, Winnipeg, Manitoba, Canada.</i></p>
10:15 AM	<p>Diagnostic Differentiation of a Trichomoniasis and Histomoniasis Coinfection in a Turkey. Day Mills, Gabriel Senties-Cue, Bruce Charlton, Leslie Woods, <i>California Animal Health And Food Safety Laboratory, Davis, CA.</i></p>	<p>A Natural Outbreak of Avian Leukosis Virus Subgroup J in Commercial Populations of Slow-Growing Rustic Colored Chickens in the United States. Guillermo Zavala, Susan M. Williams, Sunny Cheng and Patricia A. Dunn, <i>The University of Georgia, Athens, GA.</i></p>
10:30AM	<p>Resurgence of Histomoniasis in Small Turkey and Game Bird Flocks in Indiana. Patricia S. Wakenell, Yuko Sato, <i>Purdue University, West Lafayette, IN.</i></p>	<p>Spontaneous Avian Leukosis Virus-Like Lymphomas in Specific-Pathogen-Free Chickens Inoculated with Serotype 2 Marek's Disease Virus. Aly M. Fadly, Weisheng Cao, Richard M. Fulton, Jody K. Mays, <i>USDA-Agricultural Research Service Avian Disease and Oncology Laboratory, East Lansing, MI.</i></p>
10:45 AM	<p>Erysipelas Infection in Ring-Necked Pheasants Previously Exposed to Turkey Adenovirus A. Jocelyn A. Romano, Jennifer Strickland, Michael Martin, H. John Barnes, <i>North Carolina State University, College of Veterinary Medicine, Raleigh, NC.</i></p>	<p>Evaluation of Genetic Differences Among Avianpox Viruses by Nucleotide Sequences Analysis of Specific Genes. Deoki N. Tripathy and Bahaa Fadl-Alla, <i>College of Veterinary Medicine, University of Illinois, Urbana, IL.</i></p>

Sunday, July 21, 2013 (continued)

Room W196A		Room W196B
11:00 AM	Flock Mortality in Chukker Partridges due to Tapeworms (<i>Raillietia</i> sp.). Richard M. Fulton, <i>Michigan State University, Lansing, MI.</i>	Safety and Efficacy of a Combined Avian Encephalomyelitis – Fowl Pox – Pigeon Pox Vaccine Against Virulent AE and Fowl Pox Virus Challenge in Chickens. Girish Sarma, Barry A. Kersting, Sarah Jamison and Gary Spina, <i>Hygieia Biological Laboratories, Woodland, CA</i>
11:15 AM	Question and Answers	
Moderator	John Smith	
11:30 AM	Keynote Speaker: Overview of the Current Economic Situation in the Poultry Industry. Michael Donohue <i>Agri Stats, Inc. Fort Wayne, IN.</i>	Room TBD
12:00 PM	Adjourn for Lunch	
12:30 PM	AAAP Awards Luncheon served at 12:30 PM TBD	
Topic	Coccidiosis	Marek's Disease
Moderator	TBD	TBD
3:00 PM	Revisiting Lesion Scoring Techniques for Coccidiosis. Hector M. Cervantes, <i>Phibro Animal Health, Watkinville, GA.</i>	Expression of Marek's Disease Virus microRNA MDV1-miR-M4 Increases Susceptibility of Young Chicks to <i>Salmonella enteritidis</i>. Robin W. Morgan, Natalie Stevenson, Erin Bernberg, Grace Isaacs, Amy Anderson, and Joan Burnside, <i>University of Delaware, Newark, DE.</i>
3:15 PM	The Influence of Volume on Coccidiosis Vaccine Uptake in the Hatchery. John McCarty, <i>Merial Select, Inc., Gainesville, GA.</i>	Evaluation Of Marek's Disease Virus-Induced Immunosuppression: Effect Of MDV Pathotype. N.M. Faiz, A.L. Cortes, E. Montiel, T. Cimino, M. West, J.S. Guy, O.J. Fletcher, I.M. Gimeno, <i>North Carolina State University, College of Veterinary Medicine, Raleigh, NC.</i>
3:30 PM	Protection against Coccidiosis using Eimeria Oocysts Suspended in Gelatin Beads. Mark Jenkins, Joseph Persyn, Darren Barlow, and Raymond Fetterer, <i>Animal Parasitic Diseases Laboratory, BARC, ARS, USDA, Beltsville, MD.</i>	Role of <i>In ovo</i> vaccination with HVT on the Maturation of the Chicken Immune System. Isabel M. Gimeno, Aneq L. Cortes, Nik M. Faiz, Tarsicio Villalobos, Taylor Barbosa, Arun R. Pandiri, <i>North Carolina State University, College of Veterinary Medicine, Raleigh, NC.</i>
3:45 PM	Impact of Coccidiosis Vaccination Growth Curve on Live Bird Body Composition and Flock Uniformity. Linnea J. Newman, Robert G. Teeter, Stephen W. Davis, <i>Merck Animal Health, North Creek, NY.</i>	Positive Correlation between Replication Rate and Pathotype of Marek's Disease Virus Strains In Maternal Antibody Negative Chickens. John R-Dunn, Kiva A. Auten, Mohammad Heidari, <i>USDA-ARS-ADOL, East Lansing, MI.</i>
4:00 PM	Effect of Lasalocid or Salinomycin on Performance and Immunity following Coccidia Vaccination of Commercial Broilers. Kalen Cookson, Greg Mathis, John Dickson, Mark LaVorgna, Jon Schaeffer and Donald Waldrip, <i>Pfizer Animal Health Global Poultry, Durham, NC.</i>	Immune response elicited by chicken embryos after vaccination at 18 days of embryonation with various Marek's disease vaccines. A.R. Pandiri, A.L. Cortes, I.M. Gimeno, <i>Experimental Pathology Laboratories, Inc., Durham, NC.</i>
4:15 PM	A Recombinant Profilin Subunit Adjuvanted Vaccine against Avian Coccidiosis Confers Protection against <i>Eimeria acervulina</i>, <i>Eimeria tenella</i> and <i>Eimeria maxima</i>. Juliette Ben Arous, Seung I. Jang, Duk Kyung Kim, Hyun S. Lillehoj, Sung Hyen Lee, Kyung Woo Lee, Laurent Dupuis, Sébastien Deville, <i>SEPPIC, Puteaux, France.</i>	Monitoring Serotype 1 Marek's Disease Vaccine CVI988 Replication in Vaccinated Flocks that are Exposed to Oncogenic Marek's Disease Virus. A. L. Cortes, R. F. Silva, J. Dunn, I. M. Gimeno, <i>Department of Population Health and Pathobiology, College of Veterinary Medicine, North Carolina State University, Raleigh, NC.</i>
4:30 PM	Comparison of the Susceptibility to <i>Eimeria maxima</i> in Different Commercial Lines of Broiler Chickens. Chad M. Malinak, Charles L. Hofacre, Greg Mathis, Roy Berghaus, Elise A. Myers, Yun-Ting Wang, <i>Department of Population Health, Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i>	Role of NK Cells in Vaccine-induced Immunity against Marek's Disease. Mohammad Heidari, Henry Hunt, <i>USDA-ARS, ADOL, East Lansing, MI.</i>
4:45 PM	Incidence of Intestinal Worms in Broiler Breeders in the US. Sara J. Steinlage, T. A. Yazwinski, Chris Tucker, Johnna Bridges, <i>Elanco, Bentonville, AR.</i>	Safety and Efficacy of a Backpassaged rMd5-delta-Meq Vaccine Virus in Chickens. Lucy F. Lee, Mohammad Heidari, and Huanmin Zhang, <i>Avian Disease and Oncology Laboratory, Agricultural Research Service, East Lansing, MI.</i>
5:00 PM	Broiler Breeder and Pullet Intestinal Worm Incidence in Field Postmortems. Francene Van Sambeek, <i>Elanco, Cullman, AL.</i>	Differences on Dose Effect of CVI988 Commercial Vaccines Efficacy against an Early Challenge with a Very Virulent Plus Marek's Disease Virus. Tarsicio Villalobos, Taylor Barbosa, Lucia Cortes, Isabel M. Gimeno, <i>Pfizer Animal Health Global Poultry, Durham, NC.</i>
5:15 PM	Question and Answers	
5:30 PM	Adjourn	

