- ► AAAP Symposium Animal Welfare: Reality, Perception & Thinking Outside the Box
- ► AAAP Scientific Program includes 116 oral presentations and 100 poster presentations

# Symposium & Scientific Program

THE AMERICAN ASSOCIATION OF AVIAN PATHOLOGISTS



Atlanta, GA August 1-4, 2010

### **AAAP Vision**

The American Association of Avian Pathologists strives to prevent and eliminate the suffering and loss of poultry due to disease, to assure a safe poultryassociated food supply and to develop and use cutting edge, science-based techniques to meet these goals through education of current and future scientists.



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Bruce Stewart-Brown Past President 2010 The American Association of Avian Pathologists (AAAP) assures prevention and elimination of suffering and loss of poultry due to disease and the provision of a safe poultry-associated food supply through providing an open exchange of scientific and practical information. Veterinary and non-veterinary researchers, public, private and industry veterinarians, technicians, poultry company owners, industries supporting poultry production representatives, and flock managers are provided cutting edge science concerning the diagnosis, treatment and prevention of poultry disease as well as food safety and animal welfare through national and regional scientific meetings, text books, manuals, and pamphlets developed and authored by the AAAP membership. It is through this effort that the AAAP has received and continues to seek global recognition for this expertise.

Founded in 1957, The American Association of Avian Pathologist is a not-for-profit 501c (6) organization that is allied with the American Veterinary Medical Association

Bob Bevans-Kerr, Executive Director
Janece Bevans-Kerr, Director of Member Services

American Association of Avian Pathologists 12627 San Jose Blvd., Suite 202 Jacksonville, FL 32223-8638 904.425.5735 281.664.4744 (fax) aaap@aaap.info



## 2010 Annual Meeting



### August 1-4, 2010 Atlanta, GA Georgia World Congress Center

Sunday, August 1, 2010 7:30AM - 12:30PM

Animal Welfare Symposium: Reality, Perception &

Thinking Outside the Box

Georgia World Congress Center (GWCC), Room B313

Monday - Tuesday, August 2-3, 2010 8:00AM - 5:30PM **AAAP Scientific Program** GWCC, Rooms B312 & B313

Monday, August 2, 2010 10:00 - 10:30AM Keynote Speaker, Dr. Christine Hoang

Is the Sky Falling? Current and Future Challenges in Poultry Medicine

GWCC, Room B313

Monday, August 2, 2010 12:15PM - 2:45PM AAAP Awards Luncheon

The Omni Hotel @ the CNN Center, Dogwood Room

Tuesday, August 3, 2010 8:15AM - 8:30AM

Reed Rumsey Award Winner: Natalie K. Armour

Evaluation of the Pathogenicity and Transmissability of Two Recent Mycoplasma synoviae Isolates from Arkansas GWCC, Rooms B313

Tuesday, August 3, 2010 10:00 - 10:30AM

Lasher-Eckroade History Lecture, Dr. David Espeseth

Historical Data on Establishing Regulatory Oversight of
Poultry Vaccines

GWCC, Room B313

2010

Tuesday, August 3, 2010 10:30AM - 12:00PM **AAAP Business Meeting**GWCC, Room B313

Tuesday, August 3, 2010 2:00PM - 2:15PM

Richard B. Rimler Memorial Paper: Chasity M. Cox

The Effects of Dietary <sup>2</sup>-Glucan Supplementation on Performance and Immune Response of Broiler Chicks during an Eimeria Challenge

GWCC, Rooms B312

Tuesday, August 3, 2010 3:30PM - 3:45PM

Richard B. Rimler Memorial Paper: Milos Markis

Feather Tip Monitoring of Marek's Disease Virus in Experimental and Commercial Settings

GWCC, Rooms B313

Tuesday, August 3, 2010 4:30PM - 4:45PM

Reed Rumsey Award Winner: Payvand Parvizi

Regulatory T Cell Marker Expression in Splenic CD4+ and

CD8+ T Cell Subsets of Chickens Infected with Marek's

Disease Virus (MDV)

GWCC, Rooms B313

Wednesday, August 4, 2010 8:00 - 12:00PM

AAAP Scientific Program (continuation)

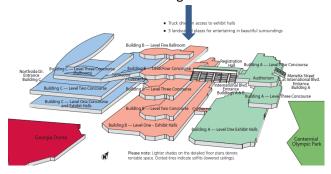
Omni Hotel @ the CNN Center, International Ballrooms

D&E

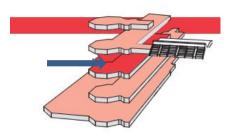
Dwight Schwartz Travel Award Winner: Travis Schaal An Alternative to the Traditional "Poultry Pathologist" -Veterinary Careers through the USDA Food Safety Inspection Service GWCCC, Room B314

#### The Georgia World Congress Center

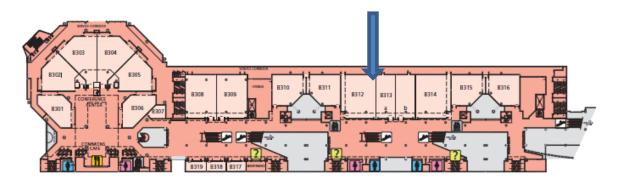
#### We are in the Center Building of the GWCC



#### On the Third Floor



#### In Rooms B312 & B313



### **AAAP Committee/Affiliated Groups Meetings**

TIME	Meeting Name	Contact Person	Room #
	Friday July 30, 2010		
7:00am-5:00pm	AAAP Board of Directors Meeting	Janece Bevans-Kerr	Dogwood B
	Saturday July 31, 2010		
7:00am-12:00pm	AAAP Foundation Board Meeting	Janece Bevans-Kerr	Dogwood B
1:00pm-5:00pm	AAAP Board of Directors Meeting	Janece Bevans-Kerr	Dogwood B
7:00am-8:00pm	ACPV Exam	Janece Bevans-Kerr	Chestnut
7:00am-8:00pm	ACPV Exam #2	Janece Bevans-Kerr	Hickory
7:00am-10:00pm	ACPV Exam #3 - (Exam Grading Room)	Janece Bevans-Kerr	Walnut
8:00am-4:00pm	Association of Veterinarians in Broiler Production	Phil Stayer	Dogwood A
7:00am-9:00am	AVBP Breakfast c/o Merial	David Smith/Anita Strange	Cottonwood A
12:00pm-1:00pm	AVBP Lunch	Tim Davis	Cottonwood B
10:30am-5:00pm	Association of Veterinarians in Turkey Production	Steven Clark	Ballroom A
1:00pm-4:00pm	Histopathology/Case Report Interest Group	H.L. Shivaprasad	Redwood
<u> </u>	Sunday August 1, 2010		
6:30-am7:30 am	AVMA Representatives Group	Y.M. Saif	Cypress
6:30am-7:30am	Georgia MAM Alumni Breakfast	Karen Grogan	Dogwood B
7:00am- 7:30am	New AAAP Member Reception	Andres Montoya	Poster Room
11:30am-1:30pm	Association of Primary Poultry Breeder Veterinarians	Eric Jensen	Cottonwood A
1:00pm-2:00pm	Awards Committee	Darrell Kapczynski	Cypress
1:00pm-2:00pm	Drugs & Therapeutics Committee	Hector Cervantes	Juniper
1:00pm-2:00pm	Electronic Information Committee	Ton Schat	Magnolia
1:00pm-2:00pm	Food Safety Committee	Marty Ewing	Ballroom A
1:00pm-2:00pm	Avian Diseases Manual Editorial Board	Martine Boulianne	Beechnut
1:00pm-2:00pm	Diseases of Poultry Editorial Board	David Swayne	Pecan
2:00pm-3:00pm	Biologics Committee	Charlie Broussard	Walnut
2:00pm-3:00pm	Diseases of Public Health Significance Committee	Bruce Stewart-Brown	Chestnut
2:00pm-3:00pm	Education Committee	Isabel Gimeno	Sycamore
2:00pm-3:00pm	Isolation, Identification Manual Editorial Board	Louise Dufour-Zavala	Hazelnut
2:00pm-3:00pm	Preceptorship Committee	Steve Roney	Intl Ballroom C
2:00pm-3:30pm	Tumor Virus Committee	Gregorio Rosales	Hickory
2:00pm-4:00pm	Animal Welfare Committee	Kristi Scott	Redwood
3:00pm-4:00pm	Emergency Disease Management Committee	Bruce Stewart-Brown	Cottonwood A
3:00pm-4:00pm	Membership Committee	Andres Montoya	Cottonwood B
3:00pm-4:00pm	Research Priorities Committee	John Smith	Cypress
3:00pm-5:00pm	Respiratory Diseases Committee	Maricarmen Garcia	Dogwood A
4:00pm-5:00pm	Enteric Diseases Committee	Eric Jensen	Ballroom A
4:00pm-5:00pm	Epidemiology Committee	Suzanne Dougherty	Beechnut
4:00pm-5:00pm	History Committee	John Dunn	Hazelnut
4:00pm-5:00pm	TIME Committee	Mariano Salem	Walnut
6:00pm-7:00pm	Univ. of Minnesota Center For Animal Health and Food Safety	Brendan Lee	Ballroom A
	Monday, August 2, 2010	<u> </u>	
6:00am-8:00am	Association of Veterinarians in Egg Production	Eric Gingerich	Dogwood B
7:00am-8:00 am	Avian Diseases Editorial Board	Jagdev Sharma	Dogwood A
7:00am-11:00am	ACPV Board of Governors Meeting	Janece Bevans-Kerr	Redwood
12:15pm-2:45pm	AAAP Awards Luncheon	Janece Bevans-Kerr	Dogwood
7:30pm-11:00pm	NC State University Poultry Health Management	David Ley	Redwood
	Tuesday, August 3, 2010		
7:00am-9:00am	ACPV Reception/Annual Meeting	Janece Bevans-Kerr	Dogwood A
12:30pm-2:00pm	AAAP Past Presidents Luncheon	Janece Bevans-Kerr	Cottonwood A
10:30am-Noon	AAAP Business Meeting (Convention Center)	Janece Bevans-Kerr	B313
	Wednesday, August 4, 2010		
7:00am-Noon	AAAP Board of Directors Meeting	Janece Bevans-Kerr	Redwood
	<u> </u>		1

