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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00</td>
<td>The Toxicity Effects of Feeding 1 Alpha Hydroxy D3 to Broiler Breeding Hens</td>
<td>Bret Rings, Fred Hoerr, Scott Gustin, John Halley</td>
</tr>
<tr>
<td>8:15</td>
<td>A Natural Outbreak of Toxoplasmosis in a Backyard Flock of Guinea Fowl in Mississippi</td>
<td>Kelli H. Jones, Floyd D. Wilson, Scott D. Fitzgerald, Matti Kiupel</td>
</tr>
<tr>
<td>8:45</td>
<td>Diagnosis: MG/MS in a Backyard Flock. Is Control Possible?</td>
<td>Patricia S. Wakenell and Daniel Wilson</td>
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<tr>
<td>9:00</td>
<td>vvNDV in South MS?</td>
<td>Philip A Stayer, Floyd D Wilson, Jackson L McReynolds</td>
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<tr>
<td>9:15</td>
<td>A Good Case for Insomnia: Bedbug Infestation in Broiler Breeders</td>
<td>Sue A. Hubbard, Jason Cater, Danny L. Magee</td>
</tr>
<tr>
<td>9:30</td>
<td>Necrotizing Hepatitis in Pigeons due to Toxoplasma gondii</td>
<td>Richard M. Fulton, Matti Kiupel</td>
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<tr>
<td>10:15</td>
<td>Avian Encephalomyelitis in Pen-Raised Bobwhite Quail</td>
<td>Douglas A. Anderson</td>
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<tr>
<td>10:30</td>
<td>Infectious Coryza in a Commercial Broiler Breeder Flock</td>
<td>G. Donald Ritter</td>
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<tr>
<td>10:45</td>
<td>Ulcerative Enteritis-like Disease associated with Clostridium sordellii in Quail</td>
<td>H.L. Shivaprasad, Monique Franca and Rocio Crespo</td>
</tr>
<tr>
<td>11:00</td>
<td>“Silent” Histomoniasis on a Brooder Farm</td>
<td>Mark Blakley, DVM</td>
</tr>
<tr>
<td>11:15</td>
<td>Otitis Externa in Chickens due to Staphylococcus hyicus?</td>
<td>Richard M. Fulton, Jeffrey G. Hunchard</td>
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<tr>
<td>11:30</td>
<td>Hemorrhagic Proventriculitis and Ventriculitis in Layer Pullet Chicks</td>
<td>C. Gabriel Senties-Cué, J. Kelly, and B.R. Charlton</td>
</tr>
<tr>
<td>11:45</td>
<td>Detailed Analysis of 2009-2011 ELISA Serological Data from the GA Poultry Industry</td>
<td>Louise Dufour-Zavala</td>
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<tr>
<td>12:15-2:45 PM</td>
<td>AAAP Awards Luncheon</td>
<td>Crystal Ballroom at the Renaissance Hotel</td>
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<tr>
<td>3:45 PM</td>
<td>Pathology Associated with a Chicken Astrovirus Isolated from Broiler Chickens with Running and Stunting Syndrome</td>
<td>Guillermo Zavala, Sunny Cheng, Corrie Brown, Julia Zhang</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Comparative Pathology of Diseases of Tendons in Broilers and Broiler Breeders</td>
<td>Frederic J. Hoerr</td>
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<tr>
<td>4:30 PM</td>
<td>The Efficacy Two <em>Mycoplasma gallisepticum</em> Vaccines in Laying Hens</td>
<td>Naola Ferguson-Noel, Susan Williams, Victoria Laibinis</td>