Room W196A		Room W196B
Topic	Infectious Bursal Disease	Salmonella
Moderator	TBD	TBD
8:00 AM	Generation of a Bacterial Artificial Chromosome of CVRM Strain to Express VP2 Gene of Infectious Bursal Disease Virus. Blanca Lupiani, Aijun Sun, Owais Khan and Sanjay M. Reddy, <i>Department of Veterinary Pathobiology, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX.</i>	An Epornitic of <i>Salmonella enteritidis</i> causing Clinical Disease in Commercial Broilers. G Donald Ritter, <i>Mountaire Farms Inc., Millsboro, DE.</i>
8:15 AM	Expression of Infectious Bursal Disease VP2 in Turkey Herpesvirus Vector. Sanjay M. Reddy, Owais Khan, Aijun Sun and Blanca Lupiani, <i>Department of Veterinary Pathobiology, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX.</i>	Salmonella Trends from 2000 through 2012. Doug Waltman, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>
8:30 AM	Virulence of Canadian isolates of "variant" Infectious Bursal Disease Viruses in specific pathogen free chickens and commercial broilers. Shanika Kurukulasuriya, Davor Ojic, Tara Zachar, Shelly Popowich, Thushari Gunawardena, Betty Lockerbie, Suresh Tikoo, Philip Willson and Susantha Gomis, <i>Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.</i>	Evaluation of Salmonella Risk Factors on Broiler Farms in North Carolina. Jesica J. Leonard, Mark A. Burleson, <i>North Carolina State University, Raleigh, NC.</i>
8:45 AM	Characterization of the Immune Response and Immunosuppression in Chickens Challenged with Very Virulent Infectious Bursal Disease Virus Reassortants. Rodrigo A. Gallardo, Daral J. Jackwood, Huajun Zhou, Peter Woolcock, Frederick J. Hoerr, <i>Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis, CA.</i>	Challenge Studies in Vaccinated Commercial Layers to Demonstrate Protection against Salmonella of Food Safety Significance. Carl Heeder, Kalen Cookson, Jon Schaeffer, Ken Macklin, Jeff Rodenberg, John Dickson, <i>Pfizer Animal Health, Watkinsville, GA.</i>
9:00 AM	The Affect of Variant Infectious Bursal Disease Virus on Avian Influenza Virus Vaccine Efficacy. Erica Spackman, Mary J. Pantin-Jackwood, <i>Southeast Poultry Research Laboratory, USDA-ARS, Athens, GA.</i>	Salmonella Status of Pullorum Tube Test Reactor Birds. Brenda Glidewell, Doug Waltman, Louise Dufour-Zavala, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>
9:15 AM	The Use of a Classical ELIS to Detect Antibodies following Vaccination with Recombinant HVT Vectored Vaccines for IBD. Bart van Leerdam, Gwenllyan Slacum, and Barend van Dam, <i>BioChek, Scarborough, ME.</i>	The Chicken and the Egg - A Study of Source Attribution Estimates for Salmonella serotype Enteritidis. Dana Cole, Antonio Vieira, Mike Hoekstra, Patricia Griffin, Weidong Gu, <i>Enteric Diseases Epidemiology Branch, Centers for Disease Control and Prevention, Atlanta, GA.</i>
9:30 AM	Question and Answers	
9:45 AM	Break	
Moderator	John Smith	
10:00 AM	Lasher-Eckroade History Lecture: Pioneers of Avian Medicine: The Life and Times of Dr. Stephen B. Hitchner Dr. Bruce Calnek	Rooms TBD
10:30 AM	AAAP Business Meeting	
12:00 PM	Lunch Break	
Topic	Infectious Bronchitis Virus	Salmonella Continued
Moderator	TBD	TBD
1:00 PM	Re-emergence of GA-07 Variant IBV in Clinical Cases of Flushing. Vijay Durairaj, Erich Linnemann, Vanessa Gauthiersloan, Susan M. Williams, Holly S. Sellers, <i>Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i>	DNable® Technology for Rapid Detection and Evaluation of Salmonella in Pre- and Post- Processing Poultry Samples. Nicholas P. Evans, Lori Settle, Vikrant Dutta, Jennine Cannizzo, Robert D. Evans, and F. W. Pierson, <i>Virginia Tech, Avian Medicine, VA-MD Regional College of Veterinary Medicine, Blacksburg, VA.</i>
1:15 PM	Detection of IBV Vaccine Virus at Seven Days of Age Correlates to Protection Level in Challenged Broilers. Brian J. Jordan, HaJung Roh, Anne Hurley-Bacon, Deborah A. Hilt, John Smith, Mark W. Jackwood, <i>The University of Georgia, Poultry Diagnostic and Research Center, Athens, GA.</i>	Evaluation of a dkgB Linked Intergenic Sequence Ribotyping (ISR) Method for Assigning Serotype to <i>Salmonella enterica</i> Isolated from Poultry Environmental Samples. Bwalya Lungu, Roxana Sanchez-Ingunza, Jean Guard, <i>Aviagen Veterinary Laboratory, Elkmont, AL.</i>

Monday, July 22, 2013 (continued)

