

AAAP Symposium

Enteric Disease in Poultry: Recent Advances in Characterization, Diagnosis, and Control.

Saturday, August 4, 2012 (8:00AM – 12:30PM)

- 8:00 – 8:30 AM** **Current Enteric Health Status of US Broiler Chickens.**
John Smith, *Fieldale Farms Corporation, Baldwin, GA.*
- 8:30 – 9:00 AM** **Current Enteric Health Status of Commercial Turkeys in the United States.**
David Rives, *Prestage Farms Inc., Clinton, NC.*
- 9:00 – 9:30 AM** **The Role of a Novel Astrovirus in Runting and Stunting Syndrome.**
Holly Sellers, *Poultry Diagnostic And Research Center, Department of Population Health, The University of Georgia, Athens, GA.*
- 9:30 – 10:00 AM** **Bacterial Relationships in Enteric Disease.**
Daniel Petri and Daniel Karunakaran *Applied Microbiology & Nutrition Research Group, Animal & Environmental Applications– Health & Protection Technology, Dupont Nutrition & Health, Waukesha, WI.*
- 10:00-10:30 AM** **Break**
- 10:30 – 11:00 AM** **Global Comparisons of the Avian Transcriptional Responses Against Three Eimeria Species, E. acervulina, E. maxima and E. tenella.**
Hyun Soon Lillehoj, and Duk Kyung Kim, *Animal Parasitic Diseases Laboratory, Animal and Natural Resources Institute, Beltsville Agricultural Research Center, United States Department of Agriculture, Agricultural Research Service, Beltsville, MD.*
- 11:00 – 11:30 AM** **The Effect of Enteric Health on Systemic Disease.**
Julia Dibner, Frances Yan, Christopher Knight, *Novus International, Inc., St. Charles, MO.*
- 11:30 – 12:00 PM** **Management and Intestinal Health Factors Influencing Caloric Efficiency.**
Robert G. Teeter¹, Ali Beker¹, Linnea Newman² and Charles Broussard², *1Department Of Animal Science, Oklahoma State University, Stillwater, OK, 2 Merck Animal Health, Athens, GA .*
- 12:00 – 12:30 PM** **An Overview of Pathology of the Intestine in Poultry.**
H. L. Shivaprasad- *California Animal Health and Food Safety Laboratory System , University of California, Davis, CA.*
- 12:30 PM** **Adjourn**



AAAP Scientific Program

Sunday, August 5, 2012



Room 29 AB		Room 29 CD
Topic	Case Reports (1)	Immunology
Moderator	Brett Rings	Scott Callison
8:00 AM	If Not Infectious Laryngotracheitis, Then What is it? (Case Report). Travis A. Cigainero, <i>Director of Veterinary Services – West, Pilgrim's Pride, Pittsburg, TX.</i>	Decay of Passively Transferred Antibodies Delivered Via in Ovo Injection. Blayne M. Mozisek, Scott A. Callison, Anne L. Hurley-Bacon, Charles Hofacre, <i>University of Georgia, Poultry Diagnostic and Research Center, Athens, GA.</i>
8:15 AM	Northern Fowl Mites in Broiler Breeders in U.S. Poultry Industry. (Case Report). David French, <i>Elanco Animal Health, Bogart, GA.</i>	Macrophage Function as a Predictor of Resistance to Coronavirus Associated Illness in B Haplotype Defined Chicks. Ellen Collisson, Yvonne Drechsler, Ghida Banat, Lisa Griggs, Suzana Tkalcic, Renee Kopulos, W.E. Briles and Maisie Dawes, <i>College of Veterinary Medicine, Western University of Health Science, Pomona, CA.</i>
8:30 AM	Industry Interventions to Control MS in a High Prevalence Zone. (Case Report). Louise Dufour-Zavala, Ben Johnson, Naola Ferguson-Noel, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>	TLRs and Cytokine Profile of Chicken B Cell Added with Yeast-Derivate Carbohydrates. Harold Echeverry, Alexander Yitbarek, Mohammadali Alizadehsadrnaneshpour, Peris Munyaka, Bogdan Slominski, Juan C. Rodriguez-Lecompte, <i>University of Manitoba, Winnipeg, Canada.</i>
8:45 AM	Outbreak of Listeria Monocytogenes in an Urban Poultry Flock. (Case Report). Rocio Crespo, D. Douglas, S. Hopkins <i>Washington State University, Puyallup, WA.</i>	Antibody-Mediated Immune Response in Broiler Chickens Fed Yeast-Derived Products and Distillers Dried Grains with Solubles (DDGS). Mohammadali Alizadehsadrnaneshpour, Harold Echeverry, J.C. Rodriguez, B.A. Slominski, <i>Department of Animal Science, University of Manitoba, Winnipeg, Canada.</i>
9:00 AM	Thyroid Hyperplasia (Goiter) in Backyard Chickens Caused by Ingestion of Goitrogenic Vegetables. (Case Report). Jarra F. Jagne, Belinda S. Thompson, Elizabeth L. Buckles, Pepi F. Leids, Teresa L. Southard, Jodie A. Gerdin, Robert J. Ossiboff <i>Animal Health Diagnostic Center, Cornell University College of Veterinary Medicine, Ithaca, NY.</i>	Age-Associated Cytokine Expression Profile in Spleen and Cecal Tonsils in Laying Hens Supplemented with Folic Acid Under an Acute Escherichia Coli Derivate- Lipopolysaccharide Challenge. Peris M. Munyaka, Karmin O, James D. House, Michael St. Paul, Shayan Sharif, and Juan C. Rodriguez-Lecompte, <i>University of Manitoba, Winnipeg, Canada.</i>
9:15 AM	Hatchery-Induced Marek's Disease in Colored Broilers and Broiler Breeders Raised for the Live Bird Market. (Case Report). Robert L. Owen, Eva Wallner-Pendelton, Patricia Dunn, <i>Huvepharma, Inc., New Oxford, PA.</i>	Evaluation of a Commercially Available Chicken Ovo-transferrin ELISA Kit Krisna Roy, Mads Kjelgaard-Hansen, Susanne Elisabeth Pors, Anders Miki Bojesen, <i>Microbiology Section, Veterinary Disease Biology Department, Faculty Of Life Sciences, Copenhagen University, Copenhagen, Denmark.</i>
9:30 AM	Break	
Moderator	John Smith	
9:55 AM	WVPA Young Poultry Veterinarian Award Sponsored by <i>Pfizer Animal Health</i> Keynote Speaker: Technology and Feeding the World Room 29AB Robert Aukerman <i>Elanco Animal Health, Indianapolis, IN.</i>	
Topic	Case Reports (2)	Marek's Disease
Moderator	Mark Bland	Ton Schat
10:30 AM	Aortic Rupture: The Cause of Increased Mortality in Male Turkeys. H. L. Shivaprasad, G. Senties, G. Rimoldi and R. P. Chin, <i>California Animal Health and Food Safety Laboratory System – Tulare Branch, University of California, Davis, CA.</i>	Use of Polymerase Chain Reaction (PCR) in Diagnosis of Marek's Disease and Reticuloendotheliosis in Formalin-Fixed, Paraffin-Embedded Tumorous Tissues. Aly M. Fadly, Weisheng Cao, Jody K. Mays, John R. Dunn and Robert F. Silva, <i>USDA-ARS Avian Disease & Oncology Laboratory, East Lansing, MI.</i>
10:45 AM	Gasping for Air: A Case Report. Sue A. Hubbard and Floyd D. Wilson, <i>Mississippi State University College of Veterinary Medicine, Poultry Research & Diagnostic Lab, Pearl, MS.</i>	Role of Alveolar Macrophages in Dissemination of Marek's Disease Virus from Lungs to Lymphoid Organs. Mohammad Heidari, <i>USDA-ARS-Avian Disease & Oncology Laboratory, East Lansing, MI.</i>
11:00 AM	Imidacloprid Toxicity in Turkey Poults. Kabel M. Robbins <i>Butterball, LLC, Ozark, AR.</i>	Large Subunit of the Ribonucleotide Reductase Gene is a Virulent Factor and Plays a Critical Role in Marek's Disease Virus Pathogenesis. Lucy F. Lee, Aijun Sun, Mohammad Heidari, Robert F. Silva, Blanca Lupiani, and Sanjay M. Reddy, <i>USDA, Avian Disease and Oncology Lab, East Lansing, MI.</i>

Sunday, August 5, 2012 (continued)