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<tr>
<td>4:45 PM</td>
<td>Tracking Infectious Laryngotracheitis CEO Vaccine: Field to Processing</td>
<td>Denise L Brinson, Maricarmen Garcia, Guillermo Zavala, Sylva Riblet, Len Chappell, Louise Dufour-Zavala, Ariel Vagnozzi, Peter O'Kane, Rodrigo Espinosa</td>
</tr>
<tr>
<td>5:00 PM</td>
<td>Compatibility of Vectored LT Vaccines and Vectormune HVT NDV</td>
<td>Alecia Godoy, Motoyuki Esaki, Peter Flegg, John K. Rosenberger, Sandra Rosenberger, Kiels Moire Dorseay, Yannick Gardin</td>
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<tr>
<td>5:15 PM</td>
<td>The Effect of Vectored HVT+IBD (Vaxxitek® HVT + IBD) Vaccination on Body Weights, Uniformity and Virus Shedding in Commercial Broilers</td>
<td>Adrian T. Garrity</td>
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<tr>
<td>5:30 PM</td>
<td>Protection and Virus Shedding After Challenge With Various Infectious Bursal Disease Virus Isolates in Commercial Broilers Vaccinated with a Vector HVT+IBD Vaccine</td>
<td>Enrique Montiel, Nikki Pritchard, David Smith</td>
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<td>Time</td>
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| 8:00 AM | Global Gene Expression Analysis to Compare Intestinal Transcriptional Responses against Three Major Eimeria Species, *E. acervulina*, *E. maxima* and *E. tenella*  
Hyun S. Lillehoj, Duk Kyung Kim, Chul Hong Kim |  
Immuno-pathogenesis of Infectious Bursal Disease Virus in Chickens  
Abdul Rauf, Mahesh Khatri, Maria V. Murgia, Yehia M. Saif |  
| 8:15 AM | A New Species of Eimeria (Apicomplexa: Eimeriidae) of Turkeys (*Meleagris gallopavo*)  
Steve H. Fitz-Coy | Detection and Differentiation of High and Low Pathogenic Strains and Reassortant Infectious Bursal Disease Viruses by a Multiplex RT-PCR/RFLP Assay that Simultaneously Analyze Both Genomic Segments  
Martin Hernandez, G. Tomas, D. Hernandez, P. Villegas, A. Banda, L. Maya, Y. Panzer, R. Perez |  
| 8:30 AM | Nicarbazin: Field Experiences Improving Intestinal Health  
Jaime Ruiz, Hector Cervantes, Ken Bafundo | Massively Parallel cDNA Sequencing (RNA-Seq) Analysis of Immune Tissues from IBDV-Infected Birds  
Calvin L. Keeler, Jr., Cynthia Boettger, Michele N. Maughan, John K. Rosenberger, Carl Schmidt |  
| 8:45 AM | Case Study: Economic Consequences of Weather and Coccidiosis in One U.S. Broiler Integration  
Linnea J. Newman, Robert Teeter | Natural Reassortants of Very Virulent Infectious Bursal Disease Virus (vIBDV) Containing Genetic Elements from Both Serotype 1 and 2 Viruses  
Darla J. Jackwood, Susan E. Sommer-Wagner, Beate M. Crossley, Simone T. Stout, Peter R. Woolcock, Bruce R. Charlton |  
| 9:00 AM | Working with Coccivac D in a Dry Climate  
Jenny A. Fricke, Tom E. Inglis | Combining FTA Card with Reverse Genetics Allows Characterization of the Antigenicity of Infectious Bursal Disease Viruses on a Global Scale  
Vijay Durairaj, Holly S. Sellers, Egbert Mundt |  
| 9:15 AM | An Alternative Method of Delivering Eimeria Oocyst Vaccines to Protect Against Avian Coccidiosis  