## AAAP Symposium Animal Welfare: Reality, Perception & Thinking Outside the Box

#### Sunday, August 1, 2010 (7:30AM - 12:30PM)

7:30 – 7:45 AM	Welcome and Introduction – Dr. Helen Wojcinski, Hendrix Genetics
7:45 – 8:25 AM	Consumers, Industry and Animal Welfare – <i>Dr. Wes Jamison, Associate Professor of Communication, Palm Beach Atlantic University</i>
8:25 – 8:50 AM	Animal Welfare Experiences and Lessons Learned – <i>Dr. Bernie Beckman, Director of Technical Service, Hy-Line North America</i>
8:50 – 9:15 AM	Animal Welfare Experiences and Lessons Learned – <i>Dr. Bob Edson, Vice President of Operations, Aviagen Turkeys, Inc.</i>
9:15 – 9:40 AM	Perspective from the Cattle Industries – Dr. Mike Siemens, Cargill Beef
9:40 – 10:05 AM	Perspective from the Swine Industries – <i>Dr. Scanlon Daniels, Circle H Headquarters, LLC</i>
10:05 – 10:25 AM	Break
10:05 – 10:25 AM 10:25 – 10:50 AM	Break Poultry Welfare Auditing & Current Issues – <i>Dr. David Hermes, Perdue Farms</i>
10:25 – 10:50 AM	Poultry Welfare Auditing & Current Issues – <i>Dr. David Hermes, Perdue Farms</i> Research & Science – One View on the Human-Animal Relationship as Examined
10:25 – 10:50 AM 10:50 – 11:15 AM	Poultry Welfare Auditing & Current Issues – <i>Dr. David Hermes, Perdue Farms</i> Research & Science – One View on the Human-Animal Relationship as Examined on Laying Hen Welfare – <i>Dr. Michael Lilburn, The Ohio State University</i> Public Relations - What, How and When to Convey Your Thoughts on Animal Welfare – <i>Mr. Mike Bumgarner, VP, Center for Food and Animal Issues, Ohio Farm Bureau Federation; and Hilary Thesmar, Senior Director, Scientific and Regulatory Affairs,</i>



### Monday, August 2, 2010



	Room B312	Room B314
Moderator	Suzanne Y. Dougherty	Julie Helm
8:00 AM	<b>Lymphoid Leukosis in a Broiler Breeder Flock</b> H. John Barnes, Isabel M. Gimeno, Oscar J. Fletcher, John T. Brake, Michael P. Martin	Differences in Replication and Adaptation of Low Pathogenic Avian Influenza Viruses (LPAIV) to Tracheal Organ Cultures from Pekin Duck, Turkey and Homing Pigeon Silke Rautenschlein, Henning Petersen, Mikhail N. Matrosovich, Stephan Pleschka
8:15 AM	Egg Production Loss in Turkey Breeders Mark E. Blakley	Shore-Bird Origin Low Pathogenicity H7 Avian Influenza Virus Differs in Its Replication in Ducks vs. Land-Based Poultry J. Gelb, Jr., L. A. Preskenis, B. S. Ladman, E. Spackman, C. R. Pope
8:30 AM	Aspergillosis in Broiler Breeders Like You've Never Seen Tim Cummings, Floyd Wilson, Danny Magee, SueAnn Hubbard	Evidence of Partial Immunity to H5N1 Highly Pathogenic Avian Influenza Virus Infection in Wood Ducks (Aix Sponsa) Pre-Exposed to Low Pathogenic Avian Influenza Viruses  Taiana P Costa, Justin D Brown, Elizabeth W Howerth, David E Swayne, David E Stallknecht
8:45 AM	Extreme Mortality in a Flock of Broiler Breeder Hens Exposed to Narasin Joel L. Cline, John F. Roberts, Susan B. Lockaby, Sandra E. Mann, Frederic J. Hoerr	Field Evidence of Neuraminidase Stalk Deletion During Transmission of Influenza A Virus (H6N1) from Duck to Turkeys Jean-Luc Guerin, Sebastien Soubies, Guillaume Croville, Chris- telle Volmer, Romain Volmer
9:00 AM	A Case of Pulmonary Hemorrhage Caused by a Staphylococcus aureus in Broiler Breeder Pullets Darko Mitevski, Jenny Fricke, Tom Inglis	Characterization of an Avian Influenza Virus PB2 Mutant of A/duck/PA/1969 (H6N1) Generated by Reverse Genetics  Lauren Gay, Egbert Mundt
9:15 AM	Investigating Causes of Excessive Urate Production in Broiler Breeder Hens Associated with Peritonitis and Cannibalism Mortality  Bradley J. Turner, Robert Wideman, Fred Hoerr, Stephen Collett, Jeff Courtney, Scott Westall, Suzanne Young, Marshall Putnam	Identification of a Dual Specific T Cell Epitope of the Haemagglutinin (HA) Antigen of Avian Influenza Virus H5 Subtype in Chickens Shayn Sharif, Hamid R. Haghighi, Leah R. Read, Sm. Mansour Haeryfar, Shahriar Behboudi
9:30 AM	Bri	eak
Moderator	Richai	rd Chin
10:00 AM	Keynote Speaker: Is the Sky Falling? Current and Future Challenges in Poultry Medicine  Room 313  Dr. Christine Hoang	
Moderator	Sam Christenberry	Dan Karunakaran
10:30 AM	Incubation Conditions Affect Tendon Development in Broilers Edgar O. Oviedo-Rondón, Jaroslava Halper, Mike J. Wineland, Peter Ferket, Joshua Cummock, Abel Kusovschi	AIV H1N1 DNA Vaccine Induced Humoral and Cell-Mediated Immunity in SPF Chickens J. J. Giambrone, S. C. Ou, N. K. Singh, H. Wu, K. S-Gunn, S. R. Singh
10:45 AM	Bloody Vents Associated with Cloacitis in Broiler Breeder Flocks: Part I: Field Investigations, Clinical Description and Epidemiology Michael P. Martin, Oscar J. Fletcher, David H. Ley, Rosemary A. Marusak, Kabel M. Robbins, H. John Barnes	Characterization and Efficacy Determination of Commercially Available Central American H5N2 Avian Influenza Vaccines for Poultry Dawn Eggert, David Swayne
11:00 AM	Bloody Vents Associated with Cloacitis in Broiler Breeder Flocks II. Histopathology and Other Diagnostic Tests Oscar J. Fletcher, Michael Martin, H. John Barnes, David H. Ley, Rosemary Marusak, Kabel Robbins	Generation of Non-Pathogenic Asian Lineage High Growth H5N1 Influenza Virus Strains Using Reverse Genetics for Production of Poultry Vaccines and Diagnostic Antigens Samadhan Jadhao, David Swayne, David Suarez
11:15 AM	What is Your Diagnosis? An Unusual Broiler Disease in South Mississippi Mark Burleson, Phil Stayer	Pathogenesis of Avian Influenza Virus Infection in Chickens and Ducks Using Reverse Genetics Generated A/VN/1203/04 with Lysine or Glutamate at PB2 Amino Acid 627 Karel A. Schat, John Bingham, Sue Lowther, Ruben Donis, Li-Mei Chen, Jeff Butler, Jessica Klippel, Tim Hancock, Dayna Johnson, Rachel Robinson, John Lowenthal