Room W196A		Room W196B
1:30PM	<p>Heterotypic Protection to Infectious Bronchitis Virus. Haroldo Toro, Qingzhong Yu, Vicky van Santen, Kellye Joiner, <i>Auburn University, College of Veterinary Medicine, Auburn, AL.</i></p>	<p>Use of Intragenic Sequence Ribotyping (ISR) for Serotyping Salmonella Obtained from Commercial Birds and Poultry Environment in Mississippi and Determination of their Antibiotic Resistance Patterns. M. Pulido, P. Washington, J. Thorton, A. Banda, R. Sanchez-Ingunza, J. Guard, V. Do Nascimento, M. Mauel, <i>Avian Pathology Laboratory, College of Veterinary Medicine, National University of Colombia, Bogota, Colombia.</i></p>
1:45PM	<p>Protection Induced by IBV S1 Gene Expressed from Recombinant Adenovirus. Haroldo Toro, Vicky van Santen, JianFeng Zhang, Kellye Joiner, <i>Auburn University, College of Veterinary Medicine, Auburn, AL.</i></p>	<p>Whole Genome Sequences and Comparative Genotypic and Phenotypic Analysis of Multiple Salmonella enterica serovar Enteritidis Isolates from Poultry and Poultry Environments. John El-Attrache, Melissa Madsen, Sean Brimer, Adrian Bustamante, Eric Siegfried, Ben Abel and Kristi Moore, <i>Ceva Animal Health, Lenexa, KS.</i></p>
2:00 PM	<p>Detection and Differentiation of IBV Vaccine Serotypes Using a Multiplexed Microsphere-Based Assay. Ha-Jung Roh, Deborah A. Hilt, Mark W. Jackwood, <i>Department of Population Health, Poultry Diagnostic and Research Center, University of Georgia, Athens, GA.</i></p>	<p>In-vivo Surgical Model of Campylobacter-Bacteriophage Dynamics in Chicken Caeca and Intestines. Peter M. O'Kane, Phillipa L. Connerton, Nicola Cummings, Ian F. Connerton, <i>Division of Food Sciences, School of Biosciences, University of Nottingham, Loughborough, Leics, UK.</i></p>
2:15 PM	Question and Answers	
2:30 PM	Break	
Topic	NPIP/Laryngotracheitis	Bacteria
Moderator	TBD	TBD
2:45 PM	<p>The National Poultry Improvement Plan Update. C. Stephen Roney, <i>Senior Coordinator, NPIP, Conyers, GA.</i></p>	<p>Virulence Comparison of Hemolytic and Non-Hemolytic Ornithobacterium rhinotracheale Strains Using a Live Turkey Infection Model. Jessica N. Walters, Robert D. Evans, Nammalwar Sriranganathan, Tanya LeRoith, Audrey P. McElroy, Frank W. Pierson, <i>Center for Molecular Medicine and Infectious Diseases, VMRCVM, Blacksburg, VA.</i></p>
3:00 PM	<p>Protective Efficacy of Complete and Fractionated Doses of Recombinant Herpesvirus-Vectored Vaccines Against infectious Laryngotracheitis in Commercial Broilers. Yun-Ting Wang, Victor Palomino, Sunny I-Hsin Cheng, Maricarmen Garcia and Guillermo Zavala, <i>Department of Population Health, Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i></p>	<p>Serotyping, Genotyping and Antimicrobial Susceptibility of Ornithobacterium rhinotracheale from Mexico. E. Soriano-Vargas, E. R. Peña-Vargas, V. Vega-Sánchez, <i>Centro de Investigación y Estudios Avanzados en Salud Animal, Facultad de Medicina Veterinaria y Zootecnia, Universidad Autónoma del Estado de México, Toluca, México.</i></p>
3:15PM	<p>Assessment of FP-LT In Ovo Vaccination Followed by LT CEO Vaccination on Persistence of Clinical Signs and Virus, and Live Performance. Alexandra Reilley, Alecia Godoy, Marshall Putnam, John El-Attrache, George Boggan and Chris Coles, <i>Ceva Animal Health, Lenexa, KS.</i></p>	<p>Ornithobacterium rhinotracheale (ORT) Infections and Related Problems. Hafez Mohamed Hafez, <i>Institute for Poultry Diseases, Faculty of Veterinary Medicine, Free University Berlin, Berlin, Germany.</i></p>
3:30 PM	<p>Experimental Long Term Immunity Against ILTV Induced by Inactivated, Recombinant, and Live Modified Virus Vaccines in Commercial Layers. Victor Palomino, Sunny Cheng, Maricarmen Garcia and Guillermo Zavala, <i>Department Of Population Health, Poultry Diagnostic And Research Center, The University Of Georgia, Athens, GA.</i></p>	<p>Genotyping of Avibacterium paragallinarum Serovar C-1 Isolates from Ecuador and Mexico. Alejandra García-Sánchez, Vladimir Morales-Erasto and Edgardo Soriano-Vargas, <i>Centro De Investigacion Y Estudios Avanzados En Salud Animal, Facultad De Medicina Veterinaria Y Zootecnia, Universidad Autonoma Del Estado De Mexico, Toluca, Mexico.</i></p>
3:45 PM	<p>Adaptation and Attenuation of a Field Strain of ILTV in Primary Liver Cells and in Chicken Embryo Fibroblasts. Victor A. Palomino, Sunny Cheng, Maricarmen Garcia and Guillermo Zavala, <i>Department of Population Health, Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i></p>	<p>Pathogenicity and Cross-Protection studies of Avibacterium paragallinarum Serovar B-1 Isolates. V. Morales-Erasto, P. Fernández-Rosas, E. Negrete-Abascal, F. Salazar-García, P. J. Blackall, E. Soriano-Vargas, <i>Centro De Investigacion Y Estudios Avanzados En Salud Animal, Facultad De Medicina Veterinaria Y Zootecnia, Universidad Autonoma Del Estado De México, Toluca, Mexico.</i></p>
4:00 PM	<p>Rapid Sequencing of a Field Isolate of Infectious Laryngotracheitis Virus. Calvin L. Keeler, Jr., Robyn White, John K. Rosenberger, Cynthia M. Boettger, <i>University of Delaware, Newark, DE.</i></p>	<p>Serological Characterization of Escherichia coli Strains Isolated from Teplacemnt Pulletts with Yolk Sac Infection and Laying Hens with Peritonitis in Mexico. Cecilia Rosario Cortes, Leticia Cruz Lopez, Rigoberto Hernandez Castro, Maria Del Rosario Morales Espinosa, Armando Navarro Ocaña, Jesus Flores Larios, <i>Departamento De Medicina Y Zootecnia De Aves, FMVZ, UNAM,D. F., Mexico.</i></p>
4:15 PM	Question and Answers	
4:30 PM	Wine & Cheese Social Poster Rooms TBA	
5:30 PM	Adjourn	