Room 29 AB		Room 29 CD
11:15 AM	Insecticide-Associated Transient Paralysis in Five-to-Eight-Day-Old Broiler Chickens. (Case Report). Douglas A. Anderson, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>	Gene Detection, Virus Isolation and Sequence Analysis of Avian Leukosis Viruses in Taiwan Country Chickens. Ching-Ho Wang, Shu-Wei Chang, <i>School of Veterinary Medicine, National Taiwan University, Taipei, Taiwan.</i>
11:30 AM	Wing-Walking in Pen-Raised Bobwhite Quail (Case Report). Douglas A. Anderson, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>	Non-Specific Hemagglutination-Inhibition Reactions in Vaccinated Turkey Breeders. Becky J. Tilley, <i>Butterball, LLC, Goldsboro, NC.</i>
11:45 AM		Serological Examination of Sera from Hyperimmunized Chickens and Turkeys. Janice C. Pedersen, D.R Kapczynski, D.L. Suarez, N.L. Hines M.L. Killian and B.J. Schmitt, <i>National Veterinary Services Laboratories, Veterinary Services, APHS USDA, Ames, IA.</i>
12:15 PM	AAAP Awards Luncheon Lunch served at 12:30 PM Hilton San Diego Gaslamp Quarter	
Topic	Production	Laryngotracheitis
Moderator	Travis Cigainero	Louise Dufour-Zavala
3:00 PM	Histomoniasis: The Role of Healthy Chicken Flocks in Sporadic Blackhead Outbreaks in Turkeys. Donna K. Carver, <i>North Carolina State University, Raleigh, NC.</i>	Laboratory Observations During the Occurrence of Vaccinal Infectious Laryngotracheitis (vILT) in Mississippi During Year 2011. Alejandro Banda, Floyd Wilson, Rebecka Mackey, Candy Zhang, Tiffany Tabor, and Danny Magee, <i>Poultry Research & Diagnostic Laboratory, College of Veterinary Medicine, Mississippi State University, Pearl, MS.</i>
3:15 PM	Leg Atrophy Predicting Osteomyelitis in Heavy Toms with Green Livers. Annika L. Hoffman, Meagan R. Slater, David Rives, Donna K. Carver, Michael P. Martin, and H. John Barnes, <i>Department of Population Health And Pathobiology, North Carolina State University, College of Veterinary Medicine, Raleigh, NC.</i>	Economics of an LT Outbreak: The Cost of Being a Good Neighbor. Armando Mirande, Phil A. Stayer, Erin G. Riley, <i>Sanderson Farms, Inc., Laurel, MS.</i>
3:30 PM	The Effect of Direct-Fed Microbial Preparations on Young Commercial Turkeys. Daniel Karunakaran and Greg Siragusa, <i>Danisco Animal Nutrition, Waukesha, WI.</i>	Field Evaluation of LT CEO Vaccination Methods in Broilers Using Serologic and Histopathologic Techniques. Erin G. Riley, Phil A. Stayer, Armando Mirande, Alejandro Banda, Tim S. Cummings, Floyd D. Wilson, <i>Sanderson Farms Inc., Laurel, MS.</i>
3:45 PM	The Impact of Raising Turkeys on Used Chicken Litter. Jean-Pierre Vaillancourt, Andres Ramirez, Ann LeTellier, <i>Dept Clinical Sciences Faculty of Veterinary Medicine, University of Montreal, Saint Hyacinthe, PQ, Canada.</i>	Clinical Infectious Laryngotracheitis (ILT) in a Commercial Broiler Flock After Vaccinating with Recombinant and Chick Embryo Origin ILT Vaccines. Philip A. Stayer, Alejandro Banda, L. Armando Mirande and Erin G. Riley <i>Sanderson Farms, Inc., Laurel, MS.</i>
4:00 PM	Impact of Ropadire 8% Administration Oregano Oil on Roundworm Infestations of Aviary Housed Laying Hens. Nancy D.T. Reimers, <i>Cutler Associates International, Moorpark, CA.</i>	Impact of Method of Administration and Dose of Chicken Embryo Origin (CEO) Infectious Laryngotracheitis Vaccines on Vaccine Efficacy, Safety and Vaccine Virus Persistence. John K. Rosenberger, Sandra C. Rosenberger and Milos Markis, <i>Aviserve Llc, Newark, DE.</i>
4:15 PM	Impact of Fresh or Used Litter on the Post-Hatch Immune System of Commercial Broilers. Hyun S. Lillehoj, Kyung-Woo Lee, Sung-Hyen Lee, Seung-Ik Jang, G. Donald Ritter, D. A. Bautista, Erik P. Lillehoj, <i>ARS-USDA, Beltsville, MD.</i>	Chicken Embryo Origin (CEO) Infectious Laryngotracheitis Vaccine Administration and Shedding Patterns in Broilers. Mark A. Burleson, John K. Rosenberger, Toria J. Boon, <i>Wayne Farms Llc, Decatur, AL.</i>
4:30 PM	Investigation on the Pathogenicity of Wild-Type and Small-Colony-Variant Isolates of <i>Streptococcus equi</i> Subsp. <i>zooepidemicus</i> by Different Infection Routes in Chickens. Krisna Roy, Magne Bisgaard, Jens Peter Christensen, Niels Christian Kyvsgaard, Ole Lerberg Nielsen, Mads Kjelgaard-Hansen, Anders Miki Bojesen, <i>Microbiology Section, Faculty of Life Sciences, Copenhagen University, Copenhagen, Denmark.</i>	Onset and Duration of Immunity Against a Virulent Field Isolate of ILTV Induced by Killed, Recombinant, and Modified Live Virus Vaccines in Commercial Layers. Victor A. Palomino, Guillermo Zavala, Sunny Cheng, and Maricarmen Garcia, <i>Department of Population Health, Poultry Diagnostic And Research Center, The University of Georgia, Athens, GA.</i>
4:45 PM	A Cross-Sectional Survey on the Prevalence and Antibiotic Resistance of <i>Salmonella</i> at Live Bird Markets in Bangladesh. Sadhana Adhikary, Himel Barua, Krisna Roy, Paritosh Kumar Biswas <i>Veterinary Disease Biology Dept., Copenhagen University, Copenhagen, Denmark.</i>	Evaluation of In Ovo Vaccination with Live-Attenuated Strains of Infectious Laryngotracheitis Virus (ILTV). Anna Mashchensko, Sylva M. Riblet, Guillermo Zavala, and Maricarmen Garcia, <i>Poultry Diagnostic And Research Center, Department of Population Health, University of Georgia, Athens, GA.</i>
5:00 PM	Adjourn	

Room 29 AB		Room 29 CD
Topic	GI Health, Coccidiosis (1)	Mycoplasma
Moderator	Ken Bafundo	Bruce Charlton
8:00 AM	Attempt to Develop an Objective, Quantitative, Bird-Side Evaluation of Gastrointestinal Health in Poultry. Anne L. Hurley, L. Fuller, S.R. Collett, <i>Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i>	Maximum Discriminatory Potential of the Mycoplasma synoviae vIhA Gene. Mohamed M. El-Gazzar, Ziv Raviv, Amy Wetzel, <i>The Ohio State University, Columbus, OH.</i>
8:15 AM	Graphical Review of Health Survey (Posting Session) Data Collected from 90,000 Broiler Chickens in the United States Between the Years of 2006 – 2011. Blair E. Telg, <i>Elanco Animal Health, Greenfield, IN.</i>	Studies with Mycoplasma gallisepticum F-Strain Vaccines. Naola Ferguson-Noel, Saad Gharaibeh, Victoria Laibinis, <i>Department of Population Health, Poultry Diagnostic And Research Center, The University of Georgia, Athens, GA.</i>
8:30 AM	The Influence of Light Intensity in Vaccine Uptake in the Hatchery. John E. McCarty, <i>Merial Select, Inc., Gainesville, GA.</i>	Comparative Evaluation of the Transmissibility of Two Mycoplasma synoviae Isolates from MS Outbreaks in Arkansas. Natalie K. Armour, Naola Ferguson-Noel, Scott J. Gustin, Victoria Laibinis, <i>Poultry Diagnostic and Research Center, The University of Georgia, Athens, GA.</i>
8:45 AM	Simple Technique to Boost Live Eimeria Vaccine Efficacy for Replacement Layer Pullets. Kayla R. Price, Dr. Mike Petrik, Dr. Linnea Newman, Dr. John R. Barta, <i>Ontario Veterinary College, Univeristy of Guelph, Guelph, ON, Canada.</i>	Relocation of Mycoplasma Gallisepticum-Infected Poultry During a Rescue Operation, Resulting in Exposure of 10 New Premises to the Disease. Sarah J. Mason, Jimmy Collie, David T. Marshall, <i>North Carolina Department of Agriculture and Consumer Services, Raleigh, NC.</i>
9:00 AM	Practical Application of Gel-Bead Technology for Administering Eimeria Oocysts to Day-Old Chicks. Mark Jenkins, Raymond Fetterer, Joseph Persyn, Darren Barlow, Kate Miska, <i>Agricultural Research Service, USDA, Beltsville, MD.</i>	The First Annual Mycoplasma gallisepticum and Mycoplasma synoviae PCR Proficiency Panel: Anonymous Results and Discussion of Key Observations. Scott A. Callison, Charles S. Roney, <i>Gtcallison, Llc, Mocksville, NC.</i>
9:15 AM	The Role of Nutrition in Maintaining Gut Health in the Presence of Coccidial Cycling. Andres F. Montoya, Julia J. Dibner, Frances Yan and Chris D. Knight, <i>Novus International, Inc., St. Charles, MO.</i>	
9:30 AM	Break	
Moderator	R. P. Chin	
10:00 AM	Lasher-Eckroade History Lecture: The History of DNA Biotechnology in the Poultry Industry Dr. Calvin Keeler	Rooms 29AB
10:30 AM	AAAP Business Meeting	
		Rooms 29AB
12:00 PM	Lunch Break	
Topic	Coccidiosis (2)	Avian Influenza (1)
Moderator	Jaime Ruiz	Nathaniel Tablante
1:00 PM	Ration Formulation to Enhance Feed Conversion and Reduce Feed Cost in Broilers Vaccinated with a Live Coccidiosis Vaccine. Linnea J. Newman, Robert G. Teeter, Derek J.T. Detzler, <i>Merck Animal Health, Summit, NJ.</i>	Notifiable Avian Influenza: A Review of Diagnosis and Response. James T. Barton, <i>The Poultry Federation Lab, Little Rock, AR.</i>
1:15 PM	Live Coccidia Vaccines: Immunity Level at 30 Days. Steve H. Fitz-Coy, <i>Merck Animal Health, Salisbury, MD.</i>	Interstate Movement of Eggs During an Outbreak of Highly Pathogenic Avian Influenza by Fast Eggs Plan Premises. Darrell W. Trampel, J. P. Mogan, D. D. Schmitt, K. L. Petersburg, K.P. Flaming, J. A. Roth, <i>Veterinary Diagnostic and Production Animal Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA.</i>
1:30PM	Growth, Performance and Metabolic Parameters of Broilers Vaccinated with COCCIVAC-B™; COCCIVAC-B52™. Robert G. Teeter, A. Beker, K. Judd, K. Harris, C. Carroway, J. Schrader, L. Newman, C. Broussard, <i>Oklahoma State University, Stillwater, OK.</i>	A Reflection on Six Years of Avian Influenza Antibody Testing at the Georgia Poultry Laboratory Network. Len Chappell, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i>