### Monday, August 2, 2010 (continued)

	Poom P312	Poom P21/
	Room B312 Clinical Pathology and Pathological Findings in Cyanotic	Room B314
11:30 AM	Broiler Breeder Males (Purple Head Males)  Danny L. Magee, Kelli H. Jones, Floyd D. Wilson, Erica D. Baravik,  Lanny W. Pace	Passive Antibody Transfer in Chickens to Model Maternal Antibody after Avian Influenza Vaccination Olivia T. Bowen, Carlos Estevez, Qingzhong Yu, David L. Suarez
11:45 AM	Phenotypic Analysis of Enterococcus cecorum Field Isolates Associated with Vertebral Osteoarthritis Kabel Robbins, Rosemary Marusak, Michael Martin, Luke Borst, H. John Barnes	Influenza Infection in European Starlings Chang-Won Lee, Zhuoming Qin, Teresa Clement, Leyi Wang, Mahesh Khatri, Yan Zhang, Jeffrey T. LeJeune
12:15 AM	served at	uncheon Lunch 12:30 PM m, Omni Hotel
Moderator	Donna Kelly	Holly Sellers
3:00 PM	Role of Ornithobacterium rhinotracheale in Causing Peritonitis in Egg Laying Chickens Kakambi V. Nagaraja, D.A. Halvorson, Anil J. Thachil	Differences in Innate Immune Responses to H5N1 Highly Pathogenic Avian Influenza Virus Infection between Pekin, Muscovy and Mallard Ducks Caran Cagle, Jamie Wasilenko, Mary Pantin-Jackwood
3:15 PM	Increasing the Gene Pool to Understand APEC Pathogenesis Kelly A Tivendale, Paul M Mangiamele, Lisa K Nolan	Avian Influenza Vaccination with Non-Replicating Adenovirus Vector: Assessment of Protection after either Mucosal Delivery or Decreasing Dose Applied by the In Ovo Route Haroldo Toro, De-chu C. Tang, David L. Suarez, Frederik W. van Ginkel
3:30 PM	Fertile vs Infertile Contaminated Eggs Sue A. Hubbard	Determination of Survivability of Avian Influenza (AI) Viruses in Different Types of Poultry Litter Aline P.R. Reis, Casey W. Ritz, David E. Stallknecht, Maricarmen Garcia
3:45 PM	Improved Isolation of Salmonella from Poultry Samples Using Modified Semisolid Rappaport Vassialidis (MSRV) W. Douglas Waltman	10 Years of Avian Influenza Control in the New York Live Bird Markets Susan C. Trock, John P. Huntley
4:00 PM	Comparison of Multiple Arizonae Isolates from Amphibian, Reptile, Mammal, and Avian Species in Proximity of a Poultry Flock Diagnosed with Arizonosis  Douglas A Anderson	Biosecurity and Highly Pathogenic Avian Influenza Outbreak Response Training in Transnistria and Egypt Richard M. Fulton
4:15 PM	Examination of the Salmonella Risk Posed By Rodent Activity  Katherine N. Hayes, A. Gregorio Rosales, Eric L. Jensen, Phillip B. Eidson, Carolyn L. Miller	Infectious Bronchitis Virus Heat-Shock Attenuation of the GA08 Strain and Efficacy Testing in Broilers Mark W. Jackwood, Deborah A. Hilt, Holly S. Sellers, Susan M. Williams, Hiram N. Lasher
4:30 PM	The Impact of Salmonella Vaccination Program on Salmonella Transmission and Chicken Carcass Contamination in Commercial Poultry Integrators Fernanda Dórea, Dana Cole, Charles Hofacre, Demetrius Mathis, Katherine Zamperini, John Maurer	Specific Immune Responses Associated with Viral Subpopulations Selected in Chickens after Vaccination with Ark-Type Infectious Bronchitis Vaccines Eunice N. Ndegwa, Vicky L. van Santen
4:45 PM	In-vitro and In-vivo Differential Expression of Cytokines and Histological Changes following Salmonella Infections in Poultry Ahmed M Setta, Michael A Jones, Paul A Barrow	Development of a Type-Specific Blocking ELISA for the Detection of Infectious Bronchitis Virus Antibody Hui-Wen Chen, Ivan-Chen Cheng, Ching-Ho Wang
5:00 PM	The Relationship between the Numbers of Salmonella Enteritidis, S. Heidelberg, or S. Hadar Colonizing Reproductive Tissues of Experimentally Infected Laying Hens and Deposition Inside Eggs Richard K. Gast, Rupa Guraya, Jean Guard, Peter S. Holt	Pathological and Immunological Features after the Inoculation of Cockerels With a Variant Strain of IBV Laura Y B Villarreal, Sjaak De Wit, Marcelo Beletti, Breno C B Beirao, Leonardo J Richtzenhain, Paulo E Brandao
5:15 PM	Is Horizontal Gene Transfer Implicated in the Emergence of Salmonella enterica serovar Kentucky among Poultry? Timothy Johnson, Jessica L. Thorsness, Randall S. Singer, Adam L. Stell	Effects of CAV and/or IBDV on IBV Replication and Phenotypic Drift Rodrigo A. Gallardo, Vicky L. van Santen, Haroldo Toro
5:30 PM	Adjourn	