Room W196A		Room W198B
Topic	Gut Health/ Diagnostics	Mycoplasma
Moderator	TBD	TBD
8:00 AM	<p>Optimization of Carboxy-X-Rhodamine Dye (ROX) Concentration for Real Time RT-PCR and Plus/Minus Assays using TaqMan® Probes Chemistry; Implications on Molecular Diagnostics of Avian Pathogens. Hayet Abbassi, <i>Department of Animal Science and Department of Population Medicine, University of Minnesota, St. Paul, MN.</i></p>	<p>Impact of In-Feed Chlortetracycline on Prevention of Infection and Horizontal Transmission of <i>Mycoplasma synoviae</i>. Elise A. Myers, Naola Ferguson-Noel, Guillermo Zavala, Victoria Laibinis, Ruth Wooten, Vijay Durairaj, Chad M. Malinak, Yun-Ting Wang, <i>Department of Population Health, Poultry Diagnostic and Research Center, University of Georgia, Athens, GA.</i></p>
8:15 AM	<p>Morphometric and Functional Analysis for Assessing Poultry Intestinal Health. Takumu Niino, H. John Barnes, Meghali Nighot, Anthony Bliklager, Michael P. Martin, <i>North Carolina State University, College of Veterinary Medicine, Raleigh, NC.</i></p>	<p>Early Serological Detection of <i>Mycoplasma synoviae</i> in Challenged and Contact Exposed Chickens Using ELISA. Gwenllyan F. Slacum, Bart van Leerdam, and Barend van Dam, <i>BioChek, Scarborough, DE.</i></p>
8:30 AM	<p>In-vitro Antimicrobial Susceptibility of <i>Clostridium perfringens</i> from Broiler Origin. Jaime Ruiz, Hector Cervantes, Sam Christenberry and Ken Bafundo, <i>Poultry Technical Services, North American Region - Phibro Animal Health, McKinney, TX.</i></p>	<p>Development and Standardization of Specific IgA Antibody Based ELISA for the Detection of <i>Mycoplasma synoviae</i> in Chickens. Vijay Durairaj, Victoria Laibinis, Ruth Wooten, Rosetta Minish, Naola Ferguson-Noel, <i>Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i></p>
8:45 AM	<p>Evaluation of the Efficacy of Various Feed Additives on Broiler Chicken Performance Parameters using a Controlled <i>Clostridium perfringens</i> Challenge Model. Blair E. Telg, <i>Elanco Animal Health, Greenfield, IN.</i></p>	<p>Origins and Generation of <i>Mycoplasma gallisepticum</i> Diversity. David H. Ley, Wesley M. Hochachka, André A. Dhondt, Andy P. Dobson, Dana M. Hawley, Irby J. Lovette, <i>Department of Population Health and Pathobiology, College of Veterinary Medicine, NC State University, Raleigh, NC.</i></p>
9:00 AM	<p>Effects of Feeding BMD or Stayfac on the Intestinal Microbiota of Commercial Broilers. Anthony P. Neumann, Stephen W. Davis, Garret Suen, <i>University of Wisconsin, Department of Bacteriology, Madison, WI.</i></p>	<p>Surveillance studies of <i>Mycoplasma gallisepticum</i> in Georgia by Targeted Sequencing. Victoria A. Laibinis and Naola Ferguson-Noel, <i>Department of Population Health, Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i></p>
9:15 AM	<p>A Discussion of the European Food Safety Authority's Process for Evaluation of Zootechnical Feed Additives. Patrick M. Pilkington, <i>Vetagro, Inc., Chicago, IL.</i></p>	<p>Development of a Quadriplex Fluorescent Microsphere Immunoassay (FMIA) for the Detection of Antibody Responses to Influenza A and Newcastle Disease Viruses. Mathieu M. Pinette, Yohannes Berhane, Juan C. Rodriguez-Lecompte, John Pasick, Marsha Leith, Matthew Suderman, <i>Department of Animal Science, University of Manitoba, Winnipeg, Manitoba, Canada.</i></p>
9:30 AM	Question and Answers	
9:45 AM	Break	
Topic	Enteric Diseases	Avian Influenza
Moderator	TBD	TBD
10:00 AM	<p>Age Related Prevalence of Enteric Viruses in Healthy Commercial Turkey Flocks. Olusegun O. Awe, Yehia M. Saif, Chang-Won Lee, <i>Food Animal Health Research Program (FAHRP) -Ohio Agricultural Development Center (OARDC), Ohio State University, Wooster, OH.</i></p>	<p>Low Path AI H5N2 in Mexico: The Price Tag of Avian Influenza's Less Famed Sibling. Armando Mirande, <i>Supervet, Inc., The Woodlands, TX.</i></p>
10:15 AM	<p>Turkey Coronavirus Epidemiology and Diagnostics. Kabel M. Robbins, <i>Butterball, LLC, Ozark, AR.</i></p>	<p>High Pathogenicity Avian Influenza Virus in the Reproductive Tract of Chickens. Mariana Sá e Silva, Daniel R. Rissi, Mary Pantin-Jackwood, David E. Swayne, <i>USDA/ARS/SEPRL, Athens, GA.</i></p>
10:30 AM	<p>A Coronavirus Outbreak in Turkeys in Northwest Arkansas. Brian Wooming, <i>Cargill Turkey Production LLC, Springdale, AR.</i></p>	<p>Attachment of Avian and Mammalian Influenza Viruses to the Respiratory and Reproductive tracts of Layer Turkey Hens. Ahmed A. Ali, Abdul Rauf, Mohamed S. Elaish, Yehia M. Saif, Chang-Won Lee, <i>Food Animal Health Research Program, The Ohio State University, Wooster, OH.</i></p>
10:45 AM	<p>Turkey Coronavirus Outbreak in North Carolina. Becky J. Tilley, Eric Gonder, Sarah Mason, Jennifer Weeks, <i>Butterball, LLC, Goldsboro, NC.</i></p>	<p>Experimental Co-infection of Chickens and Turkeys with Avian Influenza and Newcastle Disease Viruses. Mary Pantin-Jackwood, Patti Miller, Claudio L. Afonso, Erica Spackman, Darrell Kapczynski, Eric Shepherd, Diane Smith, Rami Cha, and David Swayne, <i>Southeast Poultry Research Laboratory, USDA/ARS, Athens, GA.</i></p>

Tuesday, July 23, 2013(continued)

Room W196A		Room W196B
11:00 AM	<p>Molecular Characterization of Turkey Enteric Coronaviruses Circulating in the United States in 2012. J. Michael Day, Eric Gonder, Shannon Jennings, David Rives, Becky Tilley, and Brian Wooming, <i>USDA/ARS/SEPRL Athens, GA.</i></p>	<p>Evaluating the Genetic Diversity of a Wild Bird Origin H5N1 Low Path Avian Influenza Viral Genome After Adaptation to Different Poultry. Brian S. Ladman, Jack Gelb, Jr., Conrad Pope, Erin Brannick, Erica Spackman and Richard Slemmons, <i>Department of Animal And Food Sciences & Avian Biosciences Center, University of Delaware, Newark, DE.</i></p>
11:15 AM	<p>An Avian Coronavirus Associated with Fulminating Disease of Guinea Fowl. Jean-Luc Guérin, Etienne Liais, Guillaume Croville, Maxence Delverdier, Léni Corrand, Quentin Langeois, Mariette Ducatez, <i>Ecole Nationale Veterinaire De Toulouse, France.</i></p>	<p>Emergence of H5N1 High Pathogenicity Avian Influenza Strains in Indonesia that Are Resistant to Vaccines. David E. Swayne, Erica Spackman, Samadhan Jadhao, Risa Indriani, Yuni Yupiana, David L. Suarez, <i>USDA/ARS Southeast Poultry Research Laboratory, Athens, GA.</i></p>
11:30 AM	<p>Isolation of Chicken Astrovirus in Specific Pathogen Free Chicken Embryos. Nunez, L. F. N., Santander-Parra, S. H., Mettifogo, E.; Astolfi-Ferreira, C. S., Ferreira, A. J. P., <i>Avian Pathology Laboratory, Department of Pathology, College of Veterinary Medicine (FMVZ), University of São Paulo, SP Brazil.</i></p>	<p>Antigenic Analysis of Different Sublineages of Avian Influenza H5N1 Viruses Circulating in Egypt. Mahmoud Ibrahim, Abdel-Fattah Eladl, Hesham Sultan, Abdel Satar Arafa, Sahar Abd El Rahman, Kamel Abou El-Azm, Alaa G. Abdel Razik, Yehia M. Saif, Chang-Won Lee, <i>Food Animal Health Research Program, The Ohio State University, Wooster, OH.</i></p>
11:45 AM	Question and Answers	
12:00 PM	Lunch	
Topic	Management	Newcastle Disease
Moderator	TBD	TBD
1:00 PM	<p>Use of Automated Bird Scales to Predict Slaughter Weight and Real Time Decision Making in a Vertically Integrated Commercial Turkey Operation. Eric A. Heskett, Robert D. Evans, Kenneth K. Krueger, <i>Elanco, Greenfield, IN.</i></p>	<p>Experimental Risk Assessment of Recombinant Newcastle Disease Viruses used as Vaccines. Patti J. Miller, Diego G. Diel, Krishna Hamal, Claudio L. Afonso, David L. Suarez, <i>Southeast Poultry Research Laboratory, USDA/ARS, Athens, GA.</i></p>
1:15 PM	<p>Increased Incidence of Pendulous Crops in Commercial Turkeys. David V. Rives, <i>Prestage Farms, Inc., Clinton, NC.</i></p>	<p>Wide-Range of Protection Achieved by Vaccination with a Recombinant HVT-NDV Vaccine against Different Genotypes of Newcastle Disease Virus. Vilmos Palya, Timea Tatar-Kis, Tamás Mató, Balázs Felföldi, Edit Kovács, Yannick Gardin, <i>Scientific Support and Investigation Unit, Ceva-Phylaxia, Ceva Santé Animale, Budapest, Hungary.</i></p>
1:30 PM	<p>A Comparative Assessment of Drop Crop in Commercial Turkeys. Jocelyn A. Romano, Tak Niino, Michael Martin, David Rives, H. John Barnes, <i>North Carolina State University College of Veterinary Medicine, Raleigh, NC.</i></p>	<p>Induction of Local Respiratory Immunity following Vaccination of Chickens with an HVT-NDV-Recombinant. Silke Rautenschlein, Jens-Christian Cors, Rik Koopman, Aris Malo, <i>Clinic for Poultry, University of Veterinary Medicine, Hannover, Germany.</i></p>
1:45 PM	<p>Biochemical Evidence for a "Refeeding Syndrome" in Broiler Breeders at Transfer and its Effect on Mortality and Performance. Daniel Venne, Younès Chorfi, <i>Couvoir Scott Itée, QC, Canada.</i></p>	<p>Virulent Newcastle Disease Virus in Tanzania. David L. Suarez, Peter Msoffe, Gaspar Honoroti, Carol Cardona, and Patti Miller, <i>Southeast Poultry Research Laboratory, Athens, GA.</i></p>
2:00 PM	<p>Comparison of hatchability Performance and Protection against Marek's Disease in Broilers Vaccinated with Two <i>in ovo</i> Vaccination Systems and Two HVT Vaccines. Taylor Barbosa, Christopher Williams, Bryan Cummings, Tarsicio Villalobos, <i>Pfizer Animal Health Global Poultry, Durham, NC.</i></p>	<p>Evaluation of a Turkey Specific Real Time-PCR to Measure Newcastle HVT Vaccine Replication When Applied <i>in-ovo</i> or Subcutaneously. Steven R. Clark, Liz Turpin, Mitchell Fraller, Reggie Navarrete, Taylor Barbosa, <i>Pfizer Animal Health Global Poultry, Durham, NC.</i></p>
2:15 PM	<p>Effect of Laying Hen Housing on Hen Health: Preliminary Findings. Richard M. Fulton, <i>Michigan State University, Lansing, MI.</i></p>	<p>Atypical Turkey Newcastle Disease in the Upper Midwest. Part I: Field Experiences. Andre F. Ziegler, Mary Lea Killian, Darrell Trampel, <i>Minnesota Veterinary Diagnostic Laboratory, College of Veterinary Medicine, University of Minnesota, St. Paul, MN.</i></p>
2:30 PM	<p>Field Observations to Determine if Broiler Foot Pad Lesions Correlate with Gait Scores - A Field Trial Suzanne Young Dougherty, Matt Jackson, Jonathan Atkins, Bobby Land and Ken Opengart, <i>Keystone Foods LLC, Huntsville, AL.</i></p>	<p>Atypical Turkey Newcastle Disease in the Upper Midwest. Part II: Virus Characterization and Vaccinal Protection. Mary Lea Killian, Andre F. Ziegler, Darrell Trampel, Kyoung-Jin Yoon, <i>National Veterinary Services Laboratories, Ames, IA.</i></p>
2:45 PM	Question and Answers	
3:00 PM	Break	