Monday, August 6, 2012 (continued)

Room 29 AB		Room 29 CD
1:45PM	<p>The Comparison of the Onset of Immunity Against a Heterologous Eimeria maxima Challenge in Broilers Vaccinated with COCCIVAC-B52 or Other Commercial Coccidiosis Vaccines. Stephen W. Davis, Steve Fitz-Coy, Joan Schrader, Charles Broussard, Linnea Newman, <i>Colorado Quality Research, Inc., Wellington, CO.</i></p>	<p>Global Assessment of Avian Influenza Control Strategies with Emphasis on Vaccines and Vaccination. David E. Swayne, <i>U.S. Department of Agriculture, Athens, GA.</i></p>
2:00 PM	<p>Effects of in Ovo Vaccination and Anticoccidials on the Distribution of Eimeria Spp. in Poultry Litter and Serum Antibody Titers Against Coccidia in Broiler Chickens Raised on the Used Litters. Hyun S. Lillehoj, K.W. Lee, S.I. Jang, M. Pages, D.A. Bautista, C.R. Pope, G. D. Ritter, E.P. Lillehoj, A.P. Neumann, G.R. Siragusa, <i>ARS-USDA, Beltsville, MD.</i></p>	<p>Comparison of the Pathogenesis and Innate Immune Responses to Avian Influenza Viruses in Chickens and Ducks. Mary Pantin-Jackwood, RaMi Cha, Diane Smith, Eric Shepherd and Caran Cagle, <i>Southeast Poultry Research Laboratory, Exotic And Emerging Avian Viral Diseases Unit. USDA-Agricultural Research Service, Athens, GA.</i></p>
2:15 PM		<p>Vaccination and Pathogenesis Studies in Ducks Using Vietnam H5N1 HPAI Viruses. RaMi Cha, Diane Smith, Eric Shepherd, Ruben Donis, Thanh Long To, Tung Nguyen, David L. Suarez, and Mary Pantin-Jackwood, <i>Southeast Poultry Research Laboratory, Exotic and Emerging Avian Viral Diseases Unit. USDA-Agricultural Research Service, Athens, GA.</i></p>
2:30 PM	Break	
Topic	Coccidiosis (3)	Avian Influenza (2)
Moderator	Steve Fitz-Coy	Pedro Villegas
2:45 PM	<p>3-Nitro Benefits and Feed Additive Alternatives. Greg F. Mathis, <i>Southern Poultry Research, Inc., Athens, GA.</i></p>	<p>Impact of HPAI H5N1 Infection on Select Blood Chemistry and Gas Ranges in Layers, Broilers and Turkeys Using the i-STAT Clinical Analyzer. Darrell R. Kapczynski, Aniko Zsak, Myron Downs. <i>Southeast Poultry Research Laboratory, USDA-ARS, Athens, GA.</i></p>
3:00 PM	<p>Field Observations from Different Coccidiosis Management Strategies in Broilers Raised without Antibiotic Growth Promotants (AGP's) – A Field Trial. Suzanne Dougherty, Ken Opengart, Linnea Newman, Charlie Broussard, Marilynn Finklin, Greg Mathis, <i>Keystone Foods LLC, Huntsville, AL.</i></p>	<p>A Higher Frequency of Amino Acid Mutations in the Hemagglutinin During Serial Passage of a Chicken Isolate in Comparison to a Wild Bird Isolate in Waterfowl Indicates a Stronger Selection Process During Serial Passage. Callie Ridenour, Les Jones, Mark Tompkins, Ralph Tripp, Egbert Mundt, <i>Poultry Diagnostic And Research Center, The University of Georgia, Athens, GA.</i></p>
3:15PM	<p>Experimental Irradiated Oocysts Vaccine: Development and Preliminary Evaluation. Raymond H. Fetterer, Mark C. Jenkins, <i>Animal Parasitic Diseases Laboratory, Animal & Natural Resources Institute, USDA/ARS, Beltsville, MD.</i></p>	<p>Pathogenesis of Asian H5N1 Avian Influenza Virus Strains with Truncated NS1 Gene and Polybasic HA Cleavage Amino Acid Sequence in Chickens. Samadhan J. Jadhao, Jamie Wasilenko, David Suarez and Mary Pantin-Jackwood, <i>Southeast Poultry Research Laboratory, USDA-ARS, Athens, GA.</i></p>
3:30 PM	<p>Mucosal Immunity Against Eimeria acervulina Infection in Broiler Chickens Following Oral Immunization with Profilin in Montanide™ Adjuvants. Juliette Ben Arous, Seung I. Jang, Hyun S. Lillehoj, Sung Hyen Lee, Kyung Woo Lee, Francois Bertrand, Laurent Dupuis, Sebastien Deville, <i>Seppic, Puteaux, France.</i></p>	<p>Comparison of Reassortant Viruses from Pandemic H1N1 and Swine H3N2 Viruses. David L. Suarez, Samadhan Jadhao, and Chang-Won Lee, <i>Southeast Poultry Research Laboratory, Athens GA.</i></p>
3:45 PM		<p>Deep Pyrosequencing and Real-Time PCR Applied to Clinical Monitoring of Neuraminidase Evolution in Low Pathogenic Avian Influenza Viruses. Jean-luc Guérin, Guillaume Croville, Sebastien Soubies, Leni Corrand, Etienne Liais, Jerome Mariette, Christophe Klopp, Christelle Camus-Bouclainville, <i>University of Toulouse, National Veterinary School, Toulouse, France.</i></p>
4:00 PM	<p>Wine & Cheese Social Poster Rooms 30ABC</p>	
5:15 PM	Adjourn	