Mark Jenkins, Spangler Klopp, Donald Ritter, Raymond Fetterer, Katarzyna Miska | A Prime-Boost Approach for DNA-Mediated Vaccination against Infectious Bursal Disease in Broiler Chickens with Maternal Antibody  
Ching Ching Wu, Mingkun Hsieh, Tsang Long Lin |  
| 9:30 AM | Attenuation of Development of *Eimeria maxima* following Gamma Irradiation  
Raymond H. Fetterer, Mark C. Jenkins, Ruth C. Barfield | Biological Monitoring of Vaccine Take and Productive Parameters in Broilers Vaccinated with Immune Complex and Recombinant Vector Vaccines against Infectious Bursal Disease  
Luiz Sestl, Carlos Kniepp, Yannick Gardin, Branko Alva |  
| 9:45 AM | BREAK | BREAK |  
| 10:15 AM | Effect of Montanide ISA 71 VG on Recombinant Coccidia Antigen Vaccination  
Sébastien Deville, Laurent Dupuis, François Bertrand, Erik P. Lillehoj, Sung Hyen Lee, Kyung Woo Lee, Myeong Sun Park, Seung I. Jang, Hyun S. Lillehoj | Pathogenicity and Molecular Detection of Chicken Anemia Virus in Commercial Broiler Farms in Venezuela  
Luz M. García, Antonio E. Valera, Victor Bermudez, Mariano Salem, Mariela Brett |  
| 10:30 AM | The Synergistic Effects of Plant-Derived Nutritional Mixtures on Recombinant Antigen Vaccination against Avian Coccidiosis  
Hyun S. Lillehoj, Sung Hyen Lee, Seung I. Jang, Kyung Woo Lee, Myeong Seon Park, David Bravo | Detection of Chicken Infectious Anemia Virus Infection in Broiler Breeder Pullets by Non-Conventional Method  
Rodrigo Espinosa, Sunny Cheng, Guillermo Zavala, Denise Brinson, Peter O'kane |  
| 10:45 AM |  
Quantitative Analytical Technique Applied to Histopathology of Birds Infected Experimentally by Chicken Anemia Virus  
Luz M. García, Antonio E. Valera, Mariela Brett, Luzmila Peroza, Keilyn C. Garcia, Johana Fragozo |  
| 11:00 AM | Investigations about the Etiology of Runting Stunting Syndrome Affected Chickens by In Situ Hybridization  
Kyung-il Kang, Holly S. Sellers, Eric Linneman, Taejoong Kim, Egbert Mundt |  
| 11:15 AM | Characterization of a Novel Chicken Astrovirus Isolated from Intestinal Homogenates of RSS-Affected Chickens  
Egbert Mundt, Taejoong Kim, Kyung-il Kang, Eric Linneman, Holly S. Sellers |  
| 11:30 AM | Role Of Maternal Antibodies in Protection Against Chicken Parvovirus-Induced Runting-Stunting Syndrome  
Laszlo Zsak, Ra Mi Cha, J. Michael Day |  
<p>| 12:00 PM | Lunch |  |</p>
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>1:15 PM</td>
<td>Lasher-Eckroade History/ WPSA Lecture: Dr. Greg Mathis</td>
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<td>The History of the Poultry Industry: Scientific Breakthroughs</td>
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<td>2:15 PM</td>
<td>AAAP Business Meeting</td>
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<td>2:15 – 3:45 PM</td>
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<td>4:00 PM</td>
<td>Wine &amp; Cheese Social in Poster Room</td>
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<td>6:00 PM</td>
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## Tuesday, July 19, 2011 – Morning Program