Room W196A		Room W196B
Topic	Reovirus	Misc
Moderator	TBD	TBD
3:15 PM	Reovirus Tenosynovitis and Performance Losses in Broilers. Sam P. Christenberry, Joel L. Cline, Holly Sellers, Mark Burseson, <i>Phibro Animal Health, Cullman, AL.</i>	Effects of Hemorrhagic Enteritus Virus Infection in the development of Clostridial Dermatitis in Turkeys. Anil J. Thachil and Kakambi V. Nagaraja, <i>University of Minnesota, St. Paul, MN.</i>
3:30 PM	Viruses Isolated from Broilers with Joint Problems. Alejandro Banda, Rebecca Mackey, Lifang Yang, Candy Zhang, Obiageli Chukwulobe, Tiffany Tabor, and Floyd Wilson., <i>Poultry Research and Diagnostic Lab Mississippi State University, Pearl, MS.</i>	Clinical Presentation and Pathology of Intestinal Dilatation Syndrome (IDS) in Cage-Free Brown Layer Breeders and Brown Layers. Guillermo Zavala, Susan M. Williams, Fred Hoerr and Darrell W. Trampel, <i>University of Georgia, Athens, GA.</i>
3:45 PM	Clinical Presentation of the Emerging Reovirus Variants in Tukeys and Chickens. Marshall R. Putnam, Alexandra M. Reilley, John K. Rosenberger, Sandra Rosenberger, Milos Markis, <i>Ceva Biomune, Cumming, GA.</i>	Multi-state Disease Survey of Backyard Poultry and Small Commercial Flocks. Jarra F. Jagne, Anne Lichtenwalner, <i>New York State -Animal Health Diagnostic Lab, Cornell University College of Veterinary Medicine, Ithaca, NY.</i>
4:00 PM	Pathogenicity and Control of Recent (2011-2012) Reovirus Isolates from Broiler and Turkey Flocks Presenting with Viral Arthritis and Tenosynovitis. John K. Rosenberger, Sandra C. Rosenberger, Milos Markis and John P. Rosenberger, <i>Aviserve LLC, Newark, DE.</i>	The Disease Triad Revisited: A Brief Anthology of the Role of the Non-infectious Factors in Infectious Poultry Diseases. Daniel A. Bautista, Erin Brannick, Jose Miguel Ruano, Jack Gelb Jr., <i>University of Delaware-Lasher Laboratory, Carvel Research and Education Center, Georgetown, DE.</i>
4:15 PM	Characterization of Recent (2011-2012) Reovirus Isolates from Broiler and Turkey Flocks Presenting with Viral Arthritis and Tenosynovitis Using <i>In Vitro</i> Antibody Dependent Virus Neutralization Assays. Sandra C. Rosenberger, John K. Rosenberger, Milos Markis and John P. Rosenberger, <i>Aviserve LLC, Newark, DE.</i>	What Happened at Peter's Farm? – Part 1: Field Diagnosis. Philip A. Stayer, Erin G. Riley, Danny L. Magee, Ashley Fontenot, Sue Ann Hubbard, Pat A. Welch, Floyd L. Wilson, Brittany Baughman, Samuel Christenberry, Kelli H. Jones, Pat Welch and Armando Mirande, <i>Sanderson Farms, Inc., Laurel, MS.</i>
4:30 PM	Characterization of Outer Capsid Protein Sequences for Viral Arthritis Reovirus Isolates and Relatedness to <i>In Vitro</i> Antibody Neutralization Comparisons and Resistance to Cross Challenge Assessments. Milos Markis, John K. Rosenberger, Sandra C. Rosenberger, Robin W. Morgan and John Elatrache, <i>Aviserve LLC, Newark, DE.</i>	What Happened at Peter's Farm? Part 2: Laboratory Diagnosis. Danny L. Magee, Philip A. Stayer, Erin G. Riley, Sue Ann Hubbard, Kelli H. Jones, Armando Mirande, Floyd L. Wilson, Brittany Baughman, <i>Poultry Research and Diagnostic Laboratory, Mississippi State University, College of Veterinary Medicine, Pearl, MS.</i>
4:45 PM	Diagnostic Report: Isolation and Characterization of Novel Reoviruses from Clinical Cases of Tenosynovitis. Holly S. Sellers, Erich G. Linnemann, Vanessa Gauthiersloan, Tracey Collett, <i>The University of Georgia, Athens, GA.</i>	What Happened at Peter's Farm?: Part 3: Challenge Models. Philip A. Stayer, Erin G. Riley and Pat A. Welch, <i>Sanderson Farms, Inc., Laurel, MS.</i>
5:00 PM	Progress on Characterization of Recent Reovirus Isolates Associated with Runting-Stunting and Tenosynovitis Cases in Georgia. Arun B. Kulkarni, James F. Davis, and Doug A. Anderson, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>	The Use of Poultry Production Expertise to Impact Childhood Malnutrition in Developing Countries. Albert M. Payne, <i>Elanco Animal Health, Greenfield, IN.</i>
5:15 PM	Question and Answers	
5:30 PM	Adjourn	

AAAP Poster Session

Room W196C

Avian Influenza

Development of Universal Flu Vaccine using M2e-P Particle Vaccine in Chicken.