	Room 29 AB	Room 29 CD
Topic	Clostridal Diseases	Enteric Viruses
Moderator	Greg Mathis	H. L. Shivaprasad
8:00 AM	<p>Evaluation of Control Measures for Clostridial Dermatitis. David V. Rives <i>Prestage Farms, Inc., Clinton, NC.</i></p>	<p>Characterization of Several Viruses Associated with Enteritis and Enteropathy (Runting Stunting Syndrome) in Broilers. Milos Markis, John K. Rosenberger, Sandra C. Rosenberger, Robin W. Morgan and John Elattrache, <i>Aviserve LLC, Newark, DE.</i></p>
8:15 AM	<p>Effects of Coccidial Infection in the Development of Cellulitis in Turkeys. Anil J. Thachil and Kakambi V. Nagaraja, <i>University Of Minnesota, St. Paul, MN.</i></p>	<p>Reed Rumsey Award* Evidence that a Novel Chicken Astrovirus is Involved in RSS Pathogenesis in Commercial Broilers. Kyung-il Kang*, Holly S. Sellers, Erich Linneman, Alan H. Icard, Egbert Mundt, <i>Poultry Diagnostic and Research Center, Department of Population Health, The University of Georgia, Athens, GA.</i></p>
8:30 AM	<p>Use of an Early Clostridium perfringens Oral Challenge to Protect Against a Clostridium septicum Challenge in a Repeatable Model Creating Significant Clostridium Dermatitis Mortality in Turkeys. Sam M. Hendrix, Stephen W. Davis, <i>Colorado Quality Research, Inc., Wellington, CO.</i></p>	<p>Development of Recombinant Vaccines Against Chicken Parvovirus. Stephen J. Spatz and Laszlo Zsak, <i>Southeast Poultry Laboratory, Athens, GA.</i></p>
8:45 AM	<p>Identification and Cloning of Two Immunogenic Clostridium Perfringens Proteins, Elongation Factor Tu and Pyruvate: Ferredoxin Oxidoreductase of C. Perfringens. Hyun S. Lillehoj, Kyungwoo Lee, Seung I. Jang, Sung-Hyen Lee, Dong-Jun An, Erik P. Lillehoj, <i>ARS-USDA, Beltsville, MD.</i></p>	<p>Several Cases of Transmissible Proventriculitis in Commercial Grandparent Broiler Breeders. Bret Rings, Fred Hoerr, Jim Guy, Scott Gustin, <i>Cobb-vantress, Inc., Siloam Springs, AR.</i></p>
9:00 AM	<p>The Use of an on Farm Biochemical Profile for Poultry in the Diagnosis and Treatment of Metabolic Disorders. Daniel Venne, and Younès Chorfi, <i>Couvoir Scott Itée, Scott, Quebec, Canada.</i></p>	<p>Detection of Chicken Proventricular Necrosis Virus by Reverse Transcriptase-PCR in Chickens from Venezuela. Luz M. Garcia and Luzmir Boyer, <i>Centro De Diagnóstico Molecular, AgroserVICIOS Luzvill C.a. Centro Comercial Viscariello, Planta Alta, Local 5. Turmero, Venezuela.</i></p>
9:15 AM	<p>Development and Characterization of Mouse Monoclonal Antibodies Reactive with Chicken CD83. Sung-Hyen Lee, Hyun S. Lillehoj, Seung-Ik Jang, Kyung-Woo Lee, Cynthia Baldwin, Dannielle Tompkins, Bettina Wagner, Emilio Del-Cacho, Erik P. Lillehoj, <i>ARS-USDA, Beltsville, MD.</i></p>	<p>The Prevalence and Impact of Enteric Viruses of Commercial Turkeys in the Southeast United States. Eric A. Heskett, Jack Rosenberger, Nannette Olmeda-Geniec, <i>Elanco Animal Health, Greenfield, IN.</i></p>
9:30 AM	Break	
Topic	Wealth of Knowledge	Enteric Viruses, Pox Virus, Infectious Bronchitis
Moderator	Mark Burleson	Ellen Collisson
10:00 AM	<p>Tissue Residue Depletion of Albendazole in Chickens. Timothy S. Cummings, Lloyd Bennett, <i>Mississippi State University, Pearl, MS.</i></p>	<p>Turkey Astrovirus Capsid Protein Induces Electrophysiological Changes in the Intestinal Epithelium. Prashant Nighot, Rizwana A. Ali, Lindsey Moser, Pam Freiden, Stacey Schultz-Cherry, Anthony T. Blikslager, Matthew D Koci, <i>North Carolina State University, Raleigh, NC.</i></p>
10:15 AM	<p>Role of Hygromycin B as an Anthelmintic in Poultry. Sara J. Steinlage, Bryana Clover, and Kristina Baker, <i>Elanco Animal Health, Greenfield, IN.</i></p>	<p>Avirulent Turkey Hemorrhagic Enteritis Virus Detected in Spleens of Asymptomatic Naked Neck Broilers. Jocelyn A. Romano, Melissa A. West, Kabel Robbins, and James S. Guy, <i>North Carolina State University College of Veterinary Medicine Department of Population Health and Pathobiology, Raleigh, NC.</i></p>
10:30 AM	<p>Common Causes of Laying Hen Mortality. Richard M. Fulton, <i>Diagnostic Center for Population and Animal Health, Michigan State University, Lansing, MI.</i></p>	<p>Molecular Characterization of Avianpox Viruses Using Formalin Fixed Tissue Sections. Deoki N. Tripathy, Bahaa Fadl-Alla and Arun Kulkarni, <i>University Of Illinois, Urbana, IL.</i></p>
10:45 AM	<p>Using Lean Six Sigma to Improve Hatch in a Commercial Hatchery. Robinette A. Gilbert, Thomas D. Baker, <i>Elanco Animal Health, Indianapolis, IN.</i></p>	<p>Characterization of the S2 Gene Sequences of Infectious Bronchitis Virus Isolate CA/1737/04 from Backyard Flocks and Broilers. Arun B. Kulkarni, <i>Georgia Poultry Laboratory, Oakwood, GA.</i></p>
11:00 AM	<p>Data Mining and Analytics-Based Decision Making in Today's Data-Driven Poultry Industry. Eric A. Heskett, Kenneth K. Krueger, Kevin L. Watkins, <i>Elanco Animal Health, Greenfield, IN.</i></p>	<p>Characterization of Nephropathogenic Infectious Bronchitis Virus from Delmarva Broiler Chickens-2011. Jack Gelb, Jr., Brian Ladman, Conrad Pope, Miguel Ruano, Erin Brannick, and Daniel Bautista, <i>University Of Delaware, Newark, DE.</i></p>
11:15 AM	<p>An Outbreak of Neurotropic Reovirus Infection in Broiler Chickens. Guillermo Zavala, Elena Behnke, Oscar Fletcher, Susan M. Williams, Holly Sellers, Sunny Cheng, and Louise Dufour-Zavala, <i>Department of Population Health, Poultry Diagnostic And Research Center, The University of Georgia, Athens, GA.</i></p>	<p>Ciliostasis as a Measure of Cross-Protection Using a Multivalent Vaccine Against IBV. Mark W. Jackwood, Deborah A. Hilt, Susan M. Williams, Ruud Hein, <i>University of Georgia, Athens, GA.</i></p>

Tuesday, August 7, 2012 (continued)

