



American Association of Avian Pathologists
July 24-28, 2004
Philadelphia, Pennsylvania



SCIENTIFIC PROGRAM

Monday, July 26, 2004 – Morning Program		
	Session A –	Session B –
	Moderator: John Glisson	
8:00 AM	Keynote Speaker: The Many Faces of a FAD Dr. Charles Beard	
	Moderator: Larry McDougald	Moderator: Susan Williams
8:30 AM	Molecular Analysis of Heat Shock Protein 90 (hsp90) in Species of <i>Eimeria</i> Responsible for Coccidiosis in Poultry Miska, Katarzyna, Hyun S. Lillehoj, Wongi Min, and Raymond H. Fetterer	Control of Low Pathogenic H7N2 Avian Influenza in Multiage Layers in Connecticut by Conventional and DIVA Vaccination Strategies Senne, Dennis A., Janice C. Pedersen, David L. Suarez, William G. Smith, Bruce Sherman, and Brundaban Panigrahy
8:45 AM	CpG oligodeoxynucleotide as Vaccine Adjuvant to <i>Eimeria</i> in Chickens Dalloul, Rami A., Hyun S. Lillehoj, Xicheng Ding, Wongi Min, Robert A. Heckert, and Dennis M. Klinman	Molecular Epidemiology of a Recent H6N2 Avian Influenza Outbreak in the US Suarez, David L. and Peter R. Woolcock
9:00 AM	Passive Protection against Two <i>Eimeria</i> Species in Chickens by Orally Administered Antibodies Specific for a Single <i>Eimeria</i> Protein Lillehoj, Hyun S., Sa V. Ngyyen, John P. Donahoe, A. H. Yokohama, and Y. Kodama	Vaccination against H6N2 Avian Influenza Virus in Commercial Egg Laying Chickens Cardona, Carol J. and Peter Woolcock
9:15 AM	In ovo Immunization with Naked DNAs which Encode Coccidia Proteins Elicits Antigen Specific Immune Responses against <i>Eimeria</i> Ding, Xicheng, Hyun Lillehoj, Marco Quiroz, and Erich Bevenssee	Surveillance and Epidemiology for Avian Influenza in the New York Live Bird Markets: 2002-current Trock, Susan C., Dennis A. Senne, Michelle Gaeta, and Annette Gongalez
	Break 9:30 AM – 10:00AM	Break 9:30 AM – 10:00AM
	Moderator: Larry McDougald	Moderator: Carol Cardona
10:00 AM	Examination of Stability of the Shift in Increased Anticoccidial Sensitivity with Coccivac-B Mathis, Greg F. and Charlie Broussard	Pathogenic Potential of North American H7N2 Virus: a Mutagenesis Study using Reverse Genetics Lee, Chang W., Youn-Jung Lee, and David L. Suarez
10:15 AM	New Immunomodulators Improve the Response of Chickens to Live Coccidiosis Vaccination Fuller, A. Lorraine and Larry R. McDougald	Chicken Adaptation of Low Pathogenicity Avian Influenza Challenge Virus is Necessary to Assess Inactivated Vaccine Protection Swayne, David E., Joan R. Beck, and Chang-Wan Lee
10:30 AM	Is Concomitant Immunity the Protective Immune Response to Coccidiosis? Lee, Eng H.	Dynamics of Type A Influenza Virus Infections in Captive-released Ducks Slemons, Richard D., Vernon D. Stotts, and David E. Swayne
10:45 AM	Non-interference of Inovocox™, a Live Coccidial Vaccine with Bursaplex™ after Simultaneous <i>in ovo</i> Administration	Comparison of Three Rapid Detection Systems for Type A Influenza Virus on Tracheal Swabs of Experimentally and Naturally Infected Birds