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<tr>
<th>Time</th>
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<th>Moderator:</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Development of a Molecular Typing Method for Enterococcus <em>cecorum</em></td>
<td>D. S. Wijetunge, J. Blair, P. Dunn, E. Wallner-Pendleton, V. Lintner, S. Kariyawasam</td>
<td>Infectious Bronchitis Virus in California 2003-2010: A Review</td>
<td>Peter Woolcock</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>An Evaluation of Optimal Methods for Avian Influenza Virus Sample Collection</td>
<td>Erica Spackman, Enid T. McKinley</td>
<td>Evaluation of Possible Interference between Arkansas and Massachusetts Vaccine Serotypes</td>
<td>Eunice N. Ndegwa, Samantha Bartlett, Vicky L. van Santen</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>New Approaches to Develop Improved Molecular Diagnostic Essays for Infectious Diseases [Assay Design]</td>
<td>Hayet Abbassi</td>
<td>*** REED RUMSEY AWARD (BASIC)*** Interactions Between Multivalent Attenuated Live Infectious Bronchitis Virus Vaccines in 1-Day-Old Chickens</td>
<td>Ha-Jung Roh, Deborah A. Hilt, Mark W. Jackwood</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>New Approaches to Develop Improved Molecular Diagnostic Essays for Infectious Diseases [Optimization and Validation]</td>
<td>Hayet Abbassi</td>
<td>The Pathogenicity of Avian Metapneumovirus Subtype C (aMPV/C) Isolates from Wild Birds in Domestic Turkeys</td>
<td>Ra Mi Cha, Qingzhong Yu, Laszlo Zsak</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Fowl Cholera Vaccination of Pen-Raised Ring-Necked Pheasants with Commercially Available Vaccines</td>
<td>Douglas A. Anderson</td>
<td>*** RICHARD B. RIMLER MEMORIAL PAPER*** Reverse Genetic Studies of Avian Paramyxovirus Type-3</td>
<td>Sachin Kumar, Baibaswata Nayak, Peter L Collins, Siba K Samal</td>
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<td>9:45 AM</td>
<td>Break</td>
<td>Moderator:</td>
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<tr>
<td>10:00 AM</td>
<td>Retrospective study of Novel Picornavirus associated with Turkey Viral Hepatitis</td>
<td>H.L. Shivaprasad, Kirty H. Honkavoulu, Thomas Briese, W. Ian Lipkin</td>
<td>Replication of Recombinant Herpesvirus of Turkey Expressing Genes of Infectious Laryngotracheitis Virus (LT-rHTV) Following In Ovo and Subcutaneous Vaccination</td>
<td>Aneg L. Cortes, Elizabeth Turpin, C. Williams, Isabel M. Gimeno</td>
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<tr>
<td>10:15 AM</td>
<td>Detection of Lymphoid Leukosis Tumors in White Leghorn Chickens of Line alv6 that is Resistant to Subgroups A and E Avian Leukosis Virus and Maintained Under Specific Pathogen-Free Conditions</td>
<td>Aly M. Fadly, Jody K. Mays, Raj Kulkarni</td>
<td>Field Experiences of the Hatchery Subcutaneous HVT + ILT Recombinant (INNOVAX) Vaccine in Table Egg Layers</td>
<td>Hugo A. Medina</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Current Status of the National Poultry Improvement Plan</td>
<td>C. Stephen Roney</td>
<td>Comparative Analysis of Infectious Laryngotracheitis Virus (ILTV) Live-Attenuated Vaccines and Virulent Isolates Genomes</td>
<td>Maricarmen Garcia, Stephen Spatz, Sylvia Riblet, Egbert S. Mundt, James S. Guy</td>
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<tr>
<td>11:00 AM</td>
<td>Significant Poultry Disease Notifications in Arkansas, Missouri, and Oklahoma: A Model Voluntary System</td>
<td>James T. Barton</td>
<td>Management Procedures Used to Control ILT on Commercial Broiler Farms</td>
<td>J. J. Giambonne, Shan-chia Ou, K.S. Macklin</td>
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<tr>
<td>11:45 AM</td>
<td>Characterization of APEC Isolates from Broilers in Latin America</td>
<td>Taylor M. Barbosa, Elizabeth Turpin, Lisa K. Nolan</td>
<td>Construction of Recombinant Newcastle Disease Viruses Expressing Chicken IL2: Effect of Elevated Levels of Expression on the Transcriptional Host Response, Viral Replication and Pathogenesis</td>
<td>Ingrid Cornax, Leonardo Susta, Stivalis Cardenas, Patti J. Miller, Corrie C. Brown, Claudio L. Afonso</td>