Room 29 AB		Room 29 CD
11:30 AM	<p>Impact of Newcastle Disease Vaccination Programs on Metabolic Parameters and Broiler Performance. Robert G. Teeter, K. Judd, C. Carroway, K. Harris, A. Beker J. Schrader, A. Malo and C. Broussard, <i>Department of Animal Science, Oklahoma State University, Stillwater, OK.</i></p>	<p>Development and Evaluation of Recombinant Adenovirus Encoding the IBV S1 Protein. Haroldo Toro, Rodrigo A. Gallardo, Francisca Arias, Vicky L. van Santen, Frederik W. van Ginkel, JianFeng Zhang, Kellye S. Joiner, <i>Department of Pathobiology, College of Veterinary Medicine, Auburn University, Auburn, AL.</i></p>
11:45 AM	<p>Transmissible Viral Proventriculitis Associated with Runting Stunting Syndrome in Broiler Chickens. H. L. Shivaprasad, G. Senties, R. P. Chin, J. Guy, G. Rimoldi and B. Charlton, <i>California Animal Health and Food Safety Laboratory System – Tulare and Turlock Branches University of California, Davis, CA.</i></p>	<p>Characterization of Hemagglutination Activity of Infectious Bronchitis Virus and Cell-Associated Hemadsorption Activity of Baculovirus Expressed S1 Glycoprotein. Hui-Wen Chen, Ching-Ho Wang, <i>School of Medicine, University of California, San Diego, CA.</i></p>
12:00 PM	Lunch	
Topic	Layers, Salmonella (1)	Infectious Bursal Disease (1)
Moderator	Rocio Crespo	Daral Jackwood
1:00 PM	<p>Prophylactic Measures (LT) in Layers from the Bastos Region, State of São Paulo, Brazil. Masaio Mizuno Ishizuka, Fernando Gomes Buchala, Luis Antonio Mathias, John Robert Glisson, Maricarmen Garcia, Guillermo Zavala, <i>Faculty of Veterinary Medicine & Animal Sciences of The University of São Paulo, Brazil.</i></p>	<p>Historical, Spatial and Temporal Epidemiology of Very Virulent Infectious Bursal Disease (vvIBD) in California: A Retrospective Study 2008-2011. Maurice Pitesky, Kristina Cataline, Mike Poulos, Gregory Ramos, Beate Crossley, Peter Woolcock, Daral Jackwood, Johnny Tran, and Bruce Charlton, <i>California Department of Food and Agriculture, Sacramento, CA.</i></p>
1:15 PM	<p>Putting the FDA Egg Rule to Work- Development and Implementation of Egg Testing Procedures at GPLN. Kevin W. Smith, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i></p>	<p>Infectious Bursal Disease Virus Segment A & B Analysis in California Poultry Operations. Bruce R. Charlton, Beate M. Crossley, Maurice Pitesky, Peter Woolcock, Simone Stoute and Daral J. Jackwood, <i>University of California-Davis; School of Veterinary Medicine; CAHFS - Turlock, CA.</i></p>
1:30 PM	<p>The Good, the Bad and the Ugly: FDA Egg Safety Rule/FDA on-Farm Audits. Mark C. Bland, <i>Cutler Associates, Moorpark, CA.</i></p>	<p>Molecular and Pathogenic Investigation of Reassortant Very Virulent Infectious Bursal Disease Virus in California, United States. Simone T. Stoute, Daral Jackwood, Susan E. Sommer-Wagner, Beate M. Crossley, Peter R. Woolcock and Bruce R. Charlton, <i>Food Animal Health Research Program, Ohio Agricultural Research and Development Center, The Ohio State University, Wooster, OH.</i></p>
1:45 PM	<p>Salmonella Control in Poultry Using Vaccination. S. Lemiere and E. Montiel, <i>Meriel SAS, Lyon, France.</i></p>	<p>Demonstration of Canadian Isolates of “Variant” Infectious Bursal Disease Virus Crossing the Maternal Antibody Barrier and Causing Severe Bursal Atrophy in Commercial Broilers. Shanika Kurukulasuriya, Davor Ojkic, Tara Zachar, Suresh Tikoo, and Susantha Gomis, <i>Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.</i></p>
2:00 PM	<p>Comparison of Two Salmonella enteritidis Bacterins that Vary in SefD Content in Laying Hens. Roxana Sanchez-Ingunza, Jean Guard, <i>U. S. Department of Agriculture, Agricultural Research Service, Athens, GA.</i></p>	<p>Phylogenetic Analysis of Infectious Bursal Diseases Virus in South Brazil. Luizinho Caron, Paulo Augusto Esteves, Alessandra D’Ávila, Iara Maria Trevizol, Livia Munhoz, Liana Brentano, <i>Embrapa Swine & Poultry, Concórdia, SC, Brasil.</i></p>
2:15 PM	<p>Effect of Feeding Systems and Vaccination Programs on Salmonella enteritidis Colonization and Clearance of E. coli in Broiler Breeder Pullets. Enrique Montiel, Jeanna Wilson, Jeff Buhr, Nelson Cox, Beverly McClendon, Diana Bourassa and Jessica Spickler, <i>Meriel Select, Inc., Gainesville, GA.</i></p>	<p>Molecular and Biological Characterization of IBDV Strains Causing Subclinical Infection in Broilers. Vilmos Palya, Tímea Tatar-Kis, Tamas Mato, Luiz Sesti, Balázs Felföldi, Yannick Gardin, <i>CEVA-Phylaxia, Budapest, Hungary.</i></p>
2:30 PM		<p>Richard B. Rimler Award* Development of A Novel In Vivo Assay to Differentiate Antigenic Variations Among Infectious Bursal Disease Viruses. Vijay Durairaj*, Holly S. Sellers, Susan M. Williams, Egbert S. Mundt, <i>Poultry Diagnostic and Research Center, Department of Population Health, The University of Georgia.</i></p>
2:45 PM	Break	

Room 29 AB		Room 29 CD
Topic	Salmonella (2), Bacteriology	Infectious Bursal Disease (2), Viruses, Welfare
Moderator	Nancy Reimers	Enrique Montiel
3:00 PM	<p>Efficacy of Chemical Interventions for Reducing Salmonella on Raw Turkey Parts used in Ground Turkey Production. Robert O'Connor, <i>Foster Farms, Livingston, CA.</i></p>	<p>Vaccination of Day-Old Chicks with Different Levels of Maternally-Derived Antibodies with Live Infectious Bursal Disease Vaccine. Mohammad Q. Al-Natour, Mohamed K. Hassan and Yahia M. Saif, <i>Department of Pathology and Animal Health, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid, Jordan.</i></p>
3:15 PM	<p>Comparison of Three Rapid Methods for the Detection of Salmonella enteritidis In Poultry Environmental Samples. Douglas Waltman, <i>Georgia Poultry Laboratory Network, Oakwood, GA.</i></p>	<p>Production and Use of a Multivalent Vaccine for Infectious Bursal Disease Using Virus-Like Particles. Daral J. Jackwood, <i>Food Animal Health Research Program, The Ohio State University/OARDC, Wooster, OH.</i></p>
3:30 PM	<p>Use of Intragenic Sequence Ribotyping (ISR) for Serotyping Salmonella Obtained from Poultry and their Environment. Martha Pulido-Landinez, Roxana Sanchez-Ingunza, Jean Guard, Vladimir Pinheiro do Nascimento, <i>Universidade Federal Do Rio Grande Do Sul, Porto Alegre, Brazil.</i></p>	<p>Optimization of Magnesium (Mg²⁺) and Potassium Chloride (KCl) In Avian Metapneumovirus (aMPV) Molecular Diagnostic by Real Time RT-PCR and End Point Plus/Minus Essay. Hayet Abbassi, <i>University of Minnesota, St. Paul, MN.</i></p>
3:45 PM	<p>Construction and Evaluation of Live Attenuated Salmonella Gallinarum Vaccines for Prevention of Fowl Typhoid. Arindam Mitra, Roy Curtiss III and Kenneth L. Roland, <i>Center For Infectious Diseases and Vaccinology, The Biodesign Institute, Arizona State University, Tempe, AZ.</i></p>	<p>Evaluation of a Lasota Strain-Based Recombinant Newcastle Disease Virus (NDV) Expressing the Glycoprotein (G) of Avian Metapneumovirus (aMPV) Subgroup A or B as a Bivalent Vaccine In Turkeys. Qingzhong Yu, Jason P. Roth, Haixia Hu, Carlos N. Estevez, Laszlo Zsak, <i>USDA-ARS, Southeast Poultry Research Laboratory, Athens, GA.</i></p>
4:00 PM	<p>Practical Testing and Understanding of ESBL (Extended Spectrum Betalactamase) E.coli in Poultry. Kate Barger, Andre Derkx, Gemma Griffiths, <i>Cobb-vantress, Inc, Siloam Springs, AR.</i></p>	<p>Detection of Virulent Newcastle Disease Virus (NDV) as a Subpopulation of Low Virulent NDV. Christian Grund, Dirk Höper, Walid Kilany, Timm Harder, Martin Beer, <i>Friedrich-loeffler-institut, Greifswald-riems, Germany.</i></p>
4:15 PM	<p>Protection Conferred by Infectious Coryza Vaccines against Emergent Serovar C-1 of Avibacterium Paragallinarum in Mexico. Vladimir Morales-Erasto, E. Soriano-Vargas, E. Maruri-Esteban, A. Garcia-Sánchez, V. Vega-Sánchez, F. Robles-González <i>Centro De Investigación Y Estudios Avanzados En Salud Animal, FMVZ, UAEM, Toluca México.</i></p>	<p>Genetic Diversity of Avian Paramyxovirus Type 1: Defining Newcastle Disease Virus Genotypes. Diego G. Diel, Luciana H.A. da Silva¹, Patti J. Miller, Claudio L. Afonso, <i>ARS/USDA/SEPR, Athens, GA.</i></p>
4:30 PM	<p>Evaluation of a Practical Administration of Bacteriophage to Prevent Colibacillosis. Willam E. Huff, G. R. Huff, N. C. Rath, and A. M. Donoghue, <i>USDA/ARS, Poultry Production and Product Safety Research Unit, University of Arkansas, Fayetteville, AR.</i></p>	<p>Use of Computer Imaging Vision Technology to Aid in the Monitoring of Animal Welfare Parameters on Broiler Processing Lines. Kenneth N. Opengart, Wayne Daley, Colin Usher, Tom Spangler, James McWard, Suzanne Y. Dougherty, <i>Keystone Foods, Huntsville, AL.</i></p>
4:45 PM		<p>Practical Animal Welfare and Biosecurity for Backyard Flocks. Patricia S. Wakenell, Daniel Wilson, Manny Benitez, <i>Purdue University ADDL, West Lafayette, IN.</i></p>
5:00 PM	Adjourn	

AAAP Poster Session

Avian Influenza

A Survey of Hemagglutinating Viruses from Sparrows in the Province of Buenos Aires, Argentina.

