



American Association of Avian Pathologists
July 14-18, 2007
Washington DC Convention Center
Washington, D.C.



SCIENTIFIC PROGRAM

| Monday, July 16, 2007 – Morning Program | |
|--|---|
| | Moderator: A. G. Rosales |
| 8:00 AM | Keynote Speaker: John R. Glisson Room 207A <p style="text-align: center;">The Future of Veterinary Medicine and Poultry Production</p> |
| | Moderator: Stewart Ritchie Room 207A Moderator: Kenton Kreager Room 207B |
| 8:30 AM | Poultry House of the Future Mark A. Dekich and Jeannine M. Harter-Dennis |
| 8:45 AM | Welfare Audits: Present and Future Needs of the Poultry Industry Ken Opengart |
| 9:00 AM | Annual Antibiotic Consumption in a Commercial Turkey Operation Eric Gonder and Becky Tilley |
| 9:15 AM | Use of 4-H Project Turkeys as Serological Sentinels in North Carolina David V. Rives and Summer M. Russell |
| | Break 9:30 AM – 10:00AM |
| 10:00 AM | Teaching Poultry Necropsy Techniques to Afghan Veterinary Students Richard M. Fulton, Ezatullah Jaheed, and Robert M. Smith |
| 10:15 AM | Pre-Peak Lay Broiler Breeders with Impaired Mobility and High Mortality Associated with Myopathy and Hypocalcemia Valerie Rochelle Bullock, Michael P. Martin, Michael J. Wineland, Oscar J. Fletcher, and H. John Barnes |
| 10:30 AM | Use of the I-Stat Serum Chemistry Analyzer for Evaluation of Flock Health in Pre-Peak Lay Broiler Breeders Michael P. Martin, Valerie R. Bullock, Michael J. Wineland, Oscar J. Fletcher, and H. John Barnes |
| | Break 9:30 AM – 10:00AM |
| | Moderator: Ken Opengart Moderator: Susan Williams |
| 10:00 AM | Pathological and Viral Characterization of a Case of Splenomegaly in F Line Turkeys: Is HVT Able to Produce Disease? Devorah A. Marks, Aneg Lucia Cortes, John Barnes, Oscar J. Fletcher, and Isabel M. Gimeno |
| 10:15 AM | The Effect of Vaccination on Marek's Disease Virus Shedding Robert F. Silva, Abd A. El-Galil El-Gohary, and John Dunn |
| 10:30 AM | A Comparison Between Marek's Disease Virus Production in Feather Pulp Versus Feather Follicle Epithelium (FFE) John R. Dunn, James B. Finlay, Richard L. Witter, and Robert F. Silva |

| Monday, July 16, 2007 – Morning Program | | |
|--|--|---|
| | Room 207A | Room 207B |
| 10.45 AM | Incubation Conditions and Leg Health in Large High Yield Broilers Edgar O. Oviedo-Rondón, Mike Wineland, Sarah Funderburk, Heather Cutchin, John Small, and Mike Mann | Effect of Vaccination on the Development of Marek's Disease Virus-Induced Eye Lesions Arun K.R. Pandiri, Aneq Lucia Cortes, and Isabel M. Gimeno |
| 11:00 AM | Vertebral Canal Stenosis as a Cause of Lameness in Broilers: Additional Findings Kelli Jones, H. John Barnes, Kenneth C. Powell, and Suzanne Y. Stamey | Relationship Between Load of Marek's Disease Vaccine DNA in Peripheral Blood and Level of Protection Aneq Lucia Cortes and Isabel M. Gimeno |
| 11:15 AM | State Quarantines of Respiratory Disease Found at Auction: Lessons Learned Donna J. Kelly | Pathogenesis of Serotype 1 Marek's Disease Vaccines in the Lung Isabel M. Gimeno and Aneq L. Cortes |
| 11:30 AM | Chromium Associated Discoloration of Egg Yolks in a Backyard Flock H. M. Opitz, Tiffany A. Wilson, Bruce R. Hoskins, Dawna J. Beane, and Xi Wang | Recombinant Marek' disease virus lacking the oncogene Meq as a candidate for future control of Marek's disease in chickens Lucy F. Lee, Sanjay Reddy and Kenton Kreager |
| 11:45 AM | Differential Diagnosis of Liver Hemorrhage in Laying Hens Craig Riddell | Functions of Marek's Disease Virus MicroRNAs Robin W. Morgan, Amy S. Anderson, Erin L. Bernberg, Emily Huang, Grace Isaacs, Milos Markis, and Joan Burnside |
| LUNCH NOON – 1:00 pm | | |
| Monday, July 16, 2007 – Afternoon Program | | |
| | Moderator: Hector Cervantes | Moderator: Richard Fulton |
| 1:00 PM | Field Experiences in Commercial Broilers with an <i>In Ovo</i> Coccidiosis Vaccine Andrea J. Sinclair, David Kelly, Rebecca Poston, Cherilyn Heggen-Peay, Larry Charniga, Lynn Murray, and Vivian Doelling | Evaluation of Different Hemagglutinin-Neuraminidase (HN) Chimeras Using a Newly Developed Reverse Genetic System Based on the Mesogenic Anhinga Newcastle Disease Virus Strain Carlos Estevez, Qingzhong Yu, Daniel King, and Patti Miller |
| 1:15 PM | Eimeria Shedding Patterns Under Various Environmental and Coccidiosis Management Programs Linnea J. Newman and Greg F. Mathis | Newcastle Disease Virus Isolates from US Waterfowl Reveal Novel Genomic Subgroups with Diverse and Evolving Genetics L. Mia Kim, Daniel J. King, David E. Swayne, David Stallknecht, Richard D. Slemons, Janice C. Pedersen, Dennis A. Senne, Kevin Winker, and Claudio L. Afonso |
| 1:30 PM | Comparison of <i>Eimeria</i> Species Composition Between High-Performance and Low-Performance Broiler Operations Mark C. Jenkins, Spangler Klopp, Donald Ritter, and Katarzyna Miska | Presence of Newcastle Disease Virus and Avian Influenza Virus in Wild Birds at the Peruvian Coast Armando Gonzalez, Eliana Icochea, Rosa Gonzalez, Bruno Gherzi, and David Blazes |
| 1:45 PM | Analysis of Gene Expression in the Intracellular Stages of the Poultry Parasite, <i>Eimeria acervulina</i> Katarzyna B. Miska and Raymond H. Fetterer | Isolation of Exotic Newcastle Disease Virus (ENDV) from Field Collected Flies and Experimental ENDV Infections of Three Arthropod Species Daniel J. King, Seemanti Chakrabarti, Claudio L. Afonso, Alec C. Geery, Carol J. Cardona, and David E. Swayne |

