

Respiratory Diseases of Poultry Symposium Program

	Moderator: Sherrill Davison	
	<i>Infectious Bronchitis Virus</i>	
8:00 am	Diagnostic Tests for Infectious Bronchitis Virus – Advantages and Limitations of the Currently Used Techniques	Mark Jackwood
8:15 am	S1 Sequence Analysis; A Tool for Understanding Infectious Bronchitis Virus Outbreaks	Jack Gelb
8:30 am	Infectious Bronchitis in Pennsylvania	Sherrill Davison
8:45 am	The Current Status of the Detection and Typing of Infectious Bronchitis Virus	Fred Hoerr
9:00 am	Discussion	
	<i>Infectious Laryngotracheitis</i>	
9:15 am	Current Field Status of Infectious Laryngotracheitis	John Smith
9:30 am	Tracking Infectious Laryngotracheitis in the Field	Maricarmen Garcia
9:45 am	New Approaches in Infectious Laryngotracheitis Vaccine Development	Calvin Keeler
10:00 am	Discussion	
10:15 am	Break	
	<i>Mycoplasma Gallisepticum</i>	
10:45 am	<i>Mycoplasma gallisepticum</i> in North Carolina: 1999-2000	David Ley
11:00 am	Some Perspective on <i>Mycoplasma</i> Diagnosis and Control	Stanley Kleven
11:30 am	Discussion	
11:45 am	LUNCH	
	Moderator: Fred Hoerr	
	<i>Avian Influenza</i>	
1:30 pm	National and International Avian Influenza Outbreaks and Strategies for Control	David Swayne
	<i>Newcastle Disease</i>	
2:00 pm	Newcastle Disease Virus Pathotyping: The Current Emphasis on the ICPI	Jack King
2:15 pm	Molecular Evolution of Newcastle Disease Virus and the Application of Molecular Diagnostics	Bruce Seal
	<i>Pneumoviral Infection</i>	
2:30 pm	Epidemiology of Avian Pneumovirus and Host Range	K.V. Nagaraja
2:45 pm	Pathogenesis and Detection of Avian Pneumovirus Infection	Daniel Shaw
3:00 pm	DISCUSSION	
3:30 pm	Adjourn	