Celina Buscaglia, *Comision De Investigaciones Cientificas De La Provincia De Buenos Aires, Club De Observadores De Aves –divisadero– Partidos De General Madariaga Y Pinamar. Fundacion Ecologica Pinamar, Argentina.*

Development of an Adenovirus-based Avian Influenza DNA Vaccine.

Yi-Chung Chiu and Ching-Ho Wang, *School of Veterinary Medicine, National Taiwan University, Taipei, Taiwan, ROC.*

Preventing Avian Influenza Through Non-Traditional Methods of Disseminating Biosecurity Information to Small-Scale Poultry Flock Owners.

Nathaniel L. Tablante, Jennifer Madsen, Jennifer Timmons, and Nickolas Zimmermann, *University of Maryland College Park, College Park, MD.*

Vaccination of SPF turkeys with a Recombinant HVT Expressing the HA from H5N1 Highly Pathogenic Avian Influenza Protects Against Lethal Challenge.

Darrell R. Kapczynski, Mauro Moraes, Mark W. Jackwood, and Kristi M. Dorsey, *Southeast Poultry Research Laboratory, United States Department of Agriculture, Athens, GA.*

Targeted Surveillance of Avian Influenza in Wild Birds of Puerto Viejo Wetlands using Domestic Ducks (*Cairina Moschata*) as Sentinels.

Eliana Icochea, Armando González, Rosa González, Juan Rondón, *College of Veterinary Medicine, University of San Marcos, Lima, Peru.*

Wild Bird Surveillance for the Avian Influenza Virus in Korea, 2007-2009 and Characterization of Isolates with Short Neuraminidase Stalk.

In-Pil Mo, Seong-Hwan Byun, Jeong-Hwa Shin, Jong-Min Kim, Jung-Hyun Kim, *College of Veterinary Medicine, Chungbuk National University, Cheongju, Republic of Korea.*

Characterization of H10 Subtype Avian Influenza Viruses Isolated from Wild Birds in South Korea.

Hye-Ryoung Kim, Jae-Ku Oem, O-Soo Lee, and You-Chan Bae, *Animal, Plant and Fisheries Quarantine and Inspection Agency, Manangu, Anyangsi, Gyeonggido, Republic of Korea.*

Bacteriology

Acute Septicemia Caused by *Streptococcus pasteurianus* in Turkey Poults.

Dona Saumya S. Wijetunge, Patty Dunn, Eva Wallner-Pendleton, Subhashinie Kariyawasam, *Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, University Park, PA.*

Changes in Antibiotic Resistance of *Ornithobacterium rhinotracheale* Isolates.

Kakambi V. Nagaraja and Anil J Thachil, *College of Veterinary Medicine, University of Minnesota, Saint Paul, MN.*

A Retrospective Field Study of the Sensitivity of *E. coli* to Enrofloxacin After a Treatment with Quinolone.

Charles Facon, Jean Luc Guerin, *Labovet Conseil, Les Herbiers, France.*

Characterization of *Escherichia coli* Strains Isolated from Laying Hens in Mexico.

Cecilia Rosario Cortés, Maritza Tamayo Salmoran, *Departamento De Medicina Y Zootecnia De Aves, FMVZ, UNAM, circuito Exterior, Ciudad Universitaria, 04510, Coyoacán, México, D.F.*

Commercial Layer Peritonitis: Comparison of Commensal and Pathogenic *E. coli* from Adult Hens.

Subhashinie Kariyawasam, Kayla Brown, Chobi DebRoy, Atul A. Chaudhari, Dona Wijetunge, and Thomas N. Denagamage, *The Pennsylvania State University, University Park, PA.*

Evaluation of an Experimental Infection Model for Layer Peritonitis Caused by Avian Pathogenic *Escherichia coli*.

Atul A. Chaudhari and Subhashinie Kariyawasam, *The Pennsylvania State University, University Park, PA.*

Identification of *E. coli* Isolates in Latin America (Field Study 2011).

Maritza Tamayo, Rosario Cecilia, Barbosa Taylor, *Pfizer Animal Health, Mexico City, México.*

Role of Acid Tolerance in the Selection of Avian Pathogenic *Escherichia coli* in Poultry.

Lisa K. Nolan, Catherine M. Logue and Capricia Thompson, *Iowa State University, Ames, IA.*

Prevalence and Characteristics of Intimin-producing *Escherichia coli* strains isolated from Healthy Chickens Korea.

Jae-Young Oh, Min-Su Kang, Byung-Ki An, Eun-Gyung Shin, Mi-Jin Kim, Young-Jong Kim, and Yong-Kuk Kwon, *Avian Disease Division, Animal, Plant and Fisheries Quarantine and Inspection Agency, Anyang, Gyeonggi, Republic of Korea.*

Isolation and Characterization of Bacteriophages for *Salmonella gallinarum*.

Haan-Woo Sung, Minjeong Kim, JinHwa Lee, HyukMoo Kwon, *Kangwon National University, Chuncheon, Republic of Korea.*

Molecular Analysis of *Salmonella enteritidis* Associated with Peritonitis in Laying Hens.

Catherine M. Logue, Melika Budimlic, Timothy S. Frana, Darrell W Trampel, *Iowa State University, Ames, IA.*

Evaluation of Inactivated Oil-Adjuvant Vaccine Against *Riemerella anatipestifer* Serotype 1 and 7 Field Isolates.

Jong-Bo Shim, Ho-Keun Won, Mi-Jeong Han and In-Pil Mo, *Choongang Vaccine Laboratories, Daejeon, Republic of Korea.*

Survey of Infectious *Coryza* and MG/MS Coinfection in Avian Species.

Lanqing Li, Alicia Wise, Michael R. Luther, Allan Fulmar, and Frederic J. Hoerr, *Alabama Department of Agriculture and Industries, Thompson Bishop Sparks State Diagnostic Laboratory, Auburn, AL.*

Virulence of NAD-Independent, Serovar C-1 of *Avibacterium paragallinarum* from Mexico.

Vladimir Morales-Erasto, H. H. Trujillo-Ruiz, A. García-Sánchez, F. Salazar-García, M. Talavera-Rojas, E. Soriano-Varga, *Centro De Investigación Y Estudios Avanzados En Salud Animal, FMVZ, UAEM, Toluca, México.*

The Complete Genome Sequence and Genetic Analysis of ϕ ICA82 a Novel Uncultured Microphage from the Turkey Gastrointestinal System.

Laszlo Zsak, J. Michael Day, Brian B. Oakley and Bruce S. Seal, *Southeast Poultry Research Laboratory, Agricultural Research Service, United States Department of Agriculture, Athens, GA.*

Clostridium

Efficacy Evaluation of 4 Different *C. perfringens* Recombinant Antigens Plus Montanide™ ISA 71 VG for Immunization Against Necrotic Enteritis in Broiler Chickens.

Juliette Ben Arous, Seung I. Jang, Hyun S. Lillehoj, Sung Hyen Lee, Kyung Woo Lee, Francois Bertrand, Laurent Dupuis, Sebastien Deville, Dong-Jun An, Wooseog Jeong, Ji-Eun Chun, *Seppic, Puteaux, France.*

Gene Expression Analysis of Host Immune Responses in Broiler Chickens with Gangrenous Dermatitis.

Hyun S. Lillehoj, Duk Kyung Kim, Kyung Woo Lee, and Gregory R. Siragusa, *Animal Parasitic Diseases Laboratory, ANRI, USDA-ARS, Beltsville, MD.*

Clostridium continued

Molecular Characterization of Podoviridae Bacteriophages Virulent for *Clostridium perfringens* and Comparison of Their Predicted Lytic Proteins.

Bruce S. Seal, Nikolay V. Volozhantsev, Brian B. Oakley, Cesar A. Morales, Johnna K. Garrish, Edward A. Svetoch, Gregory R. Siragusa, *Poultry Microbiological Safety Research Unit, Agricultural Research Service, USDA, Athens, GA.*

Coccidia

Clinical and Pathological Effects of *Eimeria maxima* Infection in Chickens.

Joan Schrader, Charlie Broussard, Steve Fitz-Coy, Deborah Higuchi, Steve Davis and Terri Wasmoen, *Merck Animal Health-Research & Development, Elkhorn, NE.*

Diagnostics

A Comparison of USDA Licensed MG/MS ELISA Kits from Three Manufacturers.

Brenda P. Glidewell, Drew W. Carter, Dr. Louise Dufour-Zavala, *Georgia Poultry Laboratory Network, Oakwood, GA.*

Early Detection of Avian Pathogens using Multiplexed Fluorometric Immunoassay (MFIA™) in Specific Pathogen Free (SPF) flocks.

Nastassja Ortega-Heinly, Theodore Girshick, *Charles River, Storrs, CT.*

Serological Surveillance to *Mycoplasma synoviae*, Avian Influenza, Avian Paramyxovirus Type 1 (PMVA - 1) and Avian Metapneumovirus in Backyard Turkeys Around Lima.