| Monday, July 16, 2007 – Afternoon Program | | |
|---|---|---|
| | Room 207A | Room 207B |
| 2:00 PM | Characterization of Novel Lytic Peptide Secreted by Intestinal Intraepithelial Lymphocytes Infected with Coccidia Hyun S. Lillehoj, Sung Hyun Lee, Doug Bannerman, and Yeong H. Hong | The Macroscopic and Microscopic Pathology Associated with Outbreaks of Exotic Newcastle Disease in Commercial Poultry, and Pigeon Paramyxovirus Infection in Laughing Doves (<i>Streptopelia Senegalensis</i>) in South Africa Neil M. Duncan and Emily P. Lane |
| 2:15 PM | The Use of Chlorine Dioxide as a Disinfectant in a Broiler Hatchery Mark Burlleson, Phil Stayer, John Smith, and Joel Tenney | A “Poult Enteritis Mortality Syndrome” in Guinea fowl: a Pathological and Etiological Study Jean-Luc Guerin, Bertrand Grenier, Cyril Boissieu, and Caroline Lacroux |
| | Break 2:30 PM – 3:00PM | Break 2:30 PM – 3:00PM |
| | Moderator: Suzanne Young Stamey | Moderator: Singh Dhillon |
| 3:00 PM | Enumerating Salmonella in Poultry Samples using a DNA Sequence Capture Combined with Q-PCR Randall S. Singer and Janet M. Anderson | Newcastle Disease Virus Vaccine Potency Determination Karen A. Liljebjelke, Darrell R. Kapczynski, and Daniel J. King |
| 3:15 PM | Is Salmonella Enterica Kentucky a Newly Emergent, Poultry Adapted Strain? John J. Maurer, Adriana Pedroso, Margie D. Lee, Holly Sellers, Erich Linnemann, and Katherine Zamperini | Avian Adeno-Associated Virus-Based Expression of the Newcastle Disease Virus HN Protein for Poultry Vaccination Francisco Perozo, Pedro Villegas, Carlos Estevez, Ivan Alvarado, and Linda Purvis |
| 3:30 PM | Discrimination Between Strains of <i>Salmonella</i> Enteritidis PT13 and PT13a by Comparative Genome Sequencing of the Virulence Plasmid Jean Guard-Bouldin, Cesar Morales, Adam B. Olson, and Matthew W. Gilmour | Development of a Quantitative Light Cycler Real-Time PCR for the Detection of Fowl Adenoviruses Éva Nagy, Nadya Romanova, and Juan Carlos Corredor |
| 3:45 PM | Crop Isolated Lymphoid Follicles and Ileal Peyer’s Patches in Egg-Layer Hens Challenged with <i>Salmonella</i> Enterica Enteritidis Lara E. Vaughn, Peter S. Holt, Randle W. Moore, and Richard K. Gast | Multiple Expressions of Inclusion Body Hepatitis P. A. Stayer, C. Gabriel Senties, and John El-Attrache |
| 4:00 PM | Oligodeoxynucleotides Containing CpG Motifs (CpG-ODN) Confer Protection Against a Lethal Challenge of <i>Salmonella typhimurium</i> Septicemia in Neonatal Broilers Susantha Gomis, Azita Taghavi, Lorne Babiuk, Andrew Potter, Brenda Allan, George Mutwiri, and Andrew Van Kessel | Physiochemical and Molecular Characterization of Adenovirus-Like Virus (Isolate R11/3), The Putative Etiology of Transmissible Viral Proventriculitis James S. Guy, John Barnes, and Fred Fuller |
| 4:15 PM | Construction and Evaluation of Recombinant <i>Salmonella</i> Vaccines Expressing <i>Eimeria</i> Antigen SO7 Vjollca Konjufca, Maria-Dolores Rodrigues, Mark Jenkins, Shifeng Wang, and Roy Curtiss III | Histopathology of Transmissible Viral Proventriculus Caused by Adenovirus-Like Virus (Isolate R11/3) H. John Barnes and James S. Guy |
| 4:30 PM | Effects of RofenAid® Impact on Salmonella Enumeration in the Intestine and Litter and on Performance of Male Broiler Chickens after a Challenge with Salmonella and a Mixed Culture of Coccidia Sharon Heins Miller, Charles Hofacre, and Greg F. Mathis | Effect of Maternal Antibodies on Vaccine-Induced Protection of Turkey Poults Against Virulent Avian Metapneumovirus Subtype C Challenge Binu Velayudhan, Sally Noll, Sagar Goyal, David Halvorson, and Kakambi Nagaraja |
| 4:45 PM | ADJOURN | ADJOURN |