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<td>12:00 PM</td>
<td>Lunch</td>
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<td>1:00 PM</td>
<td>Molecular Characterization of Mycoplasma gallisepticum Isolated from Chicken and Turkey</td>
<td>Sabry I. Elissa, Abd El-Wahed M. Hassan, Ashraf M. Metwally, Yousseya M. Hashem, Eid A. Abd El-Aziz</td>
<td>Multiyear Surveillance of Avian Influenza on Wild Waterfowl on the Texas Coast</td>
<td>Blanca Lupiani, Pamela J. Ferro, Owaits Khan, Christine M. Budke, Markus J. Peterson, Dayna Willems, Emily Roitsch, Todd Merendino, Matt Nelson</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Pathogenicity of Mycoplasma gallisepticum Strains Using ELDS0 in Embryonated Chicken Eggs</td>
<td>Michelle Farrar, Ruth Wooten, Victoria Laibinis, Naola Ferguson-Noel</td>
<td>Surveillance of Avian Influenza Virus in Grenada, West Indies</td>
<td>Ravindra N. Sharma, Devaki S. Arathy, Keshap P. Tiwari, Sachin Kumthekar, Gopakrishnan P. Sabarinth</td>
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<tr>
<td>1:30 PM</td>
<td>Evaluation of Three DNA Extraction Methods for the Detection of Mycoplasma Spp. with an MG/MS Multiplex Realtime PCR Method</td>
<td>Bwalya Lungu, Naola Ferguson-Noel</td>
<td>Selective Isolation of Avian Influenza Virus from Cloacal Samples Containing Mixed Infection of Avian Influenza and Newcastle Disease Viruses</td>
<td>Mohamed E. El Zowalaty, Yogesh Chander, Hemmat K. Abd El Latif, Mona A. El Sayed, Patrick T Redig, Sagar M. Goyal</td>
</tr>
<tr>
<td>1:45 PM</td>
<td>Experiences in the Use of a Live MG Vaccine in Northeast Georgia</td>
<td>Len Chappell</td>
<td>Evaluation of Primer and Probe Mismatches in Sensitivity of Select RRT-PCR Tests for Avian Influenza</td>
<td>David L. Suarez</td>
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<tr>
<td>2:00 PM</td>
<td>Use of MG/MS Serology and PCR to Determine Flock Status</td>
<td>Brenda Gleadwell</td>
<td>Evaluation of Neuraminidase (NA) Subtypes 1 and 2 ELISAs for Detection of Avian Influenza Vaccinated/Infected Poultry Using an NA Heterologous Vaccination Strategy</td>
<td>Aline Reis, Alice Mundt, Olivia Bowen, David L. Suarez, Egbert S. Mundt, Maricarmen Garcia</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>A Survey of Recent Mycoplasma synoviae vhA Sequence Types in the Southeastern United States</td>
<td>Victoria A. Laibinis, Naola Ferguson-Noel</td>
<td>Pathogenicity of Reassortant H5N1 Highly Pathogenic Avian Influenza Viruses in Domestic Ducks</td>
<td>Mary Pantin-Jackwood, Jamie Wasilenko, Caran Cagle</td>
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<tr>
<td>2:45 PM</td>
<td>Amplified Fragment Length Polymorphism (AFLP) Analysis of Historic and Recent Mycoplasma iowae Isolates</td>
<td>Amy Wetzel, Ziv Raviv</td>
<td>Expression and Distribution of Sialic Acid Receptors in Tissues of Wild Birds</td>
<td>Monique Franca, David E. Stalknecht, Elizabeth W. Howerton</td>
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<td>3:45 PM</td>
<td>Toll-Like Receptors and Cytokines Profile of Chicken Challenged with Clostridium perfringens and Fed Organic Diets Supplemented with MOS</td>
<td>Jessica Brady, Alexander Yilbarek, Harold Echeverry, Shayan Sharif, Bill Guenter, James D. House, Juan C. Rodriguez-Lecompte</td>
<td>Virus-specific Antibodies Interfere with Avian Influenza Infection in Peripheral Blood Mononuclear Leukocytes from Young or Aged Chickens</td>
<td>Olivia T. Bowen, Darrell R. Kapczynski, Mary J. Pantin-Jackwood, Caren Cagle, David L. Suarez</td>
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<tr>
<td>4:45 PM</td>
<td>Use of a Repeatable Model Creating Significant Clostridium Dermatitis Mortality in Turkeys to Determine Management and Other Risk Factors that Affect the Severity of the Disease</td>
<td>Stephen W. Davis</td>
<td>Virus versus vaccine: Variants of Highly Pathogenic Avian Influenza Virus H5N1 from Egypt</td>
<td>Christian Grund, EM. Abdelwahab, Abdel-Satar Arafa, Mario Ziller, Mohamed K. Hassan, Mona A. Aly, Hafez M. Hafez, Timm C. Harder, Martin Beer</td>
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**Avian Influenza**