Rosa González, Eliana Icochea, Pablo Reyna, Jhon Guzman, *College of Veterinary Medicine, University of San Marcos, Lima, Peru.*

Food Safety

Comparison of *Campylobacter* spp. Subtypes Recovered from Integrated Broiler Production and Processing Operations.

Kelli L. Hiett, Cesar A. Morales, J. Eric Line, R. Jeff Buhr, and Bruce S. Seal, *USDA ARS Poultry Microbiological Safety Research Unit, Athens, GA.*

Application of Bacteriophages for Control of Foodborne Salmonellosis at Chicken Slaughterhouse.

Byoung-Yoon Kim, Dong-Hun Lee, Myeong-Seob Kim, Jun-Hyuk Jang, Yu-Na Lee, Jae-Keun Park, Seong-Su Yuk, Joong-Bok Lee, Seung-Yong Park, In-Soo Choi, and Chang-Seon Song, *Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University, Seoul, Republic of Korea.*

Detection of Antibodies Against *Salmonella* Minnesota by Plate Agglutination Test.

Maria P. Vejarano, Luiz Sesti, Edson Savano, Jorge Pimentel, Jorge L. Chacón, *Ceva, Campinas, Brazil.*

Emergence of a Monophasic *Salmonella* (8,20:-:z6) in Georgia Poultry.

Selena York, *Georgia Poultry Laboratory Network, Oakwood, GA.*

Estimation of the Prevalence of *Salmonella* Species on the Slatted Area Compared to the Scratch Area of Broiler Breeder Chicken Houses.

Elena Behnke, Charles Hofacre, Roy Berghaus, *Centurion Poultry, Inc., Lexington, GA.*

Genetic and Phenotypic Characterization of *Salmonella* Enteritidis Isolated From Commercial Broiler Processing in NE Georgia.

Karen A. Liljebjelke, John A. Cason, Kimberley D. Ingram, Rufus Clinkscales III, Arthur Hinton Jr, *Faculty of Veterinary Medicine, University of Calgary, Alberta, Canada.*

Genetic Relatedness of *Salmonella* Enteritidis Isolated from Poultry House Environment and Eggs.

Thomas N. Denagamage, Bhushan M. Jayarao, and Subhashinie Kariyawasam, *Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, University Park, PA.*

Fungus

Avian Aspergillosis In Six Weeks Old Commercial Layer Pullets: Case Report.

Rosmar V. Marcano Marti, Dorian L. Dominguez, Carmen T. Diaz, Elio Sogbe, Francisco Perozo, *Universidad Central De Venezuela. Veterinary College, Maracay, Venezuela.*

Immunology

Effect of Needle Length and Embryo Age on Vaccine Efficacy using an Experimental Vaccine Model.

Joan S. Schrader, Brooke M. Ledesma, Stephanie M. Cook, Mo Morsey, Terri Wasmoen, Gary Petersen, Linda R. Gergen *Biological Research & Development, Merck Animal Health, Summit, NJ.*

Infectious Bronchitis Virus

Comparing of Three Doses of a Commercial Vaccine against Infectious Bronchitis in Broilers Chickens.

Pablo Reyna, Eliana Icochea, Rosa González, Jhon Guzman, and Julio Alvan *College of Veterinary Medicine, University of San Marcos, Lima, Peru.*

Cytokine inducing Potential in Chicken Embryo Kidney Cells Following IB Virus Infection.

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

Detection of Avian Gammacoronaviruses in Wild Birds in the USA.

Jamie E. Phillips, D. E. Stallknecht, D. G. Mead, D. A. Hilt, M. W. Jackwood, *Department of Population Health, University of Georgia, Athens, GA.*

Further Examination of Genetic Basis for Distinct Behaviors of Different ArkDPI-derived Infectious Bronchitis Virus Vaccines.

Vicky L. van Santen, Eunice N. Ndegwa, Rodrigo A. Gallardo, Haroldo Toro, *Department of Pathobiology, College of Veterinary Medicine, Auburn University, AL.*

Infectious Bronchitis Virus Challenge Model using Diethylstilbestrol Treated Immature Hens.

Junhyuk Jang, Myeong-Seob Kim, Byoung-yoon Kim, Dong-Hun Lee, Yu-Na Lee, Jae-Keun Park, Seong-Su Yuk, Joong-Bok Lee, Seung-Yong Park, In-Soo Choi, Chang-Seon Song, *Avian Disease Laboratory, College of Veterinary Medicine, Konkuk University, Seoul, Republic of Korea.*

Molecular Characterization of Infectious Bronchitis Viruses Isolated in Korea.

Hyuk-Moo Kwon, Jae-Eun Song, Haan-Woo Sung, *Department of Veterinary Microbiology, College of Veterinary Medicine, Kangwon National University, Chuncheon, Republic of Korea.*

Mucosal Immunity Elicited by Recombinant Adenovirus Expressing IBV S1.

Rodrigo A. Gallardo, JianFeng Zhang, Francisca Arias, Cassandra J. Breedlove, Frederic W. van Ginkel, Haroldo Toro *Department of Pathobiology, Auburn University, College of Veterinary Medicine, Auburn, AL.*

Persistence of Ark-DPI Vaccine Virus in Broilers and Genetic Analysis of Virus Subpopulation.

Ha-Jung Roh, Deborah A. Hilt, Mark W. Jackwood, *The University of Georgia, Athens, GA.*

Site Direct Point Mutation of Infectious Bronchitis Virus S1 Protein reflect Different Hemagglutination Activity.

You Hsin Lin, Hui Wen Chen, Ching Ho Wang, *School of Veterinary Medicine, National Taiwan University, Taipei, Taiwan.*

Infectious Bronchitis Virus continued

Development and Field Evaluation of a Multiplex Real-Time RT-PCR Assay for Detecting Arkansas Infectious Bronchitis Virus.

Brian S. Ladman, Lauren A. Preskenis, Marcy Murphy, Miguel Ruano, Brenda F. Sample, Daniel A. Bautista, and Jack Gelb, Jr., *Avian Biosciences Center, Department of Animal and Food Sciences, University of Delaware, Newark, DE.*

Infectious Bursal Disease Virus

Infectious Bursal Disease Virus Large Segment Gene in Conjunction with Chicken Calreticulin Gene in DNA Vaccination Against Infectious Bursal Disease.

Ching Ching Wu, Ming Kun Hsieh, Tsung Wei Feng, Tsang Long Lin, *Department of Comparative Pathobiology, Purdue University, West Lafayette, IN.*

Infectious Bursal Disease Virus; Challenge Situation in Latin America 2011 (Field Study).

Maritza Tamayo, Taylor Barbosa, Liz Turpin, *Pfizer Animal Health Mexico City, México.*

Molecular Assessment of a Vector HVT-IBDV Vaccine (VAXXITEK® HVT+IBD) Intake After Hatchery Vaccination.

Francisco Perozo, Rafael Fernandez, Stephane Lemiere, *University of Zulia Veterinary College. Maracaibo, Zulia, Venezuela.*

Pathways of Fas/FasL and Perforin as Important Mechanisms of T Cell-Mediated Cytotoxicity in Infectious Bursal Disease Virus Infected Chickens.

Abdul Rauf, Mahesh Khatri, Maria V. Murgia and Yehia M. Saif, *The Ohio State University, Wooster, OH.*

Using the Analytical Hierarchy Process to Respond to an Outbreak of Very Virulent Infectious Bursal Disease in California.

Sirithorn Ratanapreukskul, Maurice Pitesky, Gregory Ramos, and Emi Saito, *University of California Davis, School of Veterinary Medicine, Davis, CA.*

Laryngotracheitis

A Recent Outbreak of Infectious Laryngotracheitis in Layer Chickens in Minas Gerais, Brazil.

Roselene Ecco, Ingrid S. Preis, Juliana V. Fortes, Nelson Rodrigo S. Martins,, Escola De Veterinaria, *Universidade Federal De Minas Gerais (UFMG). Belo Horizonte Minas Gerais, Brazil.*

A Serological Study of ILTV Using ELISA In Backyard and Commercial Chickens in Mississippi Prior to Vaccination.

Kelli H. Jones, Alejandro Banda, Gwenlyan Slacum, Mississippi State University, *College of Veterinary Medicine, Poultry Research And Diagnostic Laboratory, Pearl, MS.*

Attenuation of an ILTV Field Strain in Primary Tissue Culture and In Vivo Studies

Victor A. Palomino, Guillermo Zavala, Sunny Cheng, and Maricarmen Garcia, *The University of Georgia, Athens, GA.*

Comparative Efficacy and Duration of Immunity Study of Fowl Laryngotracheitis Vectored Vaccines in Commercial Layers.