| Tuesday, July 17, 2007 – Morning Program | | |
|---|--|--|
| | Room 207A | Room 207B |
| | Moderator: Timothy Cummings | Moderator: Alejandro Banda |
| 8:00 AM | Molecular Characterization of Reoviruses Isolated from Broilers with Runting and Stunting Syndrome Reveals a Lack of Homogeneity with Current U.S. Vaccine Viruses Holly S. Sellers, Veronica Walker, Erich G. Linnemann, and Guillermo Zavala | IFN-A Regulates Infectious Bursal Disease Virus Induced Macrophage Activation Mahesh Khatri and Jagdev M. Sharma |
| 8:15 AM | Extensive Analysis of Pathogenicity Island PAI 1_{APEC O1} of Avian Pathogenic <i>Escherichia coli</i> Subhashinie Kariyawasam, Lisa K. Nolan, and Timothy J. Johnson | Cell-Mediated Immunity Induced by a Macrophage-Adapted Infectious Bursal Disease Virus Jagdev M. Sharma and Mahesh Khatri |
| 8:30 AM | Analysis of the Complete Genome Sequence of an Avian Pathogenic <i>Escherichia coli</i> Timothy J. Johnson, Subhashinie Kariyawasam, Yvonne Wannemuehler, Paul Mangiamele, Sara J. Johnson, Curt Koetkott, Jerod A. Skyberg, Aaron M. Lynne, James E. Johnson, and Lisa K. Nolan | Identification of Infectious Bursal Diseases Viruses from Several Countries Pedro Villegas, Linda Purvis, Francisco Perozo, and Taylor Barbosa |
| 8:45 AM | Evaluation of Differentially Expressed Proteins Following Serum Exposure in Avian Pathogenic <i>Escherichia coli</i> Steven L. Foley, Cynthia Tyler, and Cheryl Lichti | Impact of IBD Vaccines on the Bursa and Other Immune Tissues of Commercial Broilers Enrique Montiel, Nikki Pritchard, and Julio Cruz-Coy |
| 9:00 AM | Role of Large Plasmids in the Virulence of Avian Pathogenic <i>Escherichia coli</i> Melha Mellata and Roy Curtiss III | Challenge Studies with Infectious Bursal Disease and Chicken Anemia Virus Field Strains Linda B. Purvis, Pedro Villegas, John Smith, and Francisco Perozo |
| 9:15 AM | <i>E. coli</i> Challenge Study in Commercial Broilers by Either Respiratory or Skin Route of Exposure and the Effect of Prior Vaccination With a Live Attenuated (aro-A) <i>E. coli</i> Kalen Cookson and Steve Davis | Efficacy of a Vectorized Commercial Vaccine Against Infectious Bursal Disease in Layers Eliana Icochea, Blanca Talavera, Elmer Dávila, Rosa Gonzalez, John Guzman, and Hermelinda Rivera |
| | Break 9:30 AM – 10:00AM | Break 9:30 AM – 10:00AM |
| | Moderator: Richard Chin | |
| | Lasher History Lecture: 10:00 – 10:30 AM Room 207A | |
| | SPEAKER: Richard Witter Origin and Evolution of the American Association of Avian Pathologists: 50 Years of Dedication and Accomplishment | |
| | AAAP Business Meeting Room 207A 10:30 – 12:00 noon | |
| | Lunch 12:00 noon – 1:00 PM | |

| Tuesday, July 17, 2007 – Afternoon Program | | |
|--|---|---|
| | Room 207A | Room 207B |
| | Moderator: David Ley | Moderator: Peter Woolcock |
| 1:00 PM | A Challenging Case of Suspected <i>Mycoplasma gallisepticum</i> Infection in Broiler Breeders Frederic J. Hoerr, Lanqing Li, Samuel Christenberry, and C. Stephen Roney | REED RUMSEY AWARD: Cellular and Cytokine Responses Associated with Dinitrofluorobenzene-Induced Contact Hypersensitivity in Chicken M.F. Abdul-Careem, D. Bruce Hunter, Melissa D. Lambourne, Hamid R. Haghghi, Niroshan Thantrige-Don, and Shayan Sharif |
| 1:15 PM | Epidemiology of <i>Mycoplasma synoviae</i> Isolates in Georgia from 2000-Present V. A. Laibinis, S. H. Kleven, Louise Dufour-Zavala, and Guillermo Zavala | Serum and Yolk Antibody Titers in Late Stage Broiler Embryos Alan Avakian, Donald Link, and John Dickson |
| 1:30 PM | The Evaluation of <i>Mycoplasma gallisepticum</i> Challenge Routes Naola Ferguson-Noel, Victoria A. Laibinis, Ziv Raviv, Ruth S. Wooten, and Stanley H. Kleven | Validation of a Multiplexed Fluorometric Immunoassay™ (MFIA™) for Health Monitoring of Specific Pathogen Free Chickens Joe H. Simmons, Elena Seletskaja, Theodore Girshik, Rajeev K. Dhawan, and William R. Shek |
| 1:45 PM | Intraspecific Differentiating Real-Time PCR for <i>Mycoplasma gallisepticum</i> Live Vaccine Evaluation Stanley H. Kleven, Ziv Raviv, Scott A. Callison, and N. Ferguson-Noel | Bursal Disease-Marek's Disease Vaccine, Live Marek's Disease Virus Vector, Serotype 3, (VAXXITEK™) Vaccination Effect on NDV Vaccination Schedules in Commercial Broiler Type Birds Rafael Fernandez, Mike McCabe, Francisco Rojo, and Julio S. Cruz-Coy |
| 2:00 PM | Effects of TS-11 Strain <i>Mycoplasma Gallisepticum</i> Vaccination in Broiler Breeders Infection and Immunity on the Breeders and Its Progeny Francisco J. Rojo, Alejandro Rojas, and Rafael J. Fernandez | Antibody-Antigen Complexes Protect Against Chicken Infectious Anemia Virus Infection Karel A. Schat, Priscilla H. O'Connell, and Michael S. Piepenbrink |
| 2:15 PM | Effect of Selected Water Temperatures Used in <i>Mycoplasma gallisepticum</i> Vaccine Reconstitution/Dilution on Color Change Units at Selected Time Intervals Scott L. Branton, Spencer A. Leigh, William B. Roush, Jody L. Purswell, Hammed O. Olanrewaju, and Stephanie D. Collier | The Effect of Vaccination Against Chicken Anemia Virus on Colonization, Shedding and Susceptibility to Infection with <i>Salmonella typhimurium</i> in Broilers Franz Sommer and Carol J. Cardona |
| 2:30 PM | Use of the Microdilution Method for the Detection of the In Vitro Antimicrobial Susceptibility Against Avian Mycoplasmas Ariel M. Ortiz, Ernesto P. Soto, and Clemente F. Lemus | A Study of the Viral Shed of Laryngotracheitis in Cornish Birds at the Processing Plant During a Regional Outbreak and Area Wide LT Vaccination Bret Rings and Steve Breeding |
| 2:45 PM | Antibiotic Resistance in <i>Mycoplasma gallisepticum</i> and <i>Mycoplasma synoviae</i> Isolates from Meat-Type Turkeys in Israel Sharon Levisohn, Irina Gerchman, and Shimon Perk | Challenge Study to Evaluate Vaccine Protection against Infectious Laryngotracheitis Virus (ILTV) Andrés Rodríguez and Maricarmen García |
| 3:00 PM | ADJOURN | ADJOURN |