2001 AAAP/AVMA SCIENTIFIC PROGRAM
Boston, Massachusetts
Convention Center

	Monday, July 16, 2001 Session A Room 311	Monday, July 16, 2001 Session B Room 312
	Moderator: Carol Cardona	Moderator: Chuck Hofacre
8:00	Molecular Characterization of Oncogenic Avian Leukosis Virus Subgroup J Zavala, Guillermo, Mark Jackwood, & Deborah Hilt	Rapid and specific detection of Campylobacter sp., Salmonella sp. and E. coli O157 with multiplex PCR-ELISA Hong, Yang, Margie Lee, & John Maurer
8:15	Classical and Molecular Analysis of Nested RT-PCR ALV-J Positive Plasma Samples undetected by Virus Isolation Coupled with Antigen Capture ELISA El-Attrache, John, Pedro Villegas, & Maricarmen Garcia	Frequency and location of Salmonella enteritidis contamination in eggs associated with various routes of experimental infection of laying hens Gast, Richard, Jean Guard-Petter, & Peter Holt
8:30	The Effect of immunosuppression caused by cyclophosphamide treatment of broiler chickens in Avian leukosis virus subgroup J (ALV-J) infection Yongbaek, Kim, Tom Brown, Mary Pantin-Vera, & Saad Gharaibeh	Use of new lateral flow panel for detecting Group D Salmonella, to rapidly determine Salmonella enteritidis (SE) presence in egg contents Holt, Peter, Kun-Ho Seo, Richard Gast, & Henry Stone
8:45	Natural history of Avian Leukosis Virus-Subgroup J in a closed flock of broiler breeder chickens over three years Brown, Thomas, Nancy Stedman, Mary Pantin, Saad Gharaibeh, Kim Yongbaek, & Justin Verner	Salmonellas from poultry products, environment and from the diagnostic samples Dhillon, A. Singh, P. Roy, L. H. Lauerman, D.M. Schaberg, D. Bandli, & S. Johnson
9:00	Evidence for myeloblastosis associated virus type-1 in a commercial White Leghorn stock Spencer, J. Lloyd, Maria Chen, Susan Nadin-Davis, & Bernhard Benkel	Broad serotype screening test for serologic diagnosis of Salmonella in poultry Dirk Mekkes, Andrea Ballagi, Harold van den Heijden, & Valerie Leathers
9:15	Effects of maternal antibodies against ALV-J on severity of ALV-J infection in broiler chickens exposed to hatch mates shedding virus Gharaibeh, Saad, Tom Brown, Mary Pantin, & Kim Yongbaek	Genetic characterization of antibiotic-resistant Salmonella from commercial poultry operations Liljebjelke, Karen, Tongrei Liu, Charles Hofacre, & John Maurer
9:30	Evaluation of experimental vaccines for subgroup J avian leukosis virus Fadly, Aly, Lucy Lee, & Henry Hunt	Interaction of Salmonella typhimurium and Infectious Bursal Disease virus (IBDV) in broiler chickens Bautista, Daniel, Elankumaran Subbiah, Robert Heckert, Gretchen Oshop, Lenita Moura & Jane Wilson
	Break 9:45 AM – 10:15AM	Break 9:45 AM – 10:15AM
	Moderator: Richard Witter	Moderator: John Glisson
10:15	Investigation of the Role of non-MHC alloantigen systems on Marek's disease pathogenicity in broilers Wakenell, Patricia, W. Elwood Briles, Maung San Myint, Thomas Farver, & Donald Link	Different control approaches of a highly virulent Salmonella enteritidis infection in chicken Barbour, Elie, Gida Banat, Mohammed Farran, Obeid Faroon, & Faris Jirjis
10:30	Characterization of Marek's Disease Virus gene encoding an IL8-like chemokine Cui, Xiaoping, Lucy Lee, & Sanjay Reddy	Construction and evaluation of a live attenuated vaccine to protect chickens against Group C Salmonella Roland, Kenneth, Steve Gort, Steve Tinge, Beth Warner, & Mark Campbell
10:45	Recombinant technology to mutate Marek's disease virus genes, pp38 is not essential for oncogenesis Reddy, Sanjay, Blanca Lupiani, Robert Silva, Lucy Lee, & Richard Witter	Comparison of fecal shedding of avian bacterial pathogens and parasites from free-living passerines and waterfowl Morishita, Teresa, Dawn Fallacara, Clifton Monahan, Elizabeth Ley, Pyone Aye, & Brian Harr
11:00	Virulence of Marek's disease virus: role of the 132 bp repeats Silva, Robert, Blanca Lupiani, & Sanjay Reddy	Potential human health consequences of use of antimicrobial agents in chickens Kathryn Gay, Shannon Rossiter, & Jennifer Wright
11:15	Insertional mutagenesis of a putative immunogenic epitope of pp38 of Rispens Strain of Marek's Disease virus into Md5 Lee, Lucy, Zhizhong Cui, Sanjay Reddy	Effects of products from con. A stimulated peripheral blood lymphocytes on different bacteria Don Reynolds, & Ali, Akbar,