	Doelling, Vivian W. and Rebecca M. Poston	Cattali, Giovanni, Calogero Terregino, Graddo Vicenzoni, Anna Toffan, and Ilaria Capua
11:00 AM	Field Observations from the Use of Johnson & Reid Coccidiosis Lesion Scoring System on Broilers Vaccinated with a New Coccidiosis Vaccine Quiroz, Marco A., Chris D. Knight, Tim Cherry, and Julia J. Dibner	Rapid Detection of Influenza Virus Type A in Poultry using Commercially Available Immunoassay Kits Woolcock, Peter R. and Carol J. Cardona
11:15 AM	Current Status of Clopidol Anticoccidial Sensitivity Mathis, Greg F. and Mike Cope	Sero-prevalence of Avian Influenza among Breeder Broiler Flocks in Jordan Al-Natour, Mohammad Q., Mahmoud N. Abo-Shehada

AAAP Awards Luncheon

**Loew's Philadelphia Hotel
Regency Ballroom B
11:30 – 2:00 PM**

Monday, July 26, 2004 – Afternoon Program

	Session A –	Session B –
	Moderator: Greg Mathis	Moderator: David Suarez
2:00 PM	Anticoccidial Drugs and <i>Eimeria</i> Infection Dobson, Kurt, H. David Chapman, Mark W. LaVorgna, and Phil Matsler	Antigenic Drift of Mexican-lineage H5N2 Avian Influenza Virus in the Presence of Vaccine Pressure Lee, Chang W., Dennis A. Senne, and David L. Suarez
2:15 PM	Comparative Efficacy of Some Anticoccidial Drugs against <i>Eimeria tenella</i> in Experimentally Infected Broiler Chicks Abo-Shehada, Mahmoud N., Mohammad Q. Al-Natour, and Maysoon M. Suleiman	Immune Profile following <i>in ovo</i> Vaccination with a Novel Newcastle Disease Vaccine in Commercial Broilers Haddad, Eid E., Craig E. Whitfill, Don E. Grosse, Craig Blackmore, and Patricia S. Wakenell
2:30 PM	Nutritional Studies with Semduramicin (Aviax®) in Broiler Chicks Cervantes, Hector M., Kenneth W. Bafundo, Gene M. Pesti, and Remzi I. Bakalli	Protection of Broilers against Newcastle Disease by <i>in ovo</i> Vaccination with Turkeys Herpesvirus Vectored Newcastle Disease Vaccine Jirjis, Faris F. and P.J.A. Sondermeijer
	Break 2:45 PM – 3:00PM	Break 2:45 PM – 3:00PM
	Moderator: Greg Mathis	Moderator: David Suarez
3:00 PM	Diagnosing Coccidiosis in Turkeys Clark, Steven R., Eugene Schildknecht, and Lisa Rakebrand	The Susceptibility of Non-vaccinated and PMV-1 Vaccinated Racing Pigeons to Infection with Exotic Newcastle Disease (END) Virus Isolated during the 2002-2003 END Outbreak King, Daniel J., Darrell R. Kapczynski, Nobuko, Wakamatsu, and Mark G. Wise
3:15 PM	Blackhead Control in Turkeys Revisited Schildknecht, Eugene G.	The Use of Infectious Clones to Examine Contributions of Various Genes to Virulence of Newcastle Disease Virus Wakamatsu, Nobuko, Daniel J. King, Bruce S. Seal, Ben P.H. Petters, Siba K. Samal, and Corrie C. Brown
3:30 PM	A Test of Known Antiprotozoal Drugs against <i>Histomonas meleagridis</i> in Chickens McDougald, Larry R. and Jinghua Hu	Utilization of a Real-Time RT-PCR Assay for Avian Paramyzovirus-1 and Avian Influenza Virus Surveillance and Results of Proficiency Test Performed by Participating Laboratories Pedersen, Janice C., Dennis A. Senne, Erica Spackman, and B. Panigraphy
3:45 PM	Systemic Histomoniasis in Commercial Brown Chickens Cortes, Portia L., Richard P. Chin, Mark C. Bland, Rocio Crespo, and H. L. Shivaprasad	Comparison of Two Commercial Infectious Bronchitis Vaccines in Broiler Chickens Alba, Monica C., Ana Jove, Maria E. Icochea, Pablo S. Reyna, Rosa I. Gonzalez, and Branko B. Alva
4:00 PM	Field Investigation into the Incidence and Prevalence of Non-cocci Protozoal Diarrhea in Commercial Turkeys Heskett, Eric A., Robert A. Evans, James D. Trites, and Gary D. Butcher	The Common Infectious Bronchitis Virus Serotypes in Jordan Gharabeh, Saad M.