Scientific program will adjourn at 3:00 PM on Tuesday in order to allow time for participants to attend the

AAAP 50th Celebration Banquet and the AAAP Awards Dinner at:

Grand Hyatt Hotel – Independence A Room -- 5:00 PM

| Wednesday, July 18, 2007 – Morning Program | | |
|---|--|--|
| | Room 207A | Room 207B |
| | Moderator: Kalen Cookson | Moderator: Erica Spackman |
| 8:00 AM | Vertically Transmitted Viral Arthritis (Reovirus) in Commercial Broilers: A Field Case Report Suzanne Young Stamey, Calvin Anthony, Kevin Crider, and Todd Cartwright | Characteristics of a Novel Infectious Bronchitis Virus Isolates from Delmarva Broiler Chickens Jack Gelb |
| 8:15 AM | An Outbreak Of Tenosynovitis in Broilers Caused by Vertically-Transmitted Reovirus J. J. Courtney, M. M. E. Andersen, G. Zavala, H. S. Sellers, and S. M. Williams | Infectious Bronchitis Viruses Isolated in California 2004-2006 Peter R. Woolcock and Carol J. Cardona |
| 8:30 AM | Unusual Case: Hemochromatosis Due to Lead Poisoning in a Wild Mallard Duck Scott D. Fitzgerald, Jessica S. Hoane, and Thomas M. Cooley | Pathogenesis of Infectious Bronchitis Virus in the Fully Functional Oviduct of Unvaccinated Laying Hens Kapil Chousalkar and Juliet R. Roberts |
| 8:45 AM | Vitamin E Deficiency Induced Cardiomyopathy in Commercial Pekin Ducks Richard M. Fulton | The Dynamics of Spray Vaccination for IBV in Commercial Broilers Mark W. Jackwood, Deborah A. Hilt, and Enid T. Mckinley |
| 9:00 AM | Field Report: Acute Sodium Toxicosis in Turkey Poults Charles Corsiglia, Rocio Crespo, Richard Chin, H. L. Shivaprasad, Murugan Subbiah, Birgit Puschner, and Arthur Bickford | Rapid Selection in Chickens of a Subpopulation Within an Attenuated Infectious Bronchitis Virus Vaccine Vicky L. Van Santen, Haroldo Toro, and Kellye S. Joiner |
| 9:15 AM | Effect of Novel Intestinal Anaerobes on Early Development of the Broiler Intestine Margie D. Lee, Brett Lumpkins, Youngiae Cho, and Amy Batal | Risk Factors Associated with the Prevalence of Airsacculitis in Broiler Chickens in Quebec, Canada Rachid Ankouche, Diane Brodeur, Martine Boulianne, and Jean-Pierre Vaillancourt, |
| | Break 9:30 AM – 10:00AM | Break 9:30 AM – 10:00AM |
| | Moderator: Scott Fitzgerald | Moderator: Nathaniel Tablante |
| 10:00 AM | <i>Clostridium perfringens</i> and <i>Clostridium septicum</i> in Commercial Turkeys – Recent Findings Daniel Karunakaran | RICHARD RIMLER PAPER AWARD: Interspecies Transmission: Host Range Determinants of Swine H3N2 Influenza A Virus Transmission from Pigs to Turkeys H. M. Yassine, C-W. Lee, and Y. M. Saif |
| 10:15 AM | Comparison of Level of Necrotic Enteritis in Broilers Vaccinated with Either an Attenuated or Non-Attenuated Live Coccidial Vaccine and Challenged with <i>Clostridium perfringens</i> Greg F. Mathis, Charles Hofacre, Jerry Chapman, and Elleen Katigbak | RCA-Free Recombinant Adenovirus-Vectored Vaccine for Mass Immunization of Poultry Against Avian Influenza H. Toro, D. C. Tang, F. Van Ginkel, and Z. Shi |
| 10:30 AM | Innate Immune Response to <i>Clostridium perfringens</i> and <i>Eimeria maxima</i> in necrotic enteritis Model Hyun S. Lillehoj, Soon S. Park, Patricia C. Allen, Dong Woon Park, Steve Fitz-Coy, and Daniel A. Bautista | Differential Growth of Avian Influenza Virus in Chicken and Duck Cells Luciana Sarmiento, Kristin Zaffuto, Mary Pantin-Jackwood, and Claudio Afonso |