	Monday, July 16, 2001 <i>cont'd.</i> Session A	Monday, July 16, 2001 <i>cont'd.</i> Session B
11:30	Distinct pathogenesis of transient paralysis and persistent neurological disease revealed by differential attenuation of Marek's disease virus Gimeno, Isabel, Richard Witter, Henry Hunt, Sanjay Reddy, & Ulrich Neumann	Open
	AAAP Awards Luncheon 11:45 AM – 2:00 PM	AAAP Awards Luncheon 11:45 AM – 2:00 PM
	Moderator: Thomas Brown	Moderator: Stanley Kleven
2:00	Open	Open
2:15	Improved efficacy of partially attenuated vaccines for Marek's disease Witter, Richard	Association between hepatitis E-like virus and Hepatitis-Spenomegally Syndrome in Chickens Shivaprasad, H.L., P. R. Woolcock, D.H. Read, J. Jeffrey, & X.J. Meng
2:30	Epidemiology of an outbreak of Reticuloendotheliosis in breeder and market age turkeys Crespo, Rocio, H.L. Shivaprasad, Cheryl Hall, & Aly Fadly	The epidemiology of <i>Mycoplasma gallisepticum</i> in North Carolina. An update. Martinez, Algis, Jean-Pierre Vaillanourt, David Ley, & Charlotte Smith
2:45	Pathology of Reticuloendotheliosis in breeder and market age turkeys Shivaprasad, H.L., Rocio Crespo, Cheryl Hall, & Aly Fadly	Observations on the use of the random amplified polymorphic DNA analysis test on <i>Mycoplasma gallisepticum</i> cases in Colorado Wooming, Brian, & David Ley
	Break 3:00 PM – 3:30PM	Break 3:00 PM – 3:30PM
	Moderator: David Swayne	Moderator: David Ley
3:30	Pathobiology of a Hong-Kong origin H5N1 avian influenza virus in pigeons, geese, and emus Perkins, Laura & David Swayne	Pathogenicity of <i>Mycoplasma gallisepticum</i> field isolates for chickens and turkeys Sanei, Babak, David Ley, & H. John Barnes
3:45	The H5N2 Avian Influenza makes its debut in Central America Senne, Dennis, David Suarez, Janice Pedersen, & Brundaban Panigrahy	Detection of <i>Mycoplasma synoviae</i> in chicken tissues by in situ DNA hybridization with catalyzed signal amplification Lockaby, Susan, Frederic Hoerr, & Lanqing Li
4:00	Difficulties associated with the isolation and identification of avian influenza virus Woolcock, Peter, Michael McFarland, & Steven Lai	Comparison of the pathogenicity of recent isolates of <i>Mycoplasma synoviae</i> in turkeys Kleven, Stanley, Min Su Kang, Victoria Leiting, & W.D. Hall
4:15	Isolations of Non H5 or H7 Avian Influenza subtypes from backyard Pennsylvania poultry flocks Henzler, David, Bruce Schmucker, & Philip DeBok	Clearance of <i>Mycoplasma synoviae</i> from the upper respiratory tract by local treatment with antibody and tiamulin Ramirez, Antonio, Eliana Icochea, Norma Noe, & Sharon Levishon
4:30	Impact of H9N1 avian influenza infection in a layer farm Lucio-Martinez, Benjamin	Response to treatment of mycoplasmosis in broiler breeders based on evaluation by pipped embryo analysis Payne, Albert, William Serna, & Tony Unandar
4:45	Mortality Reduction in Leghorn Hens under a Modified Electromagnetic Field Keirs, Robert	Effect of Enrofloxacin and Tylosin on protection against MG challenge in birds vaccinated with TS-11 Contreras, Manuel, Rafael Fernandez, & Enrique Montiel
5:00	Adjourn	Adjourn