### Tuesday, August 3, 2010



	Room B312	Room B314
Moderator	Elleen Katigbak	Scott Gustin
8:00 AM	Protection of Broiler Chickens against Infectious Bursal Disease by DNA Vaccination in the Face of Maternally Derived Antibodies Ching Ching Wu, Mingkun Hsieh, Tsang Long Lin	Evaluation of Mycoplasma synoviae Challenge Methodologies Naola Ferguson-Noel, Victoria Laibinis
8:15 AM	Efficacy of IBDV Vaccination Programs in Breeders: Seroconversion and Progeny Challenge Studies Enrique Montiel, Nikki Pitchard, Julio Cruz, Elleen Katigbak	REED RUMSEY AWARD: Evaluation of the Pathogenicity and Transmissability of Two Recent Mycoplasma synoviae Isolates from Arkansas Natalie K. Armour, Naola Ferguson-Noel, Scott J. Gustin, Stephen R. Collett
8:30 AM	Vaccination of Specific Pathogen Free Chicks with Live Commercial Infectious Bursal Disease Virus Vaccines M. Q. Al-Natour, M.K. Hassan, Y. M. Saif	<b>Avian Mycoplasma Genotyping by Pyrosequencing</b> Ziv Raviv, Amy Wetzel
8:45 AM	Interference between Different HVT-Vectored Vaccines Applied Subcutaneously at Day-Old in Commercial Broilers Vilmos J. Palya, Timea Tatar-Kis, Tamas Mato, Yannick Gardin	Differentiation of Avianpox Viruses by PCR Amplification of Specific Genes Deoki N. Tripathy, Bahaa A. Fadl-Alla
9:00 AM	Field Investigations using an rHVT-IBD Vaccine in U.S.  Broilers  Yannick Gardin, Vilmos Palya, Tamas Mato, Timea Tatar-Kis, Roberto Soares, Branko Alva, Christophe Cazaban, Sylvain Comte, Fernando Lozano, Zoltan Penzes, Kristi Moore Dorsey	Description and Analysis of an Outbreak of Vaccinal Laryngotracheitis in Broilers Louise Dufour-Zavala
9:15 AM	Vaccination against Chicken Infectious Anemia Virus in Broiler Breeders Using Inactivated Reovirus/Infectious Bur- sal Disease Vaccines and Aluminum Hydroxide as Adjuvants William A. Parker, Guillermo Zavala, Taylor Barbosa	Prevalence of ILT and Control Measures in Latin America Fernando Lozano, Yannick Gardin, Maricarmen Garcia, Pascal Paulet
9:30 AM	Bro	eak
Moderator	John Smith	
10:00 AM	Lasher-Eckroade History Lecture: <b>Historical Data on Establishing Regulatory Oversight of Poultry Vaccines</b> Room B313 Dr. David Espeseth	
10:30 AM	AAAP Business Meeting Room	
12:00 PM	Lunch	Break
Moderator	Nancy Reimers	Ben Johnson
1:00 PM	Molecular Comparative Analysis of Some Egyptian IBDV Field and Vaccinal Strains Ashraf M. Metwally, Ausama A. Yousif, Ismail M. Reda	Generation of a Glycoprotein J Deletion Mutant of Infectious Laryngotracheitis Virus (ILTV) as Potential Vaccine for a DIVA Approach Alice Mundt, Egbert Mundt, Maricarmen Garcia
1:15 PM	Identification of a Distinct Antigenic Subtype of Infectious Bursal Disease Virus by Molecular and Serological Methods Vijay Durairaj, Holly Sellers, Erich Linneman, Alan Icard, Egbert Mundt	Evaluation of the Protection Induced by Recombinant Infectious Laryngotracheitis Virus (ILTV) Vaccines in Broiler Chickens Ariel E. Vagnozzi, Sylva M Riblet, Guillermo Zavala, Maricarmen Garcia
1:30PM	Co-Infection of Variant and Very Virulent Infectious Bursal Disease Viruses in SPF Chickens Daral J. Jackwood, Susan E. Sommer-Wagner	Marek's Disease Virus as a Vectored Vaccine for Infectious  Laryngotracheitis and Marek's Disease  Robert F. Silva
1:45PM	Economic Impact of Variant IBD on Broiler Production in Saskatchewan, Canada Susantha Gomis, Tara Zachar, Tennille Knezacek, Robert Goodhope	Experimental Evaluation of In Ovo-Administered Virus- Vectored Laryngotracheitis Virus Vaccines for Prevention of Disease in Broiler Chickens James S. Guy, Isabel Gimeno, Melissa West

### Tuesday, August 3, 2010

	Room B312	Room B314
2:00 PM	RICHARD B. RIMLER MEMORIAL PAPER AWARD:  The Effects of Dietary <sup>2</sup> -Glucan Supplementation on Performance and Immune Response of Broiler Chicks during an Eimeria Challenge Chasity M. Cox, Lindsay H. Stuard, Sungwon Kim, Mike Bedford, Audrey P. McElroy, Rami A. Dalloul	Detection and Identification of ILT Virus with Immunofluorescence Microscopy Reynaldo S. Resurreccion
2:15 PM	Monitoring of Inflammation Induced by Subclinical Experimental Coccidiosis in Chicken or Turkey Using Plasma Protein Electrophoresis Charles Facon, Jean-Michel Reperant, Martine Germain, Jean- Luc Guerin	Investigation of Incubation Period, Shedding, and Immune Response of Commercial Broiler Chickens to the CEO Vaccine and USDA Reference Strains of Infectious Laryngotracheitis  Virus  Nathaniel L. Tablante, Kimberly Menendez
2:30 PM	Immuno-localization of Macrophage Inhibitory Factor (MIF) in Apicomplexan Parasites Eimeria tenella and Eimeria acervulina, as well as the Host Organism, the Chicken (Gallus gallus) Katarzyna B. Miska, Raymond H. Fetterer, Mark C. Jenkins, Sung- won Kim, Rami Dalloul	Persistence and Dissemination of Field Isolates and Vaccine Strains of Infectious Laryngotracheitis Virus in Vaccinated and Non-vaccinated Geographic Regions Jorge L. Chacón, Antonio P. Ferreira
2:45 PM	Tracking Strains of Eimeria maxima in Commercial Poultry Operations using Gene-specific Markers Mark C. Jenkins, Raymond Fetterer, Katarzyna Miska	Field Experiences with Recombinant HVT & ILT and TC Vaccination on Table Egg Pullets Hugo A. Medina
3:00 PM	Bre	eak
Moderator	Sara Steinlage	Andy McRee
3:30 PM	<b>Characterization of an Eimeria Specific Protein</b> R.H. Fetterer, R.S. Schwarz, K.B. Miska, M.C. Jenkins	RICHARD B. RIMLER MEMORIAL PAPER AWARD: Feather Tip Monitoring of Marek's Disease Virus in Experimental and Commercial Settings Milos Markis, John K. Rosenberger, Sandy Rosenberger, Grace Isaacs, Erin Bernberg, Grace Lagasse, Amy Anderson, Lisa Waidner, Joan Burnside, and Robin Morgan
3:45PM	Coccidiosis Exposure in Caged-Reared Layers and Immunization with Coccivac-D Linnea J. Newman, Mike Petrik, John Barta	Comparison of Blood and Feather Pulp Samples for the Diagnosis of Marek's Disease and for Monitoring Marek's Disease Vaccination by Real Time PCR Aneg L. Cortes, Enrique R. Montiel, Isabel M. Gimeno
4:00 PM	Comparison of Two Experimental Coccidiosis Vaccine Formulations When Administered to Commercial Broilers Raised in High or Low Clostridial Challenge Conditions: Growout and Performance Outcomes Jon L. Schaeffer, Keith A. Ameiss, G. Donald Ritter, Rebecca M. Poston	Effect of Marek's Disease Vaccines Dilution on the Outcome of Marek's Disease After Challenge with Highly Pathogenic Marek's Disease Viruses  Isabel M. Gimeno, Aneg L. Cortes, Enrique R. Montiel
4:15 PM	Comparison of the Performance of Broilers Given Either in Feed Anticoccidial Drugs or Vaccinated With a Commercial Anticoccidial Vaccine Robert L. Owen, Greg Mathis, Mark Lavorgna, James Skinner	Studies on Marek's Disease Virus Encoded Ribonucleotide Reductase Lucy F. Lee, Mohammad Heidari, Robert Silva, Sanjay M. Reddy
4:30 PM	Evaluation of the Impact of Amprolium Administration on Oocyst Cycling, Immunity Generation, and Performance in Coccidiosis Vaccinated Broiler Breeders Samantha K. Pohl, Jason T. Lee, Charles T. Broussard, Scott J. Gustin, Suzanne Y. Dougherty, Steve H. Fitz-Coy, David J. Caldwell	REED RUMSEY AWARD:  Regulatory T Cell Marker Expression in Splenic CD4+ and CD8+ T Cell Subsets of Chickens Infected with Marek's Disease Virus (MDV)  Payvand Parvizi, Katelyn Andrzejewski, Shayan Sharif
4:45 PM	Is There a Role of Coccidial Infection in the Incidence of Gangrenous Dermatitis in Broilers? Kenneth W. Bafundo, Hector M. Cervantes, Greg F. Mathis	Screening for Recombinant Avian Leukosis Viruses in Cell Cultures Inoculated with Various Subgroups of Virus Aly M. Fadly, Jody K. Mays, Henry D. Hunt
5:00 PM	<b>Lessons Learned from 15 Euthanasia Exercises</b> Martin A. Smeltzer, Louise Dufour-Zavala	Characterization of a Novel ALV-related Genome Isolated from Archived Chicken Bone Affected with Osteopetrosis Taylor Barbosa, Marcia Ramirez, Scott Hafner, Sunny Cheng, Guillermo Zavala
5:15 PM	Adio	purn