Chang-Won Lee, Ahmed Ali, Olusegun Awe, Ming Xia, Leyi Wang, Ming Tan, Xi Jiang, *Food Animal Health Research Program, Ohio State University, Wooster, OH.*

A Preliminary Survey of Hemoagglutinating Virus in Monk Parakeet (*Myiopsitta Monacha*) from Buenos Aires Province, Argentina.

C. Buscaglia^{A,B,C}, ^A Comisión de Investigaciones Científicas de la Provincia Buenos Aires, Argentina. ^B Club de Observadores de Aves "Divisadero" Partidos de General Madariaga y Pinamar. ^C Fundación Ecológica Pinamar.

Assessment of Commercial ELISA Kits in the Detection of Antibodies to AIV in Chickens Receiving Different AI Vaccination Regimes and Their Potential Use for a DIVA Approach.

Vilmos Palya, Tímea Tátár-Kis, Balázs Felföldi, Fernando Lozano, Yannick Gardin, *Scientific Support and Investigation Unit, Ceva-Phylaxia, Ceva Sante Animale, Budapest, Hungary.*

Outbreak of High Path Avian Influenza in México.

M. Tamayo, R. Lopez, M. A. Casillas, *Pfizer Animal Health, México.*

AIV and NDV Surveillance in Peru: An Update from the 2009 to 2012 Migratory Season.

Rosa Gonzalez, Eliana Icochea, Armando Gonzalez, Bruno Ghersi, Karen Segovia, Evelyn Castro, Giovana Cribilleros, Viviana San Martin, *College of Veterinary School, San Marcos University, Lima-PERU.*

Beta-defensin 2 Enhances Immunogenicity and Protective Efficacy of an Adenovirus-based Highly Pathogenic H5N1 Avian Influenza Vaccine.

Sai V. Vemula, Omar Ahmed Kamel Amen, Jacqueline M. Katz, Ruben Donis, Suryaprakash Sambhara, and Suresh K. Mittal, *Comparative Pathobiology Department, Purdue University, 725 Harrison St. West Lafayette IN.*

Evaluation of Pathogenicity of Low Pathogenic Avian Influenza Viruses (H9N2) with Neuraminidase Stalk Deletion.

In-pil Mo, Eun-ok Jeon, Bon-sang Ku, Hae-lim Lee, Hye-sun Jang, Moo-sung Han, Kyung-chul Min, Jong-nyeo Kim, *College of Veterinary Medicine, Chungbuk National University 48 Gaeshin-dong Heungduk-ku Cheongju Chungbuk.*

Secure Turkey Supply Plan- Issuing Movement Permits During an Outbreak of Highly Pathogenic Avian Influenza.

Darrell W. Trampel, Kevin L. Oetersburg, David D. Schmitt, Stephen R. Goff, and James A. Roth, *Department of Veterinary Diagnostic and Production Animal Medicine, Iowa State University, Ames, IA.*

The Risk of Highly Pathogenic Avian Influenza Transmission Associated with the Movement of Turkey Hatching Eggs.

Sasidhar Malladi, Todd Weaver, Timothy Snider, Jamie Slingluff, Shauna Voss, Timothy Goldsmith and David A. Halvorson, *University of Minnesota, St. Paul, MN.*

Antigenic Analysis of Highly Pathogenic H5N1 Avian Influenza Causing Severe Outbreaks in Vaccinated Chicken Flocks .

Moussa Salah and Omar Amen, *Fac. Vet. Med. Assiut University, Assiut, Egypt.*

Highly Pathogenic Avian Influenza Infection in Pet Birds and Free Living Water Fowls.

Moussa Salah and Omar Amen, *Fac.vet Med., Assiut University, Assiut, Egypt.*

Avian Leukosis Virus

Co-infection of Exogenous and Endogenous Avian Leukosis Virus in Local BR Chickens in China.

Shuhong Sun, Peipei Zhang, and Xiuzhen Wang, *College of Veterinary Medicine, Shandong Agricultural University, Taian, China.*

Bacteria

Trends in Microbiological Chick Quality Results over the Last Decade in Georgia.

Louise Dufour-Zavala, *Georgia Poultry Laboratory Network, Oakwood, GA.*

Cold Brooding/*Escherichia coli* Challenge Model for Runting-Stunting Syndrome (RSS) in Commercial Broiler Chicks.

Geraldine R. Huff, William E. Huff, Nayayan C. Rath and Nicholas B. Anthony, *USDA, Agricultural Research Service, Poultry Science Center, University of Arkansas, Fayetteville, AR.*

Antimicrobial Resistance of *Escherichia Coli* Strains Isolated from Poultry Carcasses.

Adriana Rosalía Sánchez Montes, María del Pilar Castañeda Serrano, Cecilia Rosario Cortés, *Departamento de Medicina y Zootecnia de Aves, FMVZ, UNAM, México.*

Escherichia coli Challenge of Broiler Chicks Differing in Susceptibility to Ascites Syndrome.

William E. Huff, Geraldine R. Huff, Narayan C. Rath, and Nicholas B. Anthony, *USDA, Agricultural Research Service, Poultry Science Center, University of Arkansas, Fayetteville, AR.*

Evaluation of a Reported Multiplex PCR and PCR-RFLP for Serotyping of *Avibacterium paragallinarum*.

V. Morales-Erasto, J. Posadas-Quintana, and E. Soriano-Vargas, *Centro de Investigación y Estudios Avanzados en Salud Animal, Facultad de Medicina Veterinaria y Zootecnia, Universidad Autónoma del Estado de México, Toluca, 50200, México.*

Molecular Characterization of *Escherichia coli* Pathotypes Isolated from Broilers in Peru.

Eliana Icochea, Alfredo Condemarin, Pablo Reyna and Rosa Gonzalez, *College of Veterinary School, San Marcos University, Lima-Perú.*

Case

High Mortality in Breeder Males during First Two Weeks of Life.

Sue Ann Hubbard, Travis A. Cigainero and Danny L. Magee, *Mississippi State University College of Veterinary Medicine Poultry Research and Diagnostic Laboratory, 3137 Hwy 468 W, Pearl, MS.*

Case Study of Necrotic Enteritis in Bobwhite Quail.

Yuko Sato and Patricia S. Wakenell, *Comparative Pathobiology, Animal Disease Diagnostic Laboratory Purdue University, 406 S. University Street, West Lafayette, IN.*

Investigations into Outbreaks of Black Fly Strikes and Subsequent Avian Haemosporidians in Backyard Type Poultry and Other Exposed Avian Species.

Kelli Jones, Nora Johnson, Andrea Varela-Stokes, Whitney Smith Sharon Yang, and Jerome Goddard, *Poultry Research And Diagnostic Laboratory, Mississippi State University, MS.*

Clostridia

Differences among Clostridial isolates from Turkey Clostridial dermatitis.

Kakambi V. Nagaraja and Anil J. Thachil, *University of Minnesota, St. Paul, MN.*

Clostridial Yolk Sac Infections in Broilers Chicks.

James F. Davis, Oscar Fletcher, Douglas Waltman, and Kevin Smith, *Georgia Poultry Laboratory Network, Oakwood, GA.*

Clostridia (continued)

Vaccination with *Clostridium perfringens* Recombinant Proteins in Combination with Montanide™ ISA 71 VG Adjuvant Increases Protection Against Experimental Necrotic Enteritis in Commercial Broiler Chickens

Seung I. Jang, Hyun S. Lillehoj, Sung-Hyen Lee, Kyung Woo Lee, Erik P. Lillehoj, Yeong Ho Hong, Dong-Jun An, Wooseog Jeong, Ji-Eun Chun, Francois Bertrand, Laurent Dupuis, Sébastien Deville, Juliette Ben Arous, *Animal Parasitic Diseases Laboratory, Animal and Natural Resources Institute, Agricultural Research Service-USDA, Beltsville, MD.*

Diagnostics

Laboratory Integration of the Luminex xMAP *Salmonella* Serotyping Assay Kit.