	Tuesday, July 17, 2001 Session A Room 311	Tuesday, July 17, 2001 Session B Room 312
	Moderator: Pedro Villegas	Moderator: Alex Bermudez
8:00	Reliable virulence measures for the Newcastle disease virus (NDV) Panigrahy, Brundaban, Dennis Senne, & Janice Pedersen	Evaluation of Avian <i>E. coli</i> Iss Monoclonal Antibodies Foley, Steven, Shelley Horne, Michael Robinson, & Lisa Nolan
8:15	Virulence of six heterogenous-origin Newcastle disease virus isolates for domestic chickens Kommers, Glaucia, Daniel King, Bruce Seal, & Corrie Brown	Involvement of Iss in Avian <i>Escherichia coli</i> virulence and complement resistance Horne, Shelley, Cathy Giddings, Richard Wooley, & Lisa Nolan
8:30	Passive immunization protects birds following challenge with virulent NDV Reynolds, Donald, & Sevinc Akinc	The role of arsH in Avian <i>Escherichia coli</i> Gibbs, Penelope, Richard Wooley, & John Maurer
8:45	Newcastle disease vaccine failure in commercial broilers Senne, Dennis, Bruce Seal, Daniel King, Eduardo Rivera, & Cesar Villarreal	Apralan soluble powder for the control of colibacillosis-related mortality in growing chickens Rings, Bret, Gregory Moore, & Alan Zimmerman
	Break 9:00 AM – 9:30 AM	Break 9:00 AM – 9:30 AM
	Moderator: Jagdev Sharma	Moderator: Dick Slemmons
9:30	Rapid detection and strain differentiation of infectious bursal disease virus in formalin-fixed, paraffin-embedded tissue Pantin, Mary, Thomas Brown, Mark Jackwood, & Heather Ainsworth	Characterization of recent <i>Pasteurella multocida</i> isolates from the West and Midwest Angrick, Elisabeth, Pyone Aye, & Teresa Morishita
9:45	Detection of single and multiple nucleotide polymorphisms in infectious bursal disease viruses using real-time RT/PCR Jackwood, Daral, & Susan Sommer	Evaluation of the effect of heating on oil emulsion <i>Pasteurella multocida</i> bacterin on reducing tissue reaction without affecting immunity Burns, Karen, Jaime Ruiz, & John Glisson
10:00	Pathogenicity of recent IBDV isolates inoculated in commercial broilers using in situ hybridization Banda, Alejandro, Pedro Villegas, John El-Attrache, & Corrie Brown	Lesions associated with an accidental head injection with a live fowl cholera vaccine Gilbert, Robinette
10:15	Involvement of cytokines in the pathogenesis of infectious bursal disease virus (IBDV) in chickens Rautenschlein, Silke, Hung-Yueh Yeh, Moses Njenga, & Jagdev Sharma	Extraction, preparation, and efficacy of <i>Pasteurella multocida</i> capsule and outer membrane proteins in Pekin ducks Eltayeb, Amna, Jessie Price, & Mike Collins
	Business Meeting 10:30 AM – 12:00 Noon Lunch 12:00 Noon – 1:00 PM	Business Meeting 10:30 AM – 12:00 Noon Lunch 12:00 Noon – 1:00 PM
	Moderator: Mo Saif	Moderator: John Barnes
1:00	Open	Open
1:15	Cytokines modulate IBDV vaccination Yeh, Hung-Yueh, Silke Rautenschlein, & Jagdev Sharma	Factors affecting pathogenesis of avian pneumovirus in turkeys Jirjis, Faris, Sally Noll, David Halvorson, Kakambi Nagajaja, Alberto Back, & Daniel Shaw
1:30	The role of T cells in protection by inactivated IBDV vaccine Sharma, Jagdev, Silke Rautenschlein, & Hung-Yueh Yeh	Neonatal avian pneumovirus infection in commercial turkeys Halvorson, David, H.J. Shin, F.F. Jirjis, M.C. Kumar, M.K. Njenga, D.P. Shaw, S.L. Noll, & K.V. Nagaraja
1:45	Infectious Bursal Disease Virus Proventriculitis Kelly, Tami, Joe Giambrone, & Kalen Cookson	Immune response of turkeys following intranasal vaccination with BPL-inactivated avian pneumovirus and live-virus challenge Kapczynski, Darrell, & Cassandra Smith
2:00	Comparison of monoclonals-based AC-Elisa, RT/PCR-RFLP and histology for the diagnosis of IBDV. Lamichane, C.M.	Effect of Fermentable Diets on Enterocyte Maturation and Turkey Coronavirus Infection Pierson, William, Chanin Tirawattanawanich, & Calvert Larsen
2:15	Pathogenesis of chicken infectious anemia virus: studies on latency Miller, Myrna, & Karel Schat	Effects of turkey coronavirus infection on turkey breeder hen performance Rives, David, & James Guy