### Wednesday, August 4, 2010



	Omni Hotel Intl Ballroom D	Omni Hotel Intl Ballroom E
Moderator	Mark Lobstein	Dave Hermes
8:00 AM	Animal Agriculture Antibiotics: DANMAP Revisited Steven R. Clark, Jeremy Mathers	Establishment of Vaccine Candidates to Runting Stunting Syndrome of Chicken Using the Metagenomic Approach Taejoong Kim, Egbert Mundt
8:15 AM	Etiological Agents Associated with Condemned Livers of Broiler Chickens in Saskatchewan, Canada Keyvan Amini, Robert Goodhope, Susantha Gomis	The Histopathology and Other Diagnostic Findings of Runting Stunting Syndrome in Broilers Frederic J. Hoerr, Lanqing Li, Susan B. Lockaby, Tamara F. Kelly, Joel L. Cline, Samuel P. Christenberry
8:30 AM	<b>Listeria Control in Turkey Processing Facilities</b> Becky J. Tilley, Alice L. Johnson, Anita L. Colglazier	Reproduction of Runting Stunting Syndrome (RSS) in Broilers and Turkeys with Enteric Viruses Isolated from Commercial Broiler and Turkey Flocks John K. Rosenberger, Sandra C. Rosenberger, Toria Boon
8:45 AM	Real-Time PCR for Screening of Salmonella sp., Listeria monocytogenes, and Escherichia coli O157:H7 in Eggs Rocio Crespo, Dennis Schaberg, Syliva Weber, Fonda Gutierrez	Performance Data and Challenge Results of Progeny from Runting and Stunting Virus Vaccinated Breeders G. Thomas Holder, John K. Rosenberger
9:00 AM	Ileal and Cecal Microbial Populations in Broilers given Specific Essential Oil Blends and Probiotics in Two Consecutive Grow-outs E.O. Oviedo-Rondón, Michael E. Hume, N.A. Barbosa, N.K. Sakomura	Initial Identification, Detection, and Analysis of novel RNA viruses in the Turkey Gut Using a Metagenomic Approach  J. Michael Day, Laszlo Zsak
9:15 AM	Intestinal Characterization of Avian Defensin and Cytokines after the Early Administration of Probiotic with Organic Acids in Broilers  Juan C. Rodríguez-Lecompte, Jessica Brady, Gilberto Camelo-Jaimes, Shayan Sharif, Garry Crow, Bill Guenter, James House	Vaccination of Turkey Breeders to Protect Progeny from Runting and Stunting Syndrome David V. Rives, John K. Rosenberger
9:30 AM	Bre	eak
Moderator	Steve Collett	JoAnna Quinn
10:00 AM	Immunopathology and Local Cytokine Responses in Commercial Broiler Chickens with Gangrenous Dermatitis Hyun S. Lillehoj, Guangxing Li, Kyung W. Lee, Sung H. Lee, Seung I. Jang, Donald Ritter, Daniel A. Bautista, Gregory R. Siragusa	The Pathogenicity of Parvovirus in Chickens Laszlo Zsak, J. Michael Day
10:15 AM	Feed Additives Impact on Gangrenous Dermatitis in Broilers Philip A Stayer, Mark A Burleson, Jackson L McReynolds	Parvovirus-Associated Cerebellar Hypoplasia and Hydrocephalus in Day-Old Broiler Chickens Rosemary A. Marusak, James S. Guy, Tahseen A. Abdul-Aziz, Melissa A. West, Oscar J. Fletcher, J. Michael Day, Laszlo Zsak, H. John Barnes
10:30 AM	Development of a Successful Model Creating Clostridium Dermatitis in Turkeys using an Oral Challenge Model Stephen W. Davis	Development of a Real-Time PCR Test for the Detection of Turkey Parvoviruses in Fecal Samples Maria V. Murgia, Abdul Rauf, Y.M. Saif
10:45 AM	Comparison of Two Bacteriophage Derived Enzymes that Lyse Strains of Clostridium perfringens Bruce S. Seal, Mustafa Simmons, Gregory R. Siragusa , David M. Donovan	Genotypic Analysis of Selected Avian Adenovirus Isolates from Diagnostic and Monitoring Cases Arun B. Kulkarni, Reynaldo Resurreccion
11:00 AM	Quail Ulcerative Enteritis Vaccination with a Combination of Partially Attenuated Lower Intestinal and Cecal Coccidia Douglas A Anderson, Douglas Pennock	Avian Bornavirus: A Major Development in Avian Virology H. L. Shivaprasad, K. S. Honkavuori, T. Briese, W. I. Lipkin, I. Tizard
11:15AM	Investigations into Increased Incidence of Necrotic Enteritis (NE) when Using Coccidial Vaccines in a High Clostrididium perfringens (CP) Commercial Broiler Environment G. Donald Ritter	Newcastle Disease Virus VG/GA Strain In Ovo Vaccination for Commercial Broilers Francisco Perozo, Pedro Villegas, Rafael Fernandez, Rodriguez Meryner, Saume Elsy
11:30 AM	Efficacy of a Clostridium Perfringens Alpha Toxoid Vaccine In Breeder Hens for Providing Progeny Protection Against an On-Feed Challenge with Virulent C. Perfringens Type A Isolate Joan S. Schrader, Linda R. Gergen, Terri L. Wasmoen	Determination of the Full Length Sequence and Analysis of the Properties of an APMV-8 Wild Bird Isolate During Replication in Chickens and Ducks Egbert Mundt, Ashwini Warke, David Stallknecht, Susan M. Williams, Nikki Pritchard

#### Wednesday, August 4, 2010 (continued)

	Omni Hotel Intl Ballroom D	Omni Hotel Intl Ballroom E
11:45 AM	Evaluation of Genetic Resistance to Necrotic Enteritis in Chickens as Influenced by Major Histocompatibility Complex Lindsay H. Stuard, Vanessa Oakes, Chasity M. Cox, Sungwon Kim,	Levels of Humoral Antibodies Induced by Different Inactivated Vaccines Correlate with Egg Production in Commercial Layers Challenged with Virulent Newcastle Disease Virus Patti J. Miller, Leonardo Susta, Corrie C. Brown, Eduardo Lucio
	Frank W. Pierson, Paul B. Siegel, Rami A. Dalloul	Decanini, Angel E. Absalón, Claudio L. Afonso
12:00 PM	Adjourn	
Postor Socion		

## Poster Session August 1- August 3, 2010

**Room B313** 

#### **Avian Influenza**

### Isolation, Characterization and Inactivation of H1N1 Viruses from Wild Waterfowl

Teresa V. Dormitorio, Kejun Guo, Joseph J. Giambrone

Serologic Cross Reactivity of Avian Influenza H1 Vaccinated Commercial U.S. Turkeys to the Emergent H1N1 Influenza Virus Darrell R. Kapczynski, Eric Gonder, Becky Tilley, David L. Suarez, David E. Swayne

### **Avian Influenza H5N1 Natural Infection in Pet Birds**Ghada S. Moussa

### High-Throughput Pyrosequencing of Host Adapted H5N1 Low Path Avian Influenza Viral Genomes

Brian S. Ladman, Jack Gelb, Jr., Conrad Pope, Erica Spackman, Richard Slemons

### H5N1 Infection in Domestic and Free Living Water Fowl in Nile River Canals in Villages in Upper Egypt

Salah A. Mousa, Omar K. Amen

Jackwood

### Increased Virulence in Ducks of H5N1 Highly Pathogenic Avian Influenza Viruses from Egypt

Mary J. Pantin-Jackwood, Jamie L Wasilenko, David Suarez, David Swayne

## **Differences in Pathogenicity of A/Duck/Vietnam/201/05 H5N1 Highly Pathogenic Avian Influenza Virus Reassortants in Ducks**Jamie Wasilenko, Luciana Sarmento, Caran Cagle, Mary Pantin-