The Effects of Interspecies Adaptation to Different Poultry on a Wild Bird Origin H5N1 Low Path Avian Influenza Viral Genome  
*Brian S Ladman, Jack Gelb, Jr., Richard Slemons, Conrad R. Pope, Erica Spackman*

Evaluation of cytokine gene expression after avian influenza virus infection in avian cell lines and primary cell cultures  
*Caran Cagle, Olivia Bowen, Jamie Wasilenko, and Mary Pantin-Jackwood*

Replication of swine-lineage influenza virus in juvenile and adult turkey hens  
*Chang-Won Lee, Ahmed Ali, Hadi Yassine, Mahesh Khatri, Yehia M. Saif*

Natural infection of H5N1 Avian Influenza in Budgerigars and Zebra finches  
*Ghada S. Moussa*

 Highly pathogenic Avian Influenza H5N1 Natural Infection in Domestic and Free Living Water Fowls in Egypt  
*Ghada S. Moussa*

Application of Statistical Text Analytics to Avian Influenza Scientific Literature  
*David M Carpenter, Kenneth S Macklin, Greg S Weaver, Wallace D Berry, Robert A Norton*

Breaks of H5N1 Avian Influenza in Previously Vaccinated Chicken Flocks  
*Salah Moussa and Omar K. Amen*

Sequencing of H5N1 virus circulating in Egypt  
*Salah Moussa and Omar Amen*

**Antibiotics**

Salmonella spp, Escherichia coli and Campylobacter spp in chickens: updates on antimicrobial resistance trends, patterns and recovery rates in Canada  
*A. Agunos, B. Avery, C. Carson, A. Deckert, L, Dutil, S. Gow, D.Légr, J. Parmley, M. Tessier, R. Reid-Smith, R. Irwin*
Bacterial

Characterization of Ornithobacterium rhinotracheale from commercial chicken and turkey flocks in Russia
A. V. Chernyshev, A.V. Sprygin, O.I. Ruchnova, N.S. Mudrak, O.V. Pruntova, V.V. Drygin

Prevalence of Salmonella, Campylobacter and E. coli in Wild Game Birds 2009/2010 Season
Catherine M. Logue, Julie S. Sherwood, Ross Bergquist and Courtney Sletten

Evaluation and validation studies of real-time PCR assay for the detection of Chlamydophila psittaci
Huaguang Lu, Susanne Myers, Rhiannon Schneider, Lin Lin

Case Report

Aspergillus fumigatus in Day-Old Broiler Chicks: What Does It Mean?
Danny L. Magee, Sue Ann Hubbard, Floyd D. Wilson

Macrorhabdus ornithogaster (Megabacterium) Infection in Adult Hobby Chickens in the North Georgia Mountains, USA
Elena L. Behnke, Oscar J. Fletcher

A case of unilateral periorbital cellulitis and mandibular osteomyelitis in a turkey flock
Jean-Luc Guerin, Alain Cadec, Olivier Albaric, Marie-Noelle Lucas, Jean-Yves Douet, Leni Corrand

Enteritis and Elevated Mortality in Young Guinea Fowl

Clostridium

Efficacy of BMD versus Probiotics in the Feed for the Control of Necrotic Enteritis by Clostridium perfringens in Broiler Chickens
Sharon Heins Miller and Stephen W. Davis

Diagnostics Epidemiology

Comparison of Incidence of Poultry Diseases in Commercial and Noncommercial Poultry in North Alabama
Samuel P. Christenberry, Frederic J. Hoerr, Susan B. Lockaby, Julia D. Bright, Leanne Waldrep
**E. coli**

Characterization and distribution of Avian Pathogenic Escherichia coli isolates from broilers in Peru
Claudia Carranza, Anthony Neumann, Christopher Kromm, Néstor Falcón, Ricardo León

Serum Survival in Avian Pathogenic Escherichia coli
Lisa K. Nolan and Ganwu Li

Characterization of attaching and effacing Escherichia coli (AEEC) isolated from poultry
T. N. Denagamage, J. Blair, and S. Kariyawasam