Selena York, Doug Waltman, *Georgia Poultry Laboratory, Oakwood, GA.*

Advantages in the Use of Technology in the Poultry Bacteriology Laboratory.

Kevin W. Smith, *Georgia Poultry Laboratory Network, Oakwood, GA.*

Timeline Analysis of a Laboratory Information Management System (LIMS) Developed for a Poultry Diagnostic Laboratory.

Len Chappell, *Georgia Poultry Laboratory, Oakwood, GA.*

Food Safety

A Chemotaxis Transducer in *Campylobacter jejuni* with a Role in Sensing Essential Nutrients.

Kshipra Chandrashekhar, Byeonghwa Jeon, Gireesh Rajashekara, *Food Animal Health Program, 1680 Madison Avenue, The Ohio State University, OARDC, Wooster, OH.*

Gut Health

Fungal Populations within the Gastrointestinal Tracts of Market-age Broilers.

J. Allen Byrd, *USDA, ARS, SPARC, Food and Feed Safety Research Unit, 2881 F and B Road, College Station, TX.*

Additives Containing Extracts of Plants: A Promising Way in the Stabilization of the Digestive Flora of Broilers.

F. Recoquilly, *Phytosynthese, 63200 Riom, Mozac France.*

Dietary Supplementation of Young Broiler Chickens with Capsicum and Turmeric Oleoresins Increases Resistance to Necrotic Enteritis.

Sung Hyen Lee, Hyun S Lillehoj, Seung Ik Jang, Misun Jeong, Duk Kyung Kim, Erik P. Lillehoj, Yeong H. Hong, and David M. Bravo, *Animal Parasitic Diseases Laboratory, Animal and Natural Resources Institute, USDA-ARS, Beltsville, MD.*

Infectious Bursal Disease

Detection of Antibodies to Infectious Bursal Disease Virus in Captive North American Penguins.

Daral J. Jackwood, Charlie Reynolds, Judy St. Leger, *Food Animal Health Research Program, The Ohio State University/OARDC, Wooster, OH.*

Decision Based Modeling Based on an Analytical Hierarchy Process in Order to Respond to an Outbreak of Very Virulent Infectious Bursal Disease in California.

Maurice Pitesky, Sirithorn Ratanapreukskul, Greg Ramos, Annette Jones, Emi Saito, *California Department of Food and Agriculture, Davis, CA.*

Comparison of pVP2 Antigen ELISAs and Virus-Like-Particle Antigen ELISAs for the Detection of Antibodies to Infectious Bursal Disease Viruses.

Daral J. Jackwood and Daniel Cebul, *Food Animal Health Research Program, The Ohio State University/OARDC, Wooster, Ohio*

Differentially Expressed Bursal Transcriptome in Chickens Protected by DNA Vaccine Against Infectious Bursal Disease.

Ching Ching Wu, Chih-Chun Lee, Tsang Long Lin, *National Taiwan University, 3472 Hamilton St., West Lafayette, IN.*

Molecular Characterization of Infectious Bursal Disease Virus (IBDV) in Argentina.

Ariel Vagnozzi, Federico Vera, Maria Isabel Craig, Valeria Olivera, Florencia Rojas, Guido Konig, Ariel Pereda, *Instituto De Virologia, Inta Castelar, Buenos Aires, Argentina.*

IBV

Development of an Immunohistochemical Assay for Infectious Bronchitis Virus.

Susan M. Williams, Gabriela Beltran, Gwin Kerce, Tory Fabacher, Mark Jackwood, *University of Georgia, Poultry Diagnostic and Research Center, College of Veterinary Medicine, Athens GA.*

Immunology

Development of Intracellular Cytokine Staining Techniques for the Quantification of Avian Cytokines.

Amber Kameka, Siamak Haddadi, Hui Xioa, Mohamed F. Abdul-Careem, *Department of Ecosystem and Public Health, Faculty of Veterinary Medicine, University of Calgary, Calgary, Alberta, Canada.*

Laryngotracheitis

Protective Efficacy of Vectormune HVT-LT Viral Vector Vaccine in Commercial Broilers.

Alecia Godoy, Maricarmen Garcia, Guillermo Zavala and John El-Attrache, *Ceva Biomune Animal Health, Lenexa, KS.*

Understanding the Role of ORF-C Gene in the Pathogenicity of Infectious Laryngotracheitis Virus.

Ying Cheng, Sylva Riblet, Stephen J. Spatz and Maricarmen Garcia, *Poultry Diagnostic and Research Center, Department of Population Health, University of Georgia, Athens, GA.*

Molecular Characterization of Infectious Laryngotracheitis Virus (ILT) in Argentina.

Maria I. Craig, Florencia Rojas, Valeria Olivera, Federico Vera, Ariel Vagnozzi, Ariel Pereda, Guido Konig, *Instituto De Virologia, Centro De Investigaciones En Ciencias Veterinarias Y Agronomicas (cicvya) Inta, Las Cabañas Y De Los Reseros S/n Hurlingham Cp 1712, Buenos Aires, Argentina.*

A Molecular Characterization of the Reversion to Virulence of Infectious Laryngotracheitis Virus.

Cynthia M. Boettger and Calvin L. Keeler Jr., *Department of Animal and Food Sciences, University of Delaware, Newark, DE.*

Management

Correlation of Broiler Condemnation and Production Results with Several Common Variables in Brazil.

Beatriz Cardoso, Elmiro R. Nascimento, Virginia L. A. Pereira, Dayse L. C. Abreu, Wanda M. Meira, *Universidade Federal Fluminense, Niteroi, Brazil.*

Upgrading Biosecurity at Barn Entrance using a Three-Zone Approach.

Jean-Pierre Vaillancourt, Manon Racicot, *University of Montreal, College of Veterinary Medicine, Saint-Hyacinthe, QC, Canada.*

Marek's

Monitoring for Marek's Diseases in Vaccinated Flocks.

Maritza Tamayo, Elizabeth Turpin, *Pfizer Global Poultry, Hidalgo, México.*

Misc

2012 Poultry Health Management School: Continuing Education for the Poultry Health Professional.

Robert E. Porter, Teresa Morishita, Todd Applegate, Darrin Karcher, Richard Fulton, Ralph Stonerock, *Minnesota Veterinary Diagnostic Laboratory, St. Paul, MN.*

Mycoplasma

Differentiation of Recent *US Mycoplasma gallisepticum* Isolates from MG Vaccine using PCR-RFLP.

Natalie K. Armour, Victoria A. Laibinis and Naola Ferguson-Noel, *Poultry Diagnostic and Research Center, Department of Population Health, College of Veterinary Medicine, University of Georgia, Athens, GA.*

Characterization and Comparison of Virulence *Mycoplasma synoviae* Reference Strain and Filed Isolates in Korea.

Eun-Ok Jeon, Hye-Sun Jang, Bon-Sang Koo, Moo-Sung Han, Kyeong-Cheol Min, Hae-Rim Lee, In-Pil Mo, *College of Veterinary Medicine, Chungbuk National University 48 Gaeshin-dong Heungduk-ku Cheongju Chungbuk.*

Effect of Sample Handling on the Detection of *Mycoplasma gallisepticum* and *M. Synoviae* by Real-time PCR.

Michelle D. Farrar, Victoria A. Laibinis, and Naola Ferguson-Noel, *Department of Population Health, Poultry Diagnostic and Research Center, University of Georgia, Athens, GA.*

Newcastle Virus

Genotype VII Velogenic Venezuelan Newcastle Disease Virus Isolate: Clinical and Pathological Characterization.