#### Characterization of H5N2 Influenza Viruses Isolated

Yanbing Li, Zhenhua Duan, Yi Zhang, Dequan Yang, Jianzhong Shi, Liling Liu, Guobin Tian, Xianying Zeng, Hualan Chen

### High Production Loss in Layers and Breeders and Heavy Mortality in Broilers Due To Combination of vvND and H9N2 AI in Iran

Seyed Mehdi Mirsalimi, Reza Tavayef

### Characterization of Avian Influenza Virus (H9N2) Isolated from Layer Farm in Korea

Seong-Hwan Byun, Chang-Hee Lee, In-Pil Mo

### Characterization of Recent H9N2 Avian Influenza Viruses Isolated From Chickens

Haan-Woo Sung, Ho-Jun Seo, Jin-Hwa Lee, Hyuk-Moo Kwon

### Immune Response to AIV H5N2 with Different Protocols of Vaccination

A. Garcia F., R. Salamanca, B. Carmona M., M.A. and C. Garcia V.O.

#### Experimental Studies with Homologous Subtype Avian Influenza Virus Vaccines Produced with Multiple Antigenically Different Seed Strains

Erica Spackman

#### Combined In Ovo-Vaccination with Non-Replicating Adenovirus-Vectored Avian Influenza and Marek's Disease Vaccines

Cassandra Breedlove, Frederik W. van Ginkel, De-chu C. Tang, Haroldo Toro

### Avian Influenza Vaccination with Non-Replicating Adenovirus Vector: Target Tissues in Chicken Embryo

Haroldo Toro, Minc, K., C. Bowman, D.C. Tang, J. Hathcock

## In Ovo-Vaccination with Non-Replicating Adenovirus-Vectored Avian Influenza: Maternal Immunity and Effects on Vaccination Alexander Mesonero, De-chu C. Tang, Haroldo Toro

## Inactivated H9N2 Avian Influenza Virus Vaccine with Gel-Primed and Mineral Oil-Boosted Regimen Could Produce Improved Immune Response in Chicken

Dong-Hun Lee, Hyun-Jeong Lee, Yu-Na Lee, Seung-Hwan Jeong, Tae-Hyun Lim, Ha-Na Youn, Myeong-Seob Kim, Won Hur, Joong-Bok Lee, Seung-Yong Park, In-Soo Choi, Chang-Seon Song

## Development and Field Application of M2e ELISA for Differentiation of Infected from Vaccinated Chickens of H9N2 Avian Influenza

Min-Chul Kim, Jun-Gu Choi, Ji-Sun Kwon, Hyun-Mi Kang, Mi-Ra Paek, Ok-Mi Jeong, Jun-Hun Kwon, Youn-Jeong Lee

### Multiplex Microsphere Assay for Detection of Avian Influenza Virus H5 and H7 Subtypes

Teneema Kuriakose, Deborah A.Hilt, Mark W.Jackwood

### Shedding and Survivability of Low Pathogenic Avian Influenza (LPAI) Viruses in Chickens, Quails and Turkeys

Aline R. Reis, David E. Stallknecht, Maricarmen Garcia

### The Pathogenesis of H3N8 Canine Influenza Virus in Poultry Species

Erica Spackman, Mary Pantin-Jackwood

#### Avian Influenza (continued)

#### Risk Assessment for Movement of Washed and Sanitized Shell Eggs during a Highly Pathogenic Avian Influenza Outbreak Sasidhar Malladi Janel D. Funk Timothy J. Goldsmith David A

Sasidhar Malladi, Janel D. Funk, Timothy J. Goldsmith, David A. Halvorson, Morgan J. Hennessey, Will D. Hueston, Brendan Lee

### Improved Biosecurity in Controlling Highly Pathogenic Avian Influenza: A Private-Public Partnership Initiative

Shankar P. Mondal, David Tardif-Douglin, Robert Ryan-Silva, Rich Magnani

### Development of an eXtension Community of Practice on the Prevention and Control of Avian Influenza

Nathaniel L. Tablante, Savannah O'Toole, Pamela King, Jennifer Timmons, Nickolas Zimmermmann

#### **Bacteria**

### Evaluation and Implementation of an Automated Bacterial ID System for Avian Pathogens

Kevin Smith, Selena York

### A Longitudinal Study Evaluating the Effect of Gut-Colonizing Bacteria on the Prevalence of E. coli

Dave V. Fernandez, Michael Martin

### Distribution, Expression and Secretion of the RTX-Toxin Gtxa among Members of the Genus Gallibacterium

Anders M. Bojesen, Bodil M. Kristensen, Dorte Frees

#### Clostridium

### Secretory Protein Profile of Clostridium perfringens from Cellulitis Cases in Turkeys

Anil J. Thachil, David A. Halvorson, Kakambi V. Nagaraja

#### Molecular Characterization of Clostridium sp. associated with Turkey Cellulitis

Robert Porter, Matheus Costa, Simone Oliveira, Clint Been, Scott Wells, Morgan Hennessey, Patricia Belford, Michelle Andersen, Brian McComb, Andre Ziegler, Sri Sreevatsan

#### **Coccidiosis**

#### Hyperimmune Egg Yolk IgY Antibodies Against Eimeria Mediate Protective Immunity Against Avian Coccidiosis by Inhibiting Sporozoite Invasion and Reducing Pro-Inflammatory Cytokine Response

Hyun S. Lillehoj, Sung H. Lee, Lucio E. Decanini

### Oocyst Cycling and Shedding Pattern of a Novel Live Coccidiosis Vaccine

Joan S. Schrader, Steven Fitz-Coy, Charles T. Broussard, Deborrah S. Higuchi, Terri L. Wasmoen

## Efficacy of a Novel Live Coccidiosis Vaccine Containing Both Precocious and Non-precocious Eimeria maxima Strains against Virulent E. maxima Challenge

Joan S. Schrader, Deborrah S. Higuchi, Steven Fitz-Coy, Charles T. Broussard, Terri L. Wasmoen

#### **Food Safety**

**DWIGHT SCHWARTZ TRAVEL AWARD** 

An Alternative to the Traditional "Poultry Pathologist" - Veterinary Careers through the USDA Food Safety Inspection Service
Travis Schaal

#### Is APEC a Source of Human ExPEC?

Lisa K. Nolan, Kelly A. Tivendale, Ganwu Li, Paul Mangiamele, Yvonne M. Wannemuehler

### Survey of Food-borne Pathogenic and Indicator Bacteria in the Processing Plants of Duck

Eun-ok Jeon, Rok-Ju Shin, In-Pil Mo

### Salmonella Isolated from Commercial Poultry Processing in NE Georgia

Karen A. Liljebjelke, John A. Cason, Kimberly D. Ingram, Arthur Hinton Jr.