	Tuesday, July 17, 2001 <i>cont'd.</i> Session A	Tuesday, July 17, 2001 <i>cont'd.</i> Session B
	Break 2:30 PM – 3:00 PM	Break 2:30 PM – 3:00 PM
	Moderator: John Smith	Moderator: David Rives
3:00	California 99 and Nebraska 95 strains of infectious bronchitis virus: Molecular and serological characterization Jackwood, Mark, & Deborah Hilt	Open
3:15	Virological and serological identification of IBV strains known as DE-072 variants Villegas, Pedro, Miguel Ruano, John El-Attrache, & Naola Ferguson	Production effects of exposure to Coban to turkey breeder hens in production that had previous exposure to Coban during rearing as breeder replacements Trites, James, & Ronald Lippert
3:30	The Pathogenesis and Genetic Characteristics of Nephropathogenic Infectious Bronchitis viruses isolated in the United States Lee, Chang-Won, Deborah Hilt, & Mark Jackwood	Pseudoaspergillosis in young turkey poults caused by <i>Staphylococcus aureus</i> Barton, James
3:45	Protection afforded by commercial vaccines against the Nebraska 95 IBV field isolate Alvarado, Ivan, Pedro Villegas, John El-Attrache, & John Glisson	Efficacy of Fenbendazole against round worms (<i>A. dissinilis</i>) in commercial turkeys Karunakaran, Daniel
4:00	Prevalence of Infectious Bronchitis virus during the downtime period in broiler houses Ruiz, Jaime, John Glisson, & Karen Burns	Reduced 2-week mortality in turkey poults following administration of tylosin soluble Evans, Robert, & Daniel Karanakaran
4:15	Isolation and characterization of multiple strains of Infectious Bronchitis Virus (IBV) from a commercial layer farm Lu, Huaguang, Q. Yang, T. Ward, P. Dunn, & D. Weinstock	Turkey Enteritis – Gross and Histologic Evaluations from the field Cummings, Timothy
4:30	Management of an endemic Infectious Bronchitis 072 variant in a commercial broiler complex Payne, Albert	Characterization of a reovirus isolated from PEMS causing liver lesions Schat, Karel, Priscilla O'Connell, Cherilyn Heggen-Peay, & Muquarrab Quereshi
4:45	Field observations from the use of a vaccine reaction score system for IBV on broiler performance Venne, Daniel	The pathogenesis of turkey astrovirus infection in poults Behling-Kelly, Erica, Stacey Schultz-Cherry, Matt Koci, Laura Kelley, & Corrie Brown
5:00	Adjourn	Adjourn
	Wednesday, July 18, 2001 Session A Room 311	Wednesday, July 18, 2001 Session B Room 312
	Moderator: Willie Reed	Moderator: Buzz Klopp
8:00	A recombinant fowl pox virus containing IBV-S1 gene and its potential for a vaccine Khan, Mazhar, Xiuqing Wang, William Schnitzlein, & Deoki Tripathy	The concurrence of <i>Staphylococcus aureus</i> with broiler ascites Keirs, Robert, Chinling Wang, & Donnie Zumwalt
8:15	Homologous fowlpox virus derived promoters for the development of recombinant vaccines Srinivasan, Viswanathan, William Schnitzlein, & Deoki Tripathy	Four-year summary of the disease incidence of broiler breeders in north Alabama VanSambeck, Francene, Frederic Hoerr, Susan Lockaby, & Tami Kelley
8:30	Efficacy and safety of a recombinant fowl pox virus containing Laryngotracheitis genes Moore, Kristi, Jennifer Davis, Yoshinari Tsuzaki, David Hout, Motoyuki Esaki, Takahi Okuda, & Joan Leonard	Production loss and mortality in broiler breeders from suspected salinomycin toxicity Roney, Charles S., & Jeffery Courtney
8:45	Analysis of <i>Mycoplasma gallisepticum</i> genes expressed by a fowl pox virus vector Tsuzaki, Yoshinari, Jennifer Davis, David Hout, Shuji Saitoh, Motoyuki Esaki, Takashi Okuda, Ayumi Fujisawa, & Joan Leonard	Antibiotic sensitivity profiles of <i>E. coli</i> isolates from commercial broiler chickens submitted to the Salisbury Animal Health Laboratory from 1998-2000 Tablante, Nathaniel, & Fidelis Hegngi
9:00	Diseases and Lesions in the integument Julian, Richard	Rofenaid disk-diffusion assay results Clark, Steven
9:15	Role of management in control of fowl pox in laying chickens Spasojevic, Radivoje	Pathologic characterization of four Michigan Infectious Laryngotracheitis virus isolates Fulton, Richard, Roger Maes, & Cunqin Han

	Wednesday, July 18, 2001 <i>cont'd.</i> Session A	Wednesday, July 18, 2001 <i>cont'd.</i> Session B
	Break 9:30 AM – 9:45 AM	Break 9:30 AM – 9:45 AM
	Moderator: Mick Fulton	Moderator: Ken Opengart
9:45	Genetic and antigenic characterization of a poxvirus from ostrich Tripathy, Deoki, Tae-Joong Kim, H. L. Shivaprasad & Peter Woolcock	Haemoproteus lophortyx infection in bobwhite quail Cardona, Carol, Bill Johnson, & Arthur Ihejirika
10:00	Infectious coryza outbreak in a large egg layer complex. Opitz, H.M.	New, reliable, non-radioactive colorimetric assay to monitor lymphocyte proliferation during <i>Eimeria tenella</i> infection Lillehoj, Hyun, Tadashi Miyamoto, & Wongi Min
10:15	A caveat in FPV vaccines and their recombinants, a need for better vaccine Singh, Pratik, William Schnitzlein, & Deoki Tripathy	Coccidiosis control and immunity development using Clinacox (diclazuril) or Salinomycin in extended withdrawal programs Mathis, Greg, & Marcelo Lang
10:30	Immunogenicity of recombinant plasmid DNA expressing the VP2 capsid protein gene of infectious bursal disease virus and chicken interleukin-2 Hulse, Diane, & Carlos Romero	Productive performance of broilers protected with a nonattenuated <i>Eimeria</i> vaccine Icochea, Eliana, Miguel Adriano, Antonio Ramirez, & Pablo Reyna
10:45	DNA vaccination with plasmids containing various fragments of large segment genome of infectious bursal disease virus Wu, Ching Ching, Hua Chen Chang, & Tsang Long Lin	The performance of Maxiban® (Narasin and Nicarbazin) and Nicarbazin in broiler starter rations with and without Bacitracin Methylene Disalicylate Rings, Bret, & Robert Cochrane
11:00	Determination of the most effective route for <i>in ovo</i> delivery of DNA vaccines Moura, Lenita, Robert Heckert, Subbiah Elankumaran, & Gretchen Oshop	An evaluation of the association between gut pH, feed passage, coccidial lesions and <i>Clostridium perfringens</i> in broiler chickens submitted to the Salisbury Animal Diagnostic Laboratory Hegngi, Fidelis, Nathaniel Tablante, Pierre Brunet, & Pete Warnner
11:15	<i>In ovo</i> Nucleic Acid Immunization of the chicken against Infectious bursal disease and Newcastle disease Oshop, Gretchen, Robert Heckert, Subbiah Elankumaran, & Lenita Maura	The effects of chemical litter treatment on <i>Clostridia perfringens</i> induced necrotic enteritis in broiler chickens; a pilot study verifying a laboratory model Martin, Michael, Patricia Wakenell, Randolph Chick, & Chris O'Brien
11:30	Adjourn	Adjourn