Rosmar V. Marcano Marti, Francisco A. Perozo, Dorian L. Dominguez, Rafael Fernández, *Universidad Central de Venezuela, Veterinary College, Maracay Aragua, Venezuela.*

Assessment of Live Newcastle Disease Virus VG/GA Strain (AVINEW®) Subcutaneous Vaccination in Commercial Broilers.

Francisco Perozo, Rosmar Marcano, Francisco Rojo, Rafael Fernández, *University of Zulia, Maracaibo, Venezuela.*

Field Safety and Efficacy of a Vector Marek's/Newcastle Disease Vaccine (rHVT - NDV) as Assessed by Clinical and Productive Performance in a Large Population of Commercial Broilers in Two Different Epidemiological Situations of Field Newcastle Disease cha

Luiz Sesti, Yesenia Vega, Jorge Cortegana, Pascal Paulet, Marcelo Paniago, Fernando Lozano, *Ceva Animal Health, Paulinia, Brazil.*

Effect of Challenge with Virulent NDV on Broiler Chickens Receiving Different Vaccination Programs.

Rubén Merino, Alejandro Rojas, Ramón Ochoa, Francisco Rojo, Dmz Aves, *Departamento de Medicina y Zootecnia de Aves, Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México, México DF, México.*

NDV HN Gene C-terminal Extension is not the Determinant of the Enteric Tropism but Influences the Virus Virulence.

Wei Zhao, Laszlo Zsak, Qingzhong Yu, *USDA, Southeast Poultry Research Laboratory, Athens, GA.*

Salmonella

Isolation and Characterization of *Salmonella* from Environments of Commercial Chicken Farms and Chicken Carcasses.

Moo-Sung Han, Bon-Sang Koo, Hae-Rim Lee, Eun-Ok Jeon, Hye-Sun Jang, In-Pil Mo, *Avian Disease Laboratory, College of Veterinary Medicine, Chungbuk National University, Cheongju, Korea.*

Characterization of *S. Senftenberg* Associated with Turkeys.

Catherine M. Logue, Shana R. Petermann, Bryon Nicholson, and Julie S. Sherwood, *Department of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA.*

Correlation between Water Activity Values, Presence of Fungi and *Salmonella* sp in Rice Hulls used in Poultry Houses and Birds Microbiological Analysis.

Milangel Bastidas, Laura Milano, Dayana Perez, Yanes Viamney, and Luis Gómez, *Health Services, Diagnostic Laboratory, Protinal - Proagro, CA. Valencia, Venezuela.*

Development of a Multiplex Real-Time PCR for the Serotype-specific *Salmonella* Enteritidis.

Rocio Crespo, Kimlam Chiok, Claire A. Warren, Devendra H. Shah, *Avian Health and Food Safety Laboratory (WADDL, WSU), Puyallup, WA.*

Surveys

A Review of Respiratory Pathogens Identified by Virus Isolation and Molecular Detection Methods from Specimens Submitted to a South Alabama Diagnostic Laboratory.

Joel L. Cline, Lanqing Li, Lauren A. Gibbs and Mary Margaret Lawson, *J. B. Taylor Veterinary Diagnostic Laboratory, Elba, AL.*

Summary of Diseases Diagnosed in Broiler Chickens in Central California; 2010-2012.

H. L. Shivaprasad, Silvia Carnaccini, G. Senties, B. Charlton, D. Mills, P. Woolcock and R.P. Chin, *CAHFS, Tulare, University of California, Davis, CA.*

Virology

Comparative Pathogenicity of Turkey Arthritis Reovirus (TARV) in Poult.

Tamer A. Sharafeldin, Sunil K. Mor, Aschalew Z. Bekele, Harsha Verma, Robert E. Porter and Sagar M. Goyal, *Minnesota Veterinary Diagnostic Laboratory, University of Minnesota, St. Paul, MN.*

Isolation and Molecular Characterization of a Turkey Arthritis Reovirus.

Sunil K. Mor, Harsha Verma, Tamer A. Sharafeldin, Robert E. Porter, Andre Ziegler, and Sagar M. Goyal, *Minnesota Veterinary Diagnostic Laboratory University of Minnesota, , St. Paul, MN.*

Birnavirus-associated Proventriculitis in Broiler Chickens: Clinical and Virological Investigations of French Outbreaks.

Jean-Luc Guérin, Olivier Leon, Olivier Albaric, James S. Guy and Jocelyn Marguerie, *Ecole Nationale Veterinaire, Toulouse, France.*

Comparative Genome Sequence Analysis of Chicken and Turkey Parvoviruses.

Laszlo Zsak, Rami Cha, and J. Michael Day, *Southeast Poultry Research Laboratory, Agricultural Research Service, USDA, Athens, GA.*

Genome Analysis of Chicken Astrovirus Collected on FTA cards from South Africa and Comparison to Other Published Sequences.

Kyung-il Kang, Shahn Bischof, Erich Linneman, Holly S. Sellers, *Poultry Diagnostic and Research Center, Department of Population Health, The University of Georgia, Athens, GA.*

Evaluation of Virus Interactions in the Etiology of Runting-Stunting Syndrome (RSS).

Milos Markis, John K. Rosenberger, Sandra C. Rosenberger and Robin W. Morgan, *AviServe LLC, Delaware Technology Park, Newark, DE.*

Reovirus as an Etiologic Component of Leg Problems in Ontario Broilers in 2012.

Emily Martin, Marina Brash, Sarah Hoyland, Christian Sandrock and Davor Ojkic, *Animal Health Laboratory, University of Guelph, Guelph, Ontario, Canada.*

A Neutralizing Epitope is Localized in Spike Protein of Turkey Coronavirus.

Tsang Long Lin, Yi-Ning Chen, Ching Ching Wu, *Department of Comparative Pathobiology, Purdue University, West Lafayette, IN.*

Serological Evidence of Avian Pneumovirus Infection in Broiler and Layer Chickens in Grenada, West Indies.

Ravindra N. Sharma, Keshaw P. Tiwari, Alfred Chikweto, Graeme Stratton, *Pathobiology Academic Program, School of Veterinary Medicine, St George's University Grenada, West Indies.*

Virology (continued)

Molecular Epidemiology of Enteric Viruses Detected in Commercial Chicken Flocks Suffering Enteritis in 2010 and 2012.

Bon-Sang Koo, Hae-Rim Lee, Eun-Ok Jeon, Hye-Sun Jang, Moo-sung Han, In-Pil Mo, *Avian Disease Laboratory, College of Veterinary Medicine, Chungbuk National University, Cheongju, Korea.*

Histopathology of Recent Cases of Viral Arthritis in Broiler Chickens.

Frederic J. Hoerr, *College of Veterinary Medicine, Auburn University, Auburn, AL.*

Welfare

Disease Monitoring of Welfare-Certified Layer Farms in Korea, 2011-2012.

Kyeong-Cheol Min, Chang-Hee Lee, Eun-Ok Jeon, Hae-Rim Lee, Bon-Sang Koo, Hye-Sun Jang, Moo-Sung Han, In-Pil Mo, *Avian Disease Laboratory, College of Veterinary Medicine, Chungbuk National University, Cheongju, Korea.*

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AAAP/AVMA Future Annual Convention dates and locations



Future Convention Sites

2014	July 26 - 29	Denver, CO
2015	July 11-14	Boston, MA
2016	August 5-8	San Antonio, TX
2017	July 7-11	Chicago, IL

Other Meetings of Interest

XVIII Congress of the World Veterinary Poultry Association, August 19-23, 2013 Nantes, France.
www.wvpac2013.org

The American Association of Avian Pathologists promotes scientific knowledge to enhance the health, well-being, and productivity of poultry to provide safe and abundant food for the world.