#### Comparative Analysis of S. Senftenberg from Poultry and Humans

Catherine M. Logue, Shana R. Petermann, Julie S. Sherwood, Ryan Stepan

#### Use of Comparative Genomics and Eukaryotic Cell Adherence/ Invasion Assays of the Food-Borne Pathogen Campylobacter jejuni for the Identification of Putative Virulence Factors

Kelli L. Hiett, E. Deann Akins, Mustafa Simmons, Bruce S. Seal

#### Bacterial Contamination of Commercial Chicken Eggs in Grenada, West Indies

Ravindra N. Sharma, Arathy Sabarinath, Guillaume Vanpee, Guillaume Belot, Vanessa Matthew, Claude DeAllie

#### **Fungus**

### Dactylaria Infection of the Eyes and Brains of Broiler Breeder Pullets

James F. Davis, Oscar J. Fletcher

#### <u>Immunology</u>

### U. S. Veterinary Immune Reagents Network: Progress with Poultry Immune Reagents

Hyun S. Lillehoj, Sung H. Lee, Duck K. Kim, Cynthia Baldwin, Danielle Tompkins, Joanna LaBresh, Yvonne Sullivan, Bettina Wagner

### Analysis of the Turkey Genome Sequence Reveals New Insights into Avian Immune Systems

Rami A. Dalloul, Dave W. Burt, Kent M. Reed, Otto Folkerts, Pete Kaiser, Ed J. Smith, Roger A. Coulombe, Jerry B. Dodgson

### Simultaneous Temporal Monitoring of IBDV, IBV, Reo, and NDV Antibodies using a Liquid Microsphere Array

Michaela Hoffmeyer, Matilde Alfonso, Bill Hewat, Hillary Hagan, Tom Copa, Harold Baker

#### **Infectious Bronchitis Virus**

### Implications of Multiple Virus Populations in the Arkansas Strain of IBV on Pathogenicity

Jamie E. Phillips, Debbie A. Hilt, Mark W. Jackwood

### RT-PCR Detection of Infectious Bronchitis Virus in Broilers with Deep Pectoral Myopathy

Elmiro R. Nascimento, Davi de O. Almeida, Sankhiros Babapoor, Mazar I. Khan, Virginia Léo A. Pereira, Rogerio Tortelly

#### **Effects of Infectious Bronchitis Virus on Chicken Testicles**

Rodrigo A. Gallardo, Vicky L. van Santen, Frederic J. Hoerr, Haroldo Toro

### Molecular Characterization of the Nephropathogenic Infectious Bronchitis Genome

Sharmi W. Thor, D. A. Hilt, M. W. Jackwood

#### Protective Efficacy of Commercial Vaccines against New Emerging Recombinant Strains of Nephropathogenic Infectious Bronchitis Virus in Korea

Tae Hyun Lim, Hyun Jeong Lee, Ha Na Youn, Youn Jeong Lee, Jae Hong Kim, Jang Hyuck Han, Won Hur, Joong Bok Lee, Seung Yong Park, In Soo Choi, and Chang Seon Song

#### Field Trial of Trivalent IB Vaccine Containing New Variants (KIIa) Bon-Sang Koo, Sang-Wook Lee, Jong-Bo Shim, In-Pil Mo

#### **Highly Localized Infections with Ark-type IBV Vaccines**

Vicky L. van Santen, Eunice N. Ndegwa

#### **Infectious Bursal Disease**

### Morbidity, Mortality and Pathology Caused by Different Challenge Doses of vvIBDV

Daral J. Jackwood, Susan E. Sommer-Wagner, Simone Stoute

### Persistence and Distribution of Infectious Bursal Disease Virus in Various Tissues of Chickens

Abdul Rauf, Maria V. Murgia, Mahesh Katri, Y.M. Saif

### A Real-Time RT-PCR Developed for Surveillance and Differential Detection of vvIBDV and Endemic IBDV

Daral J. Jackwood, Beate M. Crossley, Leslie Woods, Hailu Kinde, Sharon K. Hietala

### Comparison of Common Tools Following VECTORMUNE HVT IBD Vaccination

George D. Boggan, Alecia Godoy, Ellie Brimer, Kristi Moore, Yannick Gardin

#### Comparative Protection against Infectious Bursal Disease between Coarse Spray and Drinking Water Vaccination in Commercial Broilers

Pablo Reyna, Eliana Icochea, Diana Castellanos, John Guzmán, Rosa Perales, Rosa González, Mercedes Sialer

### Assessment of the Take of an Immune Complex IBD Vaccine under Various Field Conditions, Using Molecular Techniques

Yannick Gardin, Vilmos Palya, Tamas Mato, Timea Tatar-Kis, Roberto Soares, Branko Alva, Christophe Cazaban, Sylvain Comte, Fernando Lozano, Zoltan Penzes, Kristi Moore Dorsey

## Comparison of the Effect of Cryptosporidium baileyi (C. baileyi) and Infectious Bursal Disease Virus on the Bursa of Fabricius of SPF Chicks

Hayet Abbassi, Muriel Naciri

#### **Laryngotracheitis**

### Optimization of a Duplex Real-Time PCR for Quantitation of Infectious Laryngotracheitis Virus (ILTV) in Tracheal Swabs

Ariel E Vagnozzi, Sylva M Riblet, Taylor Barbosa, Guillermo Zavala, Maricarmen García

## Infection of Broilers with Two Virulent Strains of Infectious Laryngotracheitis Virus (ILTV): Criteria for Evaluation of Experimental Infections

Maricarmen Garcia, Ariel Vagnozzi, Sylva M. Riblet, Guillermo Zavala

#### Efficacy of Two Vaccine Programs against Infectious Laryngotracheitis in Layers

Eliana Icochea, Pablo Reyna, Manolo Fernandez, Rosa Gonzalez, Rosa Perales, John Guzman

#### Protection Study of Vaccine Programs against Infectious Laryngotracheitis in Broilers

Eliana Icochea, Pablo Reyna, Manolo Fernandez, Rosa Gonzalez, Rosa Perales

#### **Management & Welfare**

### **Survey of Antibiotics Available in Feed Stores for Small Poultry Flocks**

Julie D. Helm, Donna J. Kelly, Dana Giurgiutiu

### **Evaluation of Strategies to Enhance Compliance of Biosecurity Measures**

Manon Racicot, Jean-Pierre Vaillancourt

### The Effects on Broiler Performance of Various Levels of Nitrogenous Compounds in Poultry Drinking Water

Elena L. Behnke, John Smith

### How to Please the Welfare Auditor (And Make Them Go Away) James T. Barton

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#### <u>Mycoplasma</u>

### Mycoplasma iowae Real-Time PCR Validation and Comparative Testing of Samples from Commercial Turkeys

David H. Ley, Scott A. Callison

#### Molecular characterization of MG isolates from Jordan

Saad Gharaibeh, Victoria Laibinis, Ruth Wooten, Naola Ferguson-Noel

### Comparison of Mycoplasma Detection by Real-Time PCR from Flocked, Cotton or Polyester Swabs

Victoria A. Laibinis, Naola Ferguson-Noel

### Serological Survey of Mycoplasma gallisepticum and Mycoplasma synoviae in Backyard and Auction Poultry in Georgia

Benjamin C. Johnson, Len Chappell

#### **Neoplastic Diseases**

### Diagnosis of Marek's Disease from a Japanese Quail (Coturnix japonica) using Paraffin-Embedded Liver

John R. Dunn, Teresa Southard, Coreen Cooper, Matti Kiupel, Richard L. Witter

### Natural Infection with Exogenous Avian Leukosis Virus (ALV) in Egg-Type Chickens

Guillermo Zavala, Sunny Cheng, Taylor Barbosa

Identification of Lymphoproliferative Disease Virus in Wild Turkeys (Meleagris gallopavo) in the Southeastern United States Justin D. Brown, Andrew B. Allison, Andrew N. Cartoceti, M. Kevin Keel

#### **Newcastle Disease**

#### Pathological and Immunohistochemical Study of the Reproductive Tracts of Vaccinated Layers Infected with the Virulent CA02 Strain of Newcastle Disease Virus

Leonardo Susta, Patti J Miller, Eduardo Lucio Decanini, Angel E Absalón, Claudio L Afonso, Corrie C Brown

### Neurological Lesions in Chickens Experimentally Infected With Virulent Newcastle Diseases Virus Isolates

Roselene Ecco, Leonardo Susta, Claudio L. Afonso, Patti J. Miller, Corrie Brown

#### Clinicopathological Characterization of Two Recombinant Newcastle Disease Viruses Derived From a Virulent Chinese Strain

Leonardo Susta, Patti J Miller, Shunlin Hu, Xiufan Liu, Cary A Rue, Claudio L Afonso, Corrie C Brown