**Infectious Bronchitis Virus**

Pathogenicity of Colombian Infectious Bronchitis Virus Isolates
Andres Rodriguez-Avila, Gerardo Quiñones-Chois, Nathalia Bermudez and Maricarmen Garcia

Interactions between multivalent attenuated live infectious bronchitis virus (IBV) vaccines in one-day old chickens
Ha-Jung Roh, Deborah A. Hilt, Mark W. Jackwood

Host Driven Selection of Infectious Bronchitis Virus
J. E. Phillips, S. Thor, D. A. Hilt, and M. W. Jackwood*

Phylogenetic analysis and identification of infectious bronchitis virus (IBV) strains worldwide
Mark W. Jackwood, Deborah A. Hilt

**Infectious Bursal Disease**

Correlation between phylogenetic topology and antigenic properties determined by virus neutralization of field infectious bursal disease viruses detected in U.S. during 2009 and 2010.
Alejandro Banda, T. Tabor, and R. Mackey.

Molecular diversity in the hypervariable region of VP2 from infectious bursal disease viruses.
Daral J. Jackwood and Susan E. Sommer-Wagner

Reassortant Infectious Bursal Disease Viruses from California with a vvIBDV Genome Segment A and a Serotype 1 non-vvIBDV Segment B.
Simone Stoute, Daral J. Jackwood, Susan E. Sommer-Wagner, Beate M. Crossley, Peter R. Woolcock, and Bruce R. Charlton
**Immunology**

Kinetics of anti-cryptosporidia antibody response, oocyst shedding and bursa/body weight ratios in SPF white leghorn chickens infected with Cryptosporidium baileyi oocysts at different ages.  
*Hayet Abbassi and Muriel Naciri*

Effects of novel nanoparticle adjuvant Montanide™ IMS 1313 N VG on mucosal vaccination of poultry against Eimeria acervulina  
*Hyun S. Lillehoja, Seung I. Janga, Sung Hyen Leea, Kyung Woo Leea, François Bertrandb, Laurent Dupuisb, Sébastien Devilleb*

An essential role of Avian Interleukin (IL)-22 as immune mediator during inflammatory response  
*Sungwon Kim, Laura L. Faris, Ray H. Fetterer, Kate B. Miska, Mark C. Jenkins, Rami A. Dalloul*

**Laryngotracheitis**

Glycoprotein J and glycoprotein I specific ELISA for the detection of ILT  
*Alice Mundt and Maricarmen Garcia*

Exploration of the early mechanisms involved in the immune protection against the Infectious laryngotracheitis virus infection  
*Ariel Vagnozzi, Maricarmen García, Sylva Riblet, Guillermo Zavala, Roselene Ecco, Claudio Afonso*

Whole genome sequencing of infectious laryngotracheitis  
*Cynthia M. Boettger and Calvin L. Keeler Jr.*

**Management**

South Carolina Ag-Watch Program - An Awareness and Response Program for Food & Agriculture Producers, Processors and Responders  
*Julie D. Helm, Charlotte A. Krugler, Christel F. Harden*

Effects of Egg Remover on Bone Development at Hatch, and Male Broiler Live Performance and Leg Health at Market Age under Commercial Conditions  
*Edgar O. Oviedo-Rondón, Manuel J. G. Costa, Marcelo R. Dalmagro, Caitlin Evans, Catherine Miller, and Michael J. Wineland*
Mycoplasma

Virulence Evolution of Mycoplasmal Conjunctivitis in House Finches
David H. Ley, Dana M. Hawley, Erik E. Osnas, Andy P. Dobson, Keila V. Dhondt, Karel A. Schat, Wesley M. Hochachka, André A. Dhond

Phylogenetic Analysis of Mycoplasma synoviae Isolated from the chickens with history of clinical signs
Eunok Jeon, Kiyoun Jung, Inpil Mo

Sequencing of South African Mycoplasma gallisepticum Isolates Reveals Novel Genotypes
Natalie K. Armour, Victoria Laibinis, Naola Ferguson-Noel

Revised Amplified Fragment Length Polymorphism (AFLP) Protocol for Avian Mycoplasmas
Amy Wetzel and Ziv Raviv