| Wednesday, July 18, 2007 – Morning Program | | |
|---|---|--|
| 10:45 AM | Attempts to Develop an Oral Challenge Model for Gangrenous Dermatitis using <i>Eimeria maxima</i> and <i>Clostridium septicemia</i> Michelle M. Early-Andersen, Jeffery J. Courtney, and Steve R. Collett | Efficacy of Three Inactivated Vaccines Against Challenge with HPAI H5N1 Vietnam/05 Viruses in Ducks Mary J. Pantin-Jackwood, David L. Suarez, Jennifer Pfeiffer, and Luciana Sarmiento |
| 11:00 AM | Development of an Experimental Challenge Model for Cellulitis in Turkeys Anil J. Thachil, Binu T. Velayudhan, David A. Halvorson, and Kakambi V. Nagaraja | Comparison of In Vivo Innate Immune Responses in Lung and Spleen Tissue Following Infection with Asian H5N1 Avian Influenza Viruses in Ducks and Chickens Darrell R. Kapczynski and Mary Pantin-Jackwood |
| 11:15 AM | Different Strains of <i>Campylobacter jejuni</i> Compete for Colonization in Broiler Chicks A. Singh Dhillon and Michael E. Konkel | Surveillance, Testing and Epidemiology of Avian Influenza in the New York Live Bird Market System Susan C. Trock, Michelle Gaeta, Lisa Weisse, Tara Howard, Kimberley Tropea, Adam Holloway, Sung Kim, J. Beeby, Jan Pederson, Dennis Senne, and Edward Dubovi |
| 11:30 AM | Correlation of Experimentally Induced Colisepticemia with Septox Condemnations in Broilers Timothy S. Cummings, Marty Ewing, Floyd Wilson, and Mark Burleson | Using Resident, Wild Mallards as Sentinels for Detecting Low Pathogenic H3, H4, H5, H6, And H7 Type A Influenza Viruses Circulating in Resident, Wild Birds Richard Slemmons, Jacqueline Nolting, Lloyd Alexander, and Dennis Senne |
| 11:45 AM | Antibiotic Resistance Plasmid Eliminated from Poultry Bacteria: New Scientific Evidence to Counter the Expert Critics and Spin-Factories Steven R. Clark and Jeremy J. Mathers | Results of Avian Influenza Monitoring in Wild Birds in Maryland: 2005-2006 Cindy P. Driscoll, Larry J. Hindman, Richard Slemmons, and Dennis Senne |
| 12:00 | Adjourn | Adjourn |

INSTRUCTIONS FOR POULTRY POSTER PRESENTATION

The following is specific information about the 2007AVMA Poultry Poster Presentation:

Location of Poultry Poster Presentation:
Convention Center

Please refer to the Poultry Poster Program for your session number.

NOTE: Posters must be set up before 7:00 AM on Sunday, July 15th.

All posters must be removed by 12:00 PM on Wednesday, July 18th.

Dimensions: Size of the Mounting Board for Poster: 4 feet X 8 feet (48 inches x 96 inches). All posters must fit within the outer edges of the board. All boards will be double sided, so another presenter may be mounting a poster on the other side of the board at the same time.

General Information:

1. Your poster presentations must be available for viewing during the hours scheduled by the Poultry Poster Section.
2. Handouts are permitted. *Sale of any material is strictly prohibited.*
3. Poster sessions are intended to serve as informal discussions and not as lectures or paper reading sessions.
4. Pushpins will be available in the poster areas. Please do not write or paint on the poster boards.
5. Projection equipment and electrical outlets will not be provided in the poster session area.
6. One (1) complimentary convention registration will be provided for the primary author of each poster.

Poster Session
Sunday, July 15 – Wednesday, July 18, 2007
Room 206

Avian Influenza

1. **Histopathological Studies of the Respiratory System of Essential Oil-Treated Broilers Against *Mycoplasma gallisepticum* and/or H9N2 Challenges**
Elie K. Barbour, Rindala G. El-Hakim, Danyelle D. Gerges, Pia A. Nehme, Hussam A. Shalb, and Marc S. Kaadi
2. **Evaluation in Chickens of a Killed NS1 Mutant Avian Influenza Virus Vaccine**
Vinyak Brahmakshatriya, Blanca Lupiana, and Sanjay M. Reddy
3. **Comparative Pathology of H5N1 Highly Pathogenic Avian Influenza Virus Infection in Avian Species in the Orders Anseriformes and Charadriiformes**
Justin D. Brown, David E. Stallknecht, and David E. Swayne
4. **Epidemiological Studies on Avian Influenza Infection in the Migrating Wild Bird**
Seong-Hwan Byun, Min-Jeong Kim, Jeong-Nyeo Kim, and In-Pil Mo
5. **Development of Microsphere-Based Assays for the Detection of H5 and H7 Subtype Avian Influenza Virus**
Wonhee Cha, Megan Strother, Mo Saif, and Chang-Won Lee
6. **Avian Influenza Neuraminidase 1 (N1) ELISA Using Baculovirus Expressed Antigen and its Application on DIVA Vaccination Strategy**
Maricarmen García, Yuru Liu, Xiuqin Xia, David E. Swayne, David L. Suarez, Mark W. Jackwood, and Egbert Mundt
7. **Determination of Pathogenicity of Jordanian Local Isolate of Avian influenza (H9N2) in Broiler-Chickens**
Saad Gharaibeh
8. **Efficacy of Inactivated Vaccine Against Low Pathogenic Avian Influenza (H9N2) in SPF and Commercial Chickens**
Bong-Do Ha, Chang-Hee Lee, Jong-Nyeo Kim, and In-Pil Mo
9. **Sequence Analysis and Phylogenetic Study of the Entire Genome of Three Avian Influenza H9N2 Subtypes from South China**
Mazhar I. Khan, Zhixun Xie, Jianbao Dong, and Xiaofei Tong
10. **Zoning as a Measure to Minimize Avian Influenza Spread During an Epidemic**
Heather Labelle, Jean-Pierre Vaillancourt, Michel Bigras-Poulin, and Alex Thompson
11. **Replication of Influenza Viruses in Chicken-Origin (DF-1) and Quail-Origin (QT-6) Cell Lines**
Chang-Won Lee, Keumsuk Hong, and Megan Strother
12. **Development of a Triplex Fluorescence Microsphere Based Immunoassay (FMIA) for the Detection of Antibodies to Avian Influenza Virus Proteins**
Blanca Lupiani, Douglas S. Watson, and Sanjay M. Reddy
13. **Ups and Downs of Implementation of an Eradication Strategy During an Outbreak of HPAI (H5N1) in Iran**
Seyed Mehdi Mirsalimi and Afshin Hedayati
14. **Efficacy and Safety of the Low Pathogenic Avian Influenza Vaccine (H9N3) in SPF Chickens**
In-Pil Mo, Jung-Eun Kim, Jeong-Hwa Shin, Seong-Hwan Byun, and Jong-Nyeo Kim
15. **Validation of a New Avian Influenza Antibody Blocking ELISA**
R. Munoz, K. Velek, A. Rice, B. Packer, S. Michaud, H. Liauw, and V. Leathers