4:15 PM	Effects of <i>Tetrtrichomonas gallinarum</i> and <i>Cochlosoma anatis</i> on Commercial Turkey Performance Rives, David V.	Development of a One Tube Real Time RT-PCR Assay for the Quantitation of Infectious Bronchitis Virus Alvarado, Ivan R. and Pedro Villegas
4:30 PM	Necrotic enteritis in Broilers: Techniques of Experimentally Induced Necrotic enteritis Infection and Lesion Scoring in Floor-pen Studies Davis, Stephen W. and Beverly A. George	Serologic and Molecular Characterization of IBV Variants Recently Isolated from Commercial Layer Flocks Lu, Huaguang, Zhiqin Xie, Richard Dutton, Eva A. Wallner-Pendleton
4:45 PM	Pathophysiology of Coccidiosis and <i>Clostridial enteritis</i>: Lesions from a Chick Model Hofacre, Charles L., Chad T. Collier, H. Rex Gaskins, and Greg F. Mathis	Complete Genome Sequence of the Cal99 Infectious Bronchitis Virus Mondal, Shankar P. and Carol J. Cardona
5:00 PM	Adjourn	Adjourn
Tuesday, July 27, 2004 – Morning Program		
	Session A –	Session B –
	Moderator: Karen Burns	Moderator: Mo Saif
8:00 AM	Broiler Performance Associated with Various Modes of Infectious Laryngotracheitis Vaccination Stayer, Philip A. and Timothy S. Cummings	A Field Evaluation of IBD Vaccination in Broilers McCarty, John E. and Tom P. Brown
8:15 AM	LT Challenge of Field Vaccinated Broilers Cummings, Timothy S., Philip A. Stayer, Danny L. Magee, and Roy D. Montgomery	The Impact of Infectious Bursal Disease Virus on the Feed Conversion and Weight Gain of Commercial Broilers from a Single Breeder Hen Source that Received a Live and Killed Vaccination Program Davis, Stephen W., David D. Smith, and Michael W. McCabe
8:30 AM	Case Report: Clinical Aspergillosis in Five-week-old Broilers Magee, Danny L. and Phil A. Stayer	Evaluation of IBDV-vaccine Efficacy in Broilers: a Difficult Approach Rautenschlein, Silke, Christian Kraemer, Johan Vanmarcke, and Enrique Montiel
8:45 AM	Using Epidemiologic Principles to Evaluate and Properly Use Diagnostic Tests Carver, Donna K.	Dynamics of an Immune Complex Vaccine against Infectious Bursal Disease Virus (IBDV) in Commercial Broiler Immunized <i>in ovo</i> Banda, Alejandro and Pedro Villegas
9:00 AM	Do We Have Enough Information to Make a Decision? A Company Veterinarian's Perspective Gonder, Eric C. and Becky J. Tilley	Co-administration of chicken IFN-γ for Protection of Chickens against Infectious Bursal Disease by DNA Vaccination Wu, Ching-Ching, Ming Kan Hsieh and Tsang Long Lin
9:15 AM	Critical Biostatistical Issues for the Analysis of Field Data Vaillancourt, Jean-Pierre A.	Molecular Epidemiology of Infectious Bursal Disease Viruses: Distribution and Genetic Analysis of New Variants in the United States Jackwood, Daral J. and Susan E. Sommer
	Break 9:30 AM – 10:00AM	Break 9:30 AM – 10:00AM
	Moderator: Gregorio Rosales	
	Lasher History Lecture: "History of Avian Mycoplasma Research and Control" Dr. Stanley Kleven 10:00 – 10:30 AM	
	AAAP Business Meeting 10:30 – 12:00 noon	