### Safety and Efficacy of Live Newcastle Disease Vaccine Originated from Wild Birds

In-Pil Mo, Jong-Bo Shim, Ho-Keun Won, Hyun-Hee So

### Development of Recombinant Newcastle Disease Virus LaSota Strain-Based Multivalent Vaccine Vector

Qingzhong Yu, Jason Roth, Haixia Hu, Carlos Estevez, Laszlo Zsak

#### **Nutrition**

#### Performance and Reduction of Condemnation Lesions in Broilers Subjected To Synergistic Supplements

E.K. Barbour, Zahi El-Hajj, Houssam Shaib, Houssam Itani, Maya Saadeh, Wiam Haidar, Lina Jaber, Rania Semioj

### Effects of Tribasic Copper Chloride on Growth Performance and Intestine Mucosal Immunity of Broiler Chickens

Ye Ding, Ruiping She , Huihui Bao, Deping Han, Zhuo Yue, Jijing Tian, Pin Yu, Ruiwen Li, Jun Yin

#### **Parasitic Diseases**

#### Parasitic Ventriculitis in Pigeons

C. Gabriel Sentíes-Cué, Lucy Anthenill, L. McDougald, B. R. Charlton, R. Houston, M. Bland

#### **Pathology**

### Histomorphometric & Histological Studies on Age-Associated Changes in the Myocardium and Arteries of Meat-Type Chickens

Floyd Wilson, Kelli H. Jones, Danny L. Magee, Lanny W. Pace

## Early Small Intestine Development is Affected by either Antibiotic or Probiotics Treatments: Implication on Intestinal Innate Immunity

Juan C. Rodríguez-Lecompte, Gilberto Camelo-Jaimes, Garry Crow, Jessica Brady, James House

#### **Muscle Pathology in Cases Involving Broilers and Broiler Breeders** Frederic J. Hoerr, Susan B. Lockaby

#### **Runting Stunting Syndrome**

### Identification and Molecular Characterization of RSS Enterovirus from Broilers Using RT-PCR and Sequencing

Lanqing Li, Emily E. Handley, Michael R. Luther, Alicia Wise, Alana Fulmer, Frederic J. Hoerr

## Experimental Inoculation of Specific-Pathogen-Free Broiler Chicks with a Thyroid Homogenate, Containing Chicken Astrovirus, Collected from Field Broiler Chickens with Runting-Stunting Syndrome

James F. Davis, Erica Spackman, Mary Pantin-Jackwood, Adam Davis Salmonella

### Outbreaks of Pullorosis with Nervous Tropism in Broilers in Vietnam

Alexis Kiers, Léni Corrand, Oliver Albaric, Vu Hoai Thu, Patrice Gautier, Jean-Luc Guerin

### Protective Efficacy Study of Bacteriophage Feed Additives against Salmonella Gallinarum

Ha-Na Youn, Hyun-Jeong Lee, Dong-Hun Lee, Yu-Na Lee, Seung-Hwan Jeong, Tae-Hyun Lim, Myeong-Seob Kim, Min-Ae Thak, Jung-Un Kim, Joong-Bok Lee, Seung-Young Park, In-Soo Choi, Chang-Seon Song

### Occurrence of Bacterial Arthritis Caused by Salmonella enterica serovar Enteritidis in an Integrated Broiler Company

Yong-Kuk Kwon, Min-Soo Kang, Byung-Ki An, Eun-A Song, Byeong-Yeal Jung, Jun-Hun Kwon, Gab-Soo Chung

#### **Viruses**

### A Preliminary Survey of Hemagglutinating Viruses in the Coast of Pinamar, Argentina

Celina Buscaglia

### Monitoring of Avian Paramyxovirus Type 1 in Wild Birds in the Coast of Lima

Rosa González, Eliana Icochea, Armando González, Bruno Ghersi, David Blazes, Joel Montgomery

### Epidemiological Studies of Avian Paramyxovirus Type-4 and 6 infection in Domestic and Wild Birds

Hae-Rim Lee, Jeong-Hwa Shin, Kang-Seuk Choi, In-Pil Mo

#### Cross Protective Efficacy of Inactivated Oil-Emulsion FAdV-4 Vaccine in Specific Pathogen Free and Broiler Chickens

Myeong-seob Kim, Tae-hyun Lim, Seung-Hwan Jung, Hyun-jeong Lee, Dong-hoon Lee, Ha-na Yoon, Hong-kyung uhn, Jang Hyuck Han, Joong-Bok Lee, Seung-Yong Park, In-Soo Choi, Chang-Seon Song

#### Viruses (continued)

### Characterization of Goose Hemorrhagic Polyomavirus (GHPV) Infection in Ducks

Léni Corrand, Olivier Albaric, Jean-Luc Pingret, Jean-Luc Guerin

### A Challenge Model of Fowl Adenovirus Serotype-4 for Evaluation of Vaccine Efficacy in Chickens

Ji-Ye Kim, Jong-Nyeo Kim, In-Pil Mo

### Development and Evaluation of VP3-ELISA for Detection of Goose and Muscovy Duck Parvovirus Antibodies

Yun Zhang, Ming Liu, Vanhanseng, Yongfeng Li

#### A Novel Picornavirus Associated with Turkey Viral Hepatitis

H. L. Shivaprasad, K. S. Honkavuori, T. Briese, W. I. Lipkin

### Detection and Quantitation of Turkey Coronavirus in Intestines and Feces from Infected Turkeys by Real-Time RT-PCR

Tsang Long Lin, Yi-Ning Chen, Ching Ching Wu, Thomas Bryan, Tom Hooper, Donna Schrader

#### Identification and Molecular Characterization of an Enteric Reovirus in Young Commercial Quail

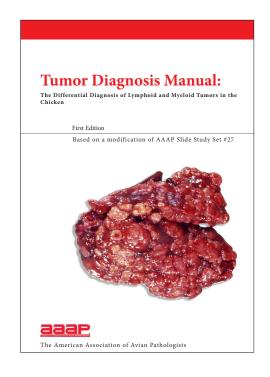
Lanqing Li, Emily Handley, Michael R. Luther, Alicia Wise, Alana Fulmer, Frederic J. Hoerr

### Economic Impact of Reo Virus Vaccination on Selected Broiler Farms

Samuel P. Christenberry, Travis Bowers, Mike Glass

### Studies of Non-Metallic Organic Disinfectants on Inactivation of Avian Respiratory Viruses

Huaguang Lu



## Tumor Diagnosis Manual: The Differential Diagnosis of Lymphoid and Myeloid Tumors in the Chicken

By Richard L. Witter, Isabel M. Gimeno, Arun R. Pandiri and Aly M. Fadly

This manual was written for diagnosticians and researchers in both field and laboratory to stimulate interest in tumor diagnostics and encourage the development of improved techniques. The manual contains 84 pages with over one-hundred images designed in 42 slide views. Release for sale on August 1, 2010.

Hard copy **and** Online copy available for \$50. (plus shipping)

Hard copy **or** Online copy only available for \$40 each. (plus shipping for hard copy if selected)

Available at the AAAP Information booth and online at www.aaap.info/page/tumor



### Avian Diseases Digest

Begun in 2006, Avian Diseases Digest was developed with the non-scientist avian professional in mind, but the busy avian scientist will find it a helpful tool as well. After reading an article in Avian Diseases Digest, the reader will understand what is being published and how the findings relate to him or her as poultry professionals. Avian Diseases Digest functions as a quick over-view of the latest scientific research. It does not take away the need to read Avian Diseases where all the technical details on each article are available. Published four times a year and available online in English and Spanish for \$45 a year.

Available at www.aaap.info/page/ADDigest

### **Conference Notes & Contacts**









#### **Future Convention Sites**

2011*	July 16 - 19	St. Louis, MO
2012	August 4 - 7	San Diego, CA
2013	July 20 - 23	Chicago, IL
2014	July 26 - 29	Denver, CO

<sup>\*</sup> Combined Program with Poultry Science Association

America's Center Convention Complex San Diego Convention Center McCormick Place, West Building Colorado Convention Center