16. **Genetic and Biological Characterization of the H5N2 Virus Isolated from a Parrot**
Smitha Somanathan-Pillai, David L. Suarez, and Chang-Won Lee
17. **Evaluation of Poultry Diagnostic Tests for Avian Influenza Virus in Duck Origin Samples**
Erica Spackman And Mary J. Pantin-Jackwood
18. **The Importance of Educational Programs in the Prevention and Control of Avian Influenza**
Nathaniel L. Tablante
19. **New Way to Develop Live Influenza Vaccine Candidate Strains**
Leyi Wang, Smitha Somanathan-Pillai, Megan Strother, Keumsuk Hong, Mo Saif, David Suarez, and Chang-Won Lee

Bacteria, Miscellaneous

20. **Case Report: Dactylariosis in Bobwhite Quail**
Joel Cline, J. Scott Helton, and Frederic J. Hoerr
21. **Non-Serotypable *Avibacterium paragallinarum* Infection in Commercial Layers**
A. García, F. Romo, A. M. Ortiz, and P. J. Blackall
22. **The Incidence of *Bordetella avium* in Mississippi Broilers**
Sue Ann Hubbard and Roy D. Montgomery
23. **Serotypes of *Riemerella anatipestifer* Isolated from Commercial Ducks and Vaccination of Ducks with Killed Oil Vaccine in Korea**
Seong-Joon Joh, Pompen Pathanasophon, Yong-Kuk Kwon, Min-Chul Kim, Min-Jeong Kim, Hyuk-Man Kwon, Jae-Hong Kim, and Jun-Hun Kwon
24. **Pathogenic *Campylobacter* in Turkey Production**
Catherine M. Logue, Mohamed K. Fakhr, Jessica L. Thorsness, and Julie S. Sherwood
25. **Cutaneous Candidiasis of the Comb in a Broiler Breeder Flock**
Claudia Osorio, Oscar J. Fletcher, Michael J. Dykstra, and H. John Barnes
26. **In Vitro Adhesion Assays of *Gallibacterium* to Chicken Tracheal or Oviductal Epithelial Cells**
Saúl Ramírez, Andrea Zepeda, Vicente Vegas, Vladimir Morales, Luis Pérez, Soledad Díaz, Henrik Christensen, Anders Miki Bojesen, and Edgardo V. Soriano
27. **Detection of *Avibacterium paragallinarum* By PCR: Conditions of Nasal Swab Samples Submitted To The Diagnostic Laboratory**
Edgardo V. Soriano, Vladimir Morales, Salvador Lagunas, Simón Martínez, Celene Salgado-Miranda, and Patrick J. Blackall
28. **Peritonitis in Egg-Type Chickens Caused by *Gallibacterium anatis* and *Escherichia coli***
Darrell W. Trampel, Yvonne Wannemuehler, and Lisa K. Nolan
29. **Hemadsorption and Hemagglutination of *Ornithobacterium rhinotracheale***
Vicente Vega, Andrea Zepeda, Saúl Ramírez, Pomposo Fernández, Roberto Montes De Oca, Patrick J. Blackall, and Edgardo V. Soriano
30. **Hemadsorption and Hemagglutination of *Gallibacterium* Reference Strains**
Andrea Zepeda, Saúl Ramírez, Vicente Vega, Vladimir Morales, Martín Talavera, Henrik Christensen, Anders Miki Bojesen, and Edgardo V. Soriano

Chicken Anemia Virus

31. **Peruvian Serological Survey for Chicken Anemia Virus in Broiler Chickens**
Rosa Gonzalez, Eliana Icochea, Branko Alva, Xavier Castro Pozo, and Paola Cruz
32. **Mapping of Epitopes of VP2 Protein of Chicken Anemia Virus Using Monoclonal Antibodies**
Xiaomei Wang, Xiaoyan Wang, Honglei Gao, and Yulong Gao

E. coli

33. **Emergence of Antimicrobial Resistance, Class 1 Integrons, and R Plasmids Among Avian *Escherichia coli***
Lisa K. Nolan, Timothy J. Johnson, Yvonne M. Wannemuehler, Jennifer Scaccianoce, and Catherine M. Logue
34. **Creation of an *Escherichia coli* Plasmid Genome Database**
Paul Mangiamele, Timothy J. Johnson, Yvonne M. Wannemuehler, and Lisa K. Nolan
35. **Multiplex PCR Can Distinguish Between Virulent and Commensal Avian *Escherichia coli***
Yvonne Wannemuehler, Timothy J. Johnson, Curt Doetkott, Sandy Cloud Rosenberger, and Lisa K. Nolan