Lunch 12:00 noon – 1:00 PM		
Tuesday, July 27, 2004 – Afternoon Program		
	Session A –	Session B –
	Moderator: Bruce Charlton	Moderator: Daral Jackwood
1:00 PM	Diseases and Lesions in the Reproductive System Julian, Richard J.	Evaluation of the Humoral Immune Response to IBDV in Specific-Pathogen-Free Chickens using Flow Cytometry Analysis and ELISA Petkov, Daniel I., Erich G. Linnemann, Darrell R. Kapczynski, and Holly S. Sellers
1:15 PM	Concurrent Encephalomalacia and Low Pathogenic Avian Paramyxovirus-1 in Breeders Van Sambeek, Francene, Susan B. Lockaby, and Lanqing Li	Molecular Characterization of Virulent Infectious Bursal Disease Virus (IBDV) Attenuated by Serial Passages in Avian Macrophages Abbassi, Hayet and Jagdev M. Sharma
1:30 PM	“Knock Down” in Laying Hens Fulton, Richard M. and Wilson K. Rumbelha	Effect of Infectious Bursal Disease Virus on Macrophages Khatri, Mahesh, Joe Pamquist, and J. M. Sharma
1:45 PM	Intestinal Length and Weight of Broilers as an Indicator for Enteritis Kelly, Tami F.	DNA Sequencing and Phylogenic Analysis of the VP5 and VP2 Genes of Brazilian Very Virulent, Tissue Culture Adapted and Early 1990s Variants of Infectious Bursal Disease Virus (IBDV) Brentano, Liana, Marcelo M. Hayashi, and Antonio J.P. Ferreira
2:00 PM	Recognizing PEC in Commercial Turkey Flocks by its Effect on Growth and Productivity Alfonso, Matilde, David Rives, and H. J. Barnes	The Effect of Chicken Anemia Virus Vaccination on the Prevalence of Food Safety Pathogens in Commercial Broiler Chickens Sommer, Franz, Joan Jeffrey, Bruce W. Charlton, and Carol J. Cardona
2:15 PM	Case Report: Excessive Mortality in Pen-Raised Bobwhite Quail Magee, Danny L.	Comparison of Serological Methods for the Detection of Antibodies to Chicken Anemia Virus in Chicken Sera Lamichhane, Chinta Mani, Craig M. George, and Brenda Glidewell
	Break 2:30 PM – 3:00PM	Break 2:30 PM – 3:00PM
	Moderator: Guillermo Zavala	Moderator: David Rives
3:00 PM	<i>In ovo</i> Site of Injection on Day 18 of Incubation of Manually Injected Broiler and Leghorn Chicken Embryos Avakian, Alan P., Donald B. Link, John Dickson, Lynn Murray, and Rosemary Stowers	Pathogenic Avian Mycoplasmas in the Multifactorial Respiratory Disease in Mexico Ortiz, Ariel M., Ernesto P. Soto, and Stanley H. Kleven
3:15 PM	REED RUMSEY AWARD Recombinant Avian Adeno-associated Viruses: A Novel Virus-based Approach to Gene Delivery in Poultry Estevez, Carlos and Pedro Villegas	Monitoring of <i>Mycoplasma gallisepticum</i> Vaccine Strain ts-11 in Vaccinated Broiler-Breeder Chickens and Chickens and Turkeys Infected by Transmission Levisohn, Sharon, Inessa Lysynanski, and Shimon Perk
3:30 PM	Experimental <i>in ovo</i> Transfer of Avian Reovirus Shane, Simon M., Lizza M. Macalintal, Frank W. Edens, and Muquarab A. Qureshi	The Interaction of Newcastle Disease Virus <i>in ovo</i> Vaccination and <i>Mycoplasma gallisepticum</i> Infection Ferguson, Naola, Victoria A. Leiting, Ruth S. Wooten, and Stanley H. Kleven
3:45 PM	Development of Digoxigenin-labeled DNA Probes for <i>in situ</i> Detection of Infectious Laryngotracheitis Virus Sellers, Holly S., Erich Linneman, Minxun Song, and Maricarmen Garcia	The Epidemiology of an Unusual <i>Mycoplasma gallisepticum</i> Outbreak Jennings, Shannon, J.P. Vaillancourt, and David Ley
4:00 PM	Comparison of Avian Reovirus S1 Genes Giambone, Joseph J., Wu Hongzhuyan, Narendar K. Singh, Karen S. Gunn, and Robert Locy	Cellular Immune Response to Avian Pneumovirus Sharma, Jagdev M., Rami Cha, and Mahesh Khatri
4:15 PM	Evaluation of Genetically Modified Fowlpox Lacking REV as Vaccines against Fowlpox Virus Tripathy, Deoki N., Tae-Joong Kim, Pratik Singh	Safety and Immunogenicity of a Live Avian Pneumovirus Vaccine in Commercial Turkeys Hopkins, Brett A. and Joan Leonard
4:30 PM	Real-time PCR for Differentiation of Fowlpox Virus (FPV) Strains Tadese, Theodros and Willie M. Reed	FlockCheck* Avian Pneumovirus A, B, C Antibody ELISA Munoz, Ricardo, Goran Holmquist, and Andrea Ballagi
4:45 PM	Development of a Serologic Assay to Detect Turkey Astrovirus Schultz-Cherry, Stacey L., Anna Iglar, Holly S. Sellers, and Matthew D. Koci	Pathogenesis of Avian Pneumovirus (APV) Infection in Two-week-old Turkeys Velayudhan, Binu T., Richard Bennet, Vanessa C. Lopes, David A. Halvorson, Kakambi V. Nagaraja
5:00 PM	Adjourn	Adjourn