Sandra C. Rosenberger, John K. Rosenberger, Milos Markis, Kristi Moore-Dorsey and Alecia Godoy, *Aviserve LLC, Newark, DE.*

Histomorphometric Studies of the Kinetics of Inflammatory Response of Tracheas to Vaccine Challenges or Natural Infections with Infectious Laryngotracheitis.

Floyd D. Wilson, Erin G. Riley, Armando Mirande, Philip A. Stayer and Alejandro Banda, *Poultry Research & Diagnostic Laboratory, College of Veterinary Medicine, Mississippi State University, Pearl, MS.*

Infectious laryngotracheitis virus (ILTV) Specific Glycoproteins ELISAs to Detect Sero-Conversion in Recombinant Viral Vector Vaccinated Chickens.

Maricarmen García, Melissa Martinez, Sylva M Riblet, Alice Mundt, Victor Palomino, Guillermo Zavala, *University of Georgia, Athens, GA.*

Laboratory Monitoring of Young Broiler Flocks During a Vaccinal Infectious Laryngotracheitis Outbreak.

Danny L. Magee, Alejandro Banda, Floyd D. Wilson, *Mississippi State University College of Veterinary Medicine, Poultry Research & Diagnostic Lab, Pearl, MS.*

Metapneumovirus

Local Mucosal Immune Responses in Turkeys Following Exposure to Avian Metapneumovirus Subtype C (aMPV/C).

Ra Mi Cha, Mahesh Khatri, Jagdev M. Sharma and Laszlo Zsak, *SEPRL, ARS, USDA, Athens, GA.*

Retrospective Serological Survey against Avian Metapneumovirus in Chickens during 2006-2011.

Jeom Ju Kim, Hae Rim Lee and In Pil, *Department of Veterinary Medicine, Graduate School, Chungbuk National University, Cheongju City, Chungbuk, Republic of Korea.*

Mycoplasma

Mycoplasma gallisepticum in Poultry and House Finches: Phylogeny and Evolution of Virulence.

David H. Ley, *Department of Population Health And Pathobiology, College of Veterinary Medicine, North Carolina State University, Raleigh, NC.*

Mycoplasma synoviae, More Independent Than You Think.

Victoria A. Laibinis, Naola M. Ferguson-Noel, *University of Georgia, Athens, GA.*

Newcastle Disease Virus

A Single Amino Acid Change Q114R in Cleavage Site Sequence of Newcastle Disease Virus Fusion Protein Attenuates Viral Replication and Pathogenicity.

Sweetie Samal, Sachin Kumar, Sunil K. Khattar, Siba K. Samal, *VA-MD Regional College of Veterinary Medicine, University of Maryland, College Park, MD.*

Clinical and Pathologic Characterization of West African Newcastle Disease Viruses.

Megan E.B. Jones, Giovanni Cattoli, Stivalis Cardenas Garcia, Patti J. Miller, Claudio L. Afonso, Corrie C. Brown, *Department of Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA.*

Monitoring the Vaccination with a rHVT-NDV Vectored Vaccine in Commercial Broilers through Serological Methods.

Vilmos Palya, Tímea Tatár-kis, Balázs Felföldi, Fernando Lozano, Yannick Gardin, *CEVA Animal Health, Lenexa, KS.*

Onset of Immunity in Commercial Turkeys Vaccinated with a Vectored Newcastle Vaccine.

Alecia Godoy, John K. Rosenberger, Sandra Rosenberger, Kristi Dorsey and John El-Attrache, *CEVA Biomune Company, Lenexa, KS.*

Parasitology

Reed Rumsey Award*

Field Treatment and Diagnostic Trials of *Hadjelia truncata* in Pigeons.

Julie M. Kelly*, C. Gabriel Senties-Cué, Bruce R. Charlton, Richard W. Gerhold, Tiffany J. Santoro, *California Animal Health And Food Safety Laboratory, University of California-Davis, Turlock, CA.*

Processing

Improved Carcass Yield Using Dimethylglycine (DMG)Taminizer-D®, in Broiler Production.

Ariel M. Ortiz, José T. Ortega-Sánchez, Juan G. del-Río, Miguel M. Carmona, Medero José A, *Facultad De Estudios Superiores-cuautitlan, UNAM, Mexico, México.*

Production

Can we Predict Biosecurity Compliance with Personality Traits?

Manon Racicot, Daniel Venne, André Durivage, Jean-Pierre Vaillancourt, *Canadian Food Inspection Agency, Montreal, Quebec, Canada.*

Epidemiological Analysis of Biosecurity Practices and Associated Prevalence of Diseases in Non-Commercial Poultry Flocks

Jennifer M. Madsen, Nathaniel L. Tablante, Jennifer Timmons, and Nick Zimmermann, *University of Maryland, College Park, MD.*

Effect of a Commercial Yeast Culture Feed Supplement in a Transport Stress/*Escherichia coli* Respiratory Challenge of Turkeys.

Geraldine R. Huff, W.E. Huff, S. Jalukar, J. Oppy, N.C. Rath, B. Packialakshmi, *Poultry Production And Product Safety Research Unit, ARS/USDA, University of Arkansas, Fayetteville, AR.*

The Case Studies of the Chickens with Specific Liver Lesions in the Layer Farms.

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

The Probiotic *Escherichia coli* Nissle 1917 Enhances Early Gastrointestinal Maturation in Young Turkey Poults.

Geraldine R. Huff, F. Solis de los Santos, W.E. Huff, N.C. Rath, M. Farnell, A.C. Fanatico, S.C. Ricke, J.R. Moyle, C. Enders, U. Sonnenborn, D.J. Donoghue, A.M. Donoghue, *Poultry Production And Product Safety Research Unit, ARS/USDA, University of Arkansas, Fayetteville, AR.*

Tumor Viruses

A Visceral Lymphoma Outbreak in Layer Breeders Previously Infected with Reticuloendotheliosis Virus Integrated into Fowlpox Virus.

Bonsang S. Koo, H. R. Lee, E. O. Jeon, H. S. Jang and I. P. Mo, *Avian Disease Laboratory, College of Veterinary Medicine, Chungbuk National University, Cheongju, Republic of Korea.*

Virology

Antigenic and Molecular Analysis of Avian Reoviruses Field Isolates.

Holly Sellers, Erich Linnemann, and Vanessa Gauthiersloan, *Poultry Diagnostic And Research Center, Department of Population Health, The University of Georgia, Athens, GA.*

In Vivo and in Vitro Characterization of Avian Neurotropic Reovirus.

Sunny Cheng and Guillermo Zavala, *Department of Population Health, Poultry Diagnostic And Research Center, The University of Georgia, Athens, GA.*

Diagnosis and Serological Characterization of Turkey Reovirus Field Strains in Pennsylvania.

Huaguang Lu and Patty Dunn, *Animal Diagnostic Laboratory, Department of Veterinary and Biomedical Sciences, Pennsylvania State University, University Park, PA.*

Effect of Coronavirus Infection on Reproductive Performance of Turkey Breeder Hens.

Chang Won Lee, Olusegun Awe, Maria Murgia, Abdul Rauf, Ahmed Ali, Yehia M. Saif, *Department of Food Animal Health Research Program, Ohio Agricultural Research And Development Center, The Ohio State University, Columbus, OH.*

Pathogenicity and Immunogenicity of High-Passage Turkey Coronavirus.

Tsang Long Lin, Yi-Ning Chen, Ching Ching Wu, Thomas Bryan, Tom Hooper, Donna Schrader, *Department of Comparative Pathobiology, Purdue University, West Lafayette, IN.*

Evidence of Infection and Molecular Characterization of Avian Hepatitis E Viruses in Chickens from Korea.

Hyuk-Moo Kwon, Haan-Woo Sung, Jae-Eun Song, Ga-Eun Ham, *Department of Veterinary Microbiology, College of Veterinary Medicine, Kangwon National University, Chuncheon, Gangwon, Republic of Korea.*

Molecular Characterization of the Chicken Anemia Virus Isolated from Broiler and Broiler Breeder Chickens in Alabama.

Lanqing Li, Michael R. Luther, Alicia Wise, Frederic J. Hoerr, *Alabama Department of Agriculture And Industries, Thompson Bishop Sparks State Diagnostic Laboratory, Auburn, AL.*

Use of a Novel RT-PCR Assay to Detect Picobirnavirus in Poultry Intestinal Samples Collected from the Field.

James Michael Day, Laura W. Ferguson, Laszlo Zsak, *Southeast Poultry Research Laboratory, USDA/ARS, Athens, GA.*

Virus Surveillance in Bobwhite Quails from the Rolling Plains of Texas and Oklahoma, USA.

Pamela J. Ferro, Owais Khan, Christine Vuong, Sanjay M. Reddy, Lloyd LaCoste, Dale Rollins, and Blanca Lupiani, *College of Veterinary Medicine & Biomedical Science, Texas A&M University, College Station, TX.*