General Diseases And Management

36. **Focal Duodenal Necrosis (FDN) an Emerging Disease Affecting the Layer Industry**
Tammy A. Baltzley and Thomas G. Rehberger
37. **A Case of Acute Intoxication with Monensin in Broiler Chickens**
Elisabeta Bianu and Daniela Nica
38. **High Mortality of Newly Hatched Commercial Meat Turkeys**
Richard P. Chin, Rocio Crespo, Charles Corsiglia, H. L. Shivaprasad, Murugan Subbiah, Franz Sommer, and George L. Cooper
39. **Characterization of Broiler Carcasses Condemned at Processing Plants**
Marty Ewing, Timothy S. Cummings, Floyd Wilson, and Mark Burleson
40. **Proliferative Lung Disease in Broiler Breeder Hens**
Oscar J. Fletcher, Michael Martin, and John Barnes
41. **The Use of a Field Data Collection Software to Aid in a More Informed Decision Making Process in a Production Setting**
Luis B. Gomez and Francisco J. Obispo
42. **Addressing the Continuing Educational Needs of Poultry Producers**
Teresa Y. Morishita
43. **Accidental Poisoning of Geese with Zinc Phosphide**
Daniela Nica and Elisabeta Bianu
44. **Agroterrorism – Is the Threat to Agribusiness Real?**
Robert A. Norton and Mark D. Gorwitz
45. **Histologic Evaluation of the Extramedullary Hemopoietic Tissue in Healthy and Yolk Sac Infected Young Broilers**
C. Gabriel Senties-Cué, Floyd D. Wilson, and Danny L. Magee
46. **Early Diagnosis of Fatty Liver-Hemorrhagic Syndrome in Commercial Layers Using Clinical Biochemistry**
Hyun-Hee So, Min-Jeong Kim, Hwan-Hee Kim, and In-Pil Mo

47. **Biosecurity Multimedia Training: A Follow-Up to the US Poultry & Egg Association Training Program**
Jean-Pierre Vaillancourt, Gene Lambert, Andrew Rhorer, and Charles Beard
48. **Effect of Breeder Flock and Management System on Sibling Turkeys**
Eduardo J. Vivas, Michael P. Martin, Sophia Kathariou, Robin M. Siletzky, and John Barnes
49. **Interesting Microscopic Lesions in Cases Submitted to Poultry Diagnostic And Research Center and Georgia Poultry Laboratory Network**
Susan M. Williams
50. **Routine Histological & Histomorphometric Finding in the Spleen and Bone Marrow of “Small Birds” and Other Carcass Cohorts Condemned at Slaughter Under the Sep-Tox Disposition Category**
Floyd Wilson, Fred Hoerr, Tim Cummings, and Marty Ewing

Immunology, Immunity And Vaccines

51. **Anatomic Histopathology Evaluation of Thymus, Bursa and Spleen from Broilers Chickens Raise in Reuse Litter vs New Litter**
Monica Alba Chinta, Eliana E. Icochea, Pablo S. Reyna, Rosa Gonzalez, Branko Alva, Pilar Vejarano, and Antonio Tambini
52. **Practical Comparison of Spray and Barrel Methods of Vaccine Administration to Broiler Breeder Pullets**
Samuel P. Christenberry, Darryl M. Moore, N. Scott Vanhoy, and Clyde A. Weathers
53. **Development of a Real-Time RT-PCR Assay for Turkey Cytokines**
J. Michael Day and Erica Spackman
54. **US Veterinary Immune Reagents Network**
H. Lillehoj, J. Lunney, C. Baldwin, J. LaBresh, D. Horohov, J. Hansen, N. Miller, E. Bengten, G. Chinchar, M. Wilson, and B. Wagner
55. **Interpreting ELISA Test Results**
Danny L. Magee and Philip A. Stayer
56. **Oligodeoxynucleotides Containing CpG Motifs (CpG-ODN) Induce Predominantly A Th1 Type Immune Response in Neonatal Chickens**
Bhavinibahen Parekh, Susantha Gomis, Suresh Tikoo, Lorne Babiuk, Andrew Potter, Philip Willson, George Mutwiri, and Arshud Dar
57. **Development of Recombinant Antigens for Multiplexed Serologic Monitoring of Specific Pathogen Free Chickens**
Michelle L. Wunderlich, Michael J. Smith, Barry A. Bronson, Rajeev K. Dhawan, and Joe H. Simmons

Infectious Bronchitis Virus

58. **Spike Gene Sequence Analysis of Infectious Bronchitis Virus Vaccine Viruses and Their Genetic Stability In Vivo**
Enid T. Mckinley, Deborah A. Hilt, and Mark W. Jackwood
59. **Cloning of the Pathogenic M41 Strain of Avian Infectious Bronchitis Virus as Bacterial Artificial Chromosome**
Shankar P. Mondal and Elizabeth L. Buckles

Infectious Bursal Disease

- 60. The Use of Gamma Irradiation for the Inactivation of Infectious Bursal Disease Viruses**
Daral J. Jackwood, Susan E. Sommer-Wagner, and Howard Pharo
- 61. Comparison of the VP4 Sequences Among Very Virulent, Pathogenic and Attenuated Infectious Bursal Disease Viruses**
Lester Lefever and Daral J. Jackwood
- 62. DNA Vaccination Conferring Protection of Chickens Against Infectious Bursal Disease by Priming with DNA Vaccine and Boosting with Killed Vaccine**
Tsang Long Lin, Ming Kun Hsieh, and Ching Ching Wu
- 63. Evaluation of the Pathogenicity of Infectious Bursal Disease Viruses from Layer Flocks in the United States**
Daral J. Jackwood, Bollini Sreedevi, Lester J. Lefever, and Susan E. Sommer-Wagner
- 64. Bursal Disease Virus Situation in Mexico: Epidemiology and Phylogenetic Studies**
Maritza Tamayo, Mario Lechuga, and Mauricio Gonzalez
- 65. Infectious Bursal Disease Virus (IBDV) Nonstructural Protein VP5 Contributes to Virulence of Very Virulent IBDV**
Kaori Terasaki, Tsuyoshi Yamaguchi, Kenji Ohya, and Hideto Fukushi
- 66. Molecular Detection and Differentiation of Infectious Bursal Disease Virus: A Review**
Ching Ching Wu, Peter Rubinelli, Ming Kun Hsieh, and Tsang Long Lin
- 67. An Improved Method for Infectious Bursal Disease Virus Rescue using RNA polymerase II System**
Xiaomei Wang, Ziaole Qi, Yulong Gao, and Honglei Gao