Newcastle Disease

Further Assessment of the VG/GA Newcastle Disease Virus Strain (AVINEW®) for In Ovo Vaccination in Commercial Broilers
Francisco Perozo, Rosmar Marcano, Luis Gómez, Rafael Fernandez & Francisco Rojo

Effect of Newcastle disease virus (La Sota strain) infection on chicken respiratory macrophage
Hyesun Jang, In-Pil Mo

Characterization of Avian Paramyxoviruses isolated from Migratory Waterfowl in Chickens, Turkeys and Ducks

Avian Paramyxovirus Serotype 1 Strains of Low Virulence with Unusual Fusion Protein Cleavage Sites Isolated from Poultry Species
Patti J. Miller, Mary Lea Killian, Janice C. Pederson, Claudio L. Afonso

Analysis of transcriptional cytokine responses of chickens infected with different Newcastle disease virus isolates using paraffin embedded samples
Roselene Ecco, Corrie Brown, Leonardo Susta, Caran Cagle, Ingrid Cornax, Mary Pantin-Jackwood, Patti J. Miller, Claudio L. Afonso

Exchanging the Fusion and Hemagglutinin-neuraminidase Genes of Newcastle Disease Virus: Effects on Virulence.
Stivalis Cardenas, Leonardo Susta, Ingrid Cornax, Patti J. Miller, Corrie C. Brown, Diana Cortes-Espinosa, Lucio E. Decanini, Angel Absalon, and Claudio L. Afonso
Pathology

Comparison of Microscopic Methods for Bursa Histopathology Evaluation
Floyd D. Wilson, Alejandro Banda and Ivan Alvarado

Testicular and Epididymal Lesions in Broiler Breeders
H. John Barnes, Stephanie A. Montgomery, Sarah E. Tilley, and John Brake

An Efficient Method of Blood Collection from Poultry Presented for Necropsy.
Joel L. Cline, Billy M. Parker

Runting Stunting Syndrome

Evaluation of lymphoid tissues from broilers with runting and stunting syndrome
Holly Sellers, Susan Williams, Erich Linnemann, and Egbert Mundt

Isolation, Purification and Full Genome Sequence of a Chicken Astrovirus Isolated From Broiler Chickens With Runting and Stunting Syndrome
Sunny Cheng, Guillermo Zavala and Taylor Barbosa

Salmonella

Experience of using inactivated Salmonella vaccines for chickens, Salenvac and Salenvac T, in Europe.
Joan Schrader, Christopher A. Pugh, Colin F. Crouch, Michael J. Francis

Virus

Development of an enteric virus panel test for detection of turkey enteric viruses
S. Kariyawasam, Darrell Trampel, and T. N. Denagamage

Protection against turkey coronaviral enteritis by DNA vaccination
Tsang Long Lin, Mustafa Ababneh, Mingkun Hsieh, Ching Ching Wu

Sequential Pathogenesis of Chicken Proventricular Necrosis Virus (R11/3 Virus) in Transmissible Viral Proventriculitis-Affected Chickens
James S. Guy, Melissa West, Oscar Fletcher

A preliminary survey of hemoagglutinating virus in red-winged tinamous from Buenos Aires Province, Argentina.
Celina Buscaglia

Propagation and characterization of turkey reoviruses isolated in Germany, 2004-2008
J. Michael Day, Susanne Kenklies, and Ronald Günther
Identification and Molecular Characterization of Avian Reovirus in Commercial Broilers Using RT-PCR and Sequencing
Lanqing Li, Emily M. Handley, Michael R. Luther, Alicia Wise, Alana Fulmer, and Frederic J. Hoerr

Comparison of fluorescent antibody and RT-PCR testing for the detection of avian reovirus in clinical diagnosis
Lanqing Li, Emily M. Handley, Michael R. Luther, Alicia Wise, Alana Fulmer, and Frederic J. Hoerr

Clinical, pathological and virological investigations of multicentric lymphomas reported from pheasants flocks

Emergence of an acute chicken fibrosarcoma induced by Avian Leukosis virus in China
Zhizhong Cui, Shuhong Sun, Xin Wang, and Chuanlong Li