Wednesday, July 28, 2004 – Morning Program

	Session A –	Session B –
	Moderator: Richard Gast	Moderator: Robert Silva
8:00 AM	Avian Heterophil Function and Regulation during Inflammatory Disease Andreasen, Claire B. and Dagmar E. Frank	Study of Naturally Occurring Avian Leukosis Virus Infection in a Commercial White Leghorn Breeder Flock Mays, Jody E., Arun R. Pandiri, Robert F. Silva, and Aly M. Fadly
8:15 AM	Results of <i>Campylobacter jejuni</i> Inoculations at Two Dose Levels in Broiler Chicks Dhillon, A. Singh, Dennis M. Schaberg, Fonda Wier, and Daina V. Bandli	Susceptibility of Various Lines of Commercial White Leghorn Chickens to Infection with a Natural Recombinant Subgroup B/J of Avian Leukosis Virus Fadly, Aly M., Jody K. Mays, Arun R. Pandiri
8:30 AM	RICHARD B. RIMLER MEMORIAL PAPER Multidrug Resistant <i>Salmonella enterica</i> Serovar Newport in Minnesota: Molecular Characterization of Isolates Lopes, Vanessa C., A. M. Kraska, B. T. Velayudhan, J. B. Bender, D. C. Lauer, and K. V. Nagaraja	Study of Adrenocorticotrophic Hormone-induced Stress on Subgroup J Avian Leukosis Virus (ALV-J) Viremia and Antibody in Adult Meat-type Chickens Previously Exposed to Virus at Hatch and 32 Weeks of Age Pandiri, Arun R., Willie M. Reed, and Aly M. Fadly
8:45 AM	Evaluation of Salmonella Reduction in Broilers from Breeders Vaccinated with Live and Killed Salmonella: A Field Study Young, S.D., K.H. Jones, T. Liu, C.L. Hofacre	Detection of Subgroup J Avian Leukosis Virus by using Monoclonal Antibody against the N Terminus of the Envelope Protein Wang, Chingho, Hui-Jen Chen, and Henry D. Hunt
9:00 AM	The Cellular Immune Response within the Chicken Crop Post-SE-Challenge Vaughn, Lara E., Peter S. Holt, Randle W. Moore, and Henry D. Stone	Characterization of Leukosis Virus as a Contaminant in Marek's Disease Vaccines Zavala, Guillermo and Sunny N. Cheng
9:15 AM	Serum Chemistry Values Before and After Challenge of Chickens with <i>Salmonella typhimurium</i> Wakenell, Patricia S. and Craig S. Blackmore	Quail Cell Lines Supporting Replication of Marek's Disease Virus Serotype 1 and Herpesvirus of Turkeys Schat, Karel A. and Xinhui Li
	Break 9:30 AM – 10:00AM	Break 9:30 AM – 10:00AM
	Moderator: Pedro Villegas	Moderator: Aly Fadly
10:00 AM	Ecology of <i>Salmonella enterica</i> on a Commercial Broiler Farm Liljebjelke, Karen, Charles Hofacre, Tongrui Liu, Marie Maiers, and John Maurer	Latency Associated Transcripts of Herpesvirus of Turkeys Bernberg, Erin L., Amy S. Anderson, Joan Burnside, and Robin W. Morgan