Laryngotracheitis

- 68. Differentiation by RFLP and Nucleotide Sequencing of ILTV Strains Isolated During an Outbreak in São Paulo, Brazil**
Jorge Luis Chacón Villanueva, Laura Y. Villarreal, Mario S. Asayag, and Antonio J. Piantino Ferreira
- 69. In Vitro Characterization of Infectious Laryngotracheitis Virus (ILTV) Isolates from United States (US)**
Ivomar Oldoni and Maricarmen García

Miscellaneous Virus

- 70. A Duck Hepatitis Virus Type 1 is Agent Of Pancreatitis and Encephalitis in Muscovy Duckling**
Jean-Luc Guerin, Olivier Albaric, Vincent Noutary, and Cyril Boissieu
- 71. Epidemiological Studies of Adenoviral Infection in the Broiler Farms**
Jong-Nyeo Kim, Seong-Hwan Byun, Min-Jeong Kim, and In-Pil Mo
- 72. Characterization of M-Class Genome Segments of Muscovy Duck Reovirus**
Yun Zhang, Dongchun Guo, and Hongwei Geng

Mycoplasma

73. ***Mycoplasma iowae* Associated with Vertebral Chondrodystrophy in Commercial Turkeys**
David H. Ley, Eduardo J. Vivas, Oscar J. Fletcher, and H. John Barnes

Newcastle

74. **Immunoprotection of a Commercial Vaccine (VG/GA - Strain) Against Newcastle Disease in Broilers Chicken**
Eliana Icochea, Rosa Gonzalez, Pablo Reyna, Jhon Guzman, and Blanca Talavera
75. **Molecular Analysis of Velogenic Newcastle Disease Virus in Avian Species From Venezuela**
Hugo Moscoso, Mariela Brett, Rafael Fernandez, and Charles L. Hofacre
76. **Development of an Immunochromatographic Kit for the Detection of Newcastle Disease Virus**
Haan-Woo Sung, Hyuk-Moo Kwon, JG Choi, JS Oh, and In-Pil Mo

Parasitic Diseases

77. **Effect of Coccidiosis on Serum Alkaline Phosphatase Levels in Chickens**
Chris R. Buckley
78. **Changes in Immune-Related Chicken Cytokine and Chemokine Gene Expression Following *Eimeria* Infection**
Hyun S. Lillehoj and Yeong Ho Hong
79. **Kinetic Analysis of Local Gene Expression Of Duodenum Intraepithelial Lymphocytes Following Primary and Secondary *E. acervulina* Infections**
Hyun S. Lillehoj, Chul Hong Kim, Yeong Ho Hong, Dong W. Park, and Calvin L. Keeler, Jr.
80. **Cytokine Gene Expression Profile in Fayoumi Chicken After *Eimeria maxima* Infection**
Hyun S. Lillehoj, Kyung Kim Duk, Yeong Ho Hong, Dong Woon Park, and Susan J. Lamont
81. **Immunomodulatory Effect of Dietary Safflower Leaf on Coccidiosis**
Hyun S. Lillehoj, Sung-Hyen Lee, Soo-Muk Park, Dong-Woon Park, Yeong-Ho Hong, Duk-Hyung Kim, Hye-Kyung Chun, and Hong-Ju Park
82. **Comparative Coccidial Oocyst Shedding Patterns of Turkeys Given Coccivac-T**
Greg F. Mathis, Charles Broussard, and Linnea J. Newman

Pneumovirus

83. **Molecular Characterization and Phylogenetic Analysis of Subtype B Avian Metapneumovirus Detected from Brazilian Commercial Flocks**
Jorge Luis Chacón Villanueva, Antonio C. Pedroso, Laura Y. Villarreal, Paulo E. Brandão, Antonio J. Piantino Ferreira
84. **Immunization of Broiler Chickens Against Avian Metapneumovirus Infection**
Eliana Icochea, Mercedes Sialer, Raúl Guillermo, Rosa Ríos, Rosa Gonzalez, Pablo Reyna, and Jhon Guzman

Salmonella

85. **CAUTION – Diagnostic Laboratory Data on Salmonella Testing Being Presented**
Bruce R. Charlton, Hailu Kinde, and Mark Bland
86. **Plasmid Mediated Antibiotic Resistance in *Salmonella enterica* Serovar Heidelberg from Turkeys**
Aaron M. Lynne and Steven L. Foley
87. **Development and Preliminary Evaluation of a Live Recombinant Vaccine Based on the *sefABCD* Fimbrial Operon to Elicit Immune Response in Chickens Against *Salmonella enterica* Serotype Enteritidis**
K. V. Nagaraja, Vanessa Burkas, Binu Velayudhan, and David Halvorson
88. **Organic Acid Water Treatment Reduced Salmonella Horizontal Transmission in Broiler Chickens**
Marco A. Quiroz, Charles L. Hofacre, Greg F. Mathis, Julia Dibner, and Chris Knight
89. **Functions Exerted by the Type Three Secretion Systems (TTSS) During *Salmonella enteritidis* Infection of Chicken Reproductive Epithelial Cells and Macrophages**
Shuping Zhang, Shuhui Li, Mike Zhang, Hyun S. Lillehoj, Lanny Pace, and Danny Magee

Tumor Viruses

90. ***In Vitro* Transformation Properties of the Meq Protein of MDV**
Dharani K. Ajithdoss, Blanca Lupiani, Lucy Lee, and Sanjay M. Reddy
91. **Effect of Adding an Antibiotic to a Marek's Disease Vaccine**
Celina Buscaglia

New Orleans
2008