10:15 AM	Comparative Study of the Protection of Competitive Exclusion and Immunization against <i>Salmonella gallinarum</i> Experimental Infection in Layers Icochea, Maria E., Paola Cruz, Monica C. Alba, Pablo S. Reyna, and Jorge L. Chacon	Marek's Disease Viruses Lacking the 132 bp Repeats are Oncogenic but Can Still Be Attenuated by Serial <i>in vivo</i> Cell Culture Passages Silva, Robert F. and Isabel M. Gimeno
10:30 AM	Production of Internally Contaminated Eggs by Laying Hens after Experimental Infection with <i>Salmonella Heidelberg</i> Gast, Richard K. and Peter S. Holt	Construction and Analysis of a Viral Telomerase RNA Subunit (vTR) Deletion Mutant of a Very Virulent Marek's Disease Virus (MDV) Strain Trapp, Sascha, Daniel Schumacher, Venugopal Nair, and Nikolaus Osterrieder
10:45 AM	<i>Salmonella arizona</i>: Outbreaks in Turkey Poults Shivaprasad, H.L., R. Crespo, R. P. Chin, G. Senties-Cue, and P. Cortes	The US3 Protein of Marek's Disease Virus (MDV) is Involved in Development of Perinuclear Virions Schumacher, Daniel, Sascha Trapp, and Nikolaus Osterrieder
11:00 AM	Reduction of <i>Salmonella enteritidis</i> PT4 in Caecal Contents after Treatment with Bacteriophages Fiorentin, Laurimar, Nilson D. Vieira, and Waldomiro Barioni, Jr.	Novel Methods to Diagnose Marek's Disease Gimeno, Isabel, Richard L. Witter, Aly M. Fadly, and Robert F. Silva
11:15 AM	The Impact of Growth-promoting Antibiotics on Poultry Microbiota Avellaneda, Gloria E., Jingrang Lu, Margie D. Lee, Charles L. Hofacre, and John J. Maurer	Marek's Disease Virus Gene LORF11 Deletion Mutant is Essential for Replication in chickens Lee, Lucy F. and Robert F. Silva

11:30 AM	Use of Antibiotics and its Impact on Gut Microflora in Turkeys Karunakaran, Daniel	Appearance of a New Variant of an Israeli flavivirus of Turkeys: Turkey Meningo-Encephalitis Virus Banet-Noach, Caroline, Lubov Simanov, Mertyn Malkinson, and Shimon Perk
11:45 AM	Human Uropathogenic <i>Escherichia coli</i> Sequence Found in Avian Pathogenic <i>Escherichia coli</i> Johnson, Timothy I. and Lisa K. Nolan	Development of a Recombinant Vaccine against Egg Drop Syndrome in Chickens Gutter, Bezalel, Gilad Gallili, Avner Finger, Jacob Pitcovski, Tal Even-Chen, Elena Fingerut, and Dalia Eliahu
12:00	Adjourn	Adjourn