2001 AAAP/AVMA POSTER PROGRAM
Convention Center Room 310

1. **Relative importance of biosecurity measures: A Delphi Study**
Vaillancourt, Jean-Pierre, & Algis Martinez
2. **Biological and molecular characterization of a novel quail herpes virus**
Link, Donald, Karel Schat, & Patricia Wakenell
3. **The Effects of *Riemerella (Pasteurella) anatipestifer* on Pekin Ducks**
Sarver, Craig, Teresa Morishita, Y.M. Saif, & Bedros Nersessian
4. **Experimental inoculation of pigeons (*Columba livia*) with *Mycobacterium bovis***
Zwick, Laura, Scott Fitzgerald, & Willie Reed
5. **Avulsion of the Common Retinaculum in Meat Turkeys**
Crespo, Rocio, Cheryl Hall, & Yan Ghazikhanian
6. **Antigenic relationship of turkey coronavirus isolates in the U.S.**
Lin, Tsang Long, Chien Chang Loa, Ching Ching Wu, Thomas Bryan, Tom Hooper, & Donna Schrader
7. **Development and validation of a competitive enzyme-linked immunosorbent assay for detection of turkey coronavirus-specific antibodies**
Guy, James, Jamie Breslin, & Lynda Smith
8. **Analysis of the polyprotein catalytic site on OH-infectious bursal disease virus (IBDV) strain protein VP4 by site-directed mutagenesis**
Rodriguez, Juan, & Frederick Kibenge
9. **Trafficking in the chicken of recombinant plasmid DNA expressing the VP2 capsid protein gene of infectious bursal disease virus**
Hulse, Diane, & Carlos Romero

10. **The sequence evidence of swine influenza viruses infecting chickens and turkeys**
Suarez, David
11. **Genetic diversity of *Campylobacter jejuni* from broiler chickens at processing**
Jeffrey, Joan, Karen Tonooka, Joan Lazano, & Allison Hunter
12. **Isolation and characterization of fluoroquinolone-resistant *Campylobacter* sp. from poultry samples**
Ghori, Hashim, & Mohammed Nawaz
13. **Effects of maternal antibodies on ALV-J infection in broiler chickens: parenteral injection of virus**
Gharaibeh, Saad, & Tom Brown, Mary Pantin, and Kim Yongbaek.
14. **Efficacy of water administration of sodium acid sulfate in reducing crop contamination during feed withdrawal**
Byrd, J. Allen, & Trisha Marsh Johnson
15. ***Salmonella enteritidis* cross contamination of table eggs**
Boulianne, Martine, & Serge Messier
16. **Initial screen for presence of *Salmonella* in poultry environments with nested-PCR**
Liu, Tongrui, Elizabeth Bartlett, Charles Hoface, Susan Sanchez, & John Maurer
17. **Genetic variability of reticuloendotheliosis provirus in the genome of fowlpox virus**
Schnitzlein, William, Pratik Singh, & Deoki Tripathy
18. **Molecular characterization of Reticuloendotheliosis Virus (REV) insertions in the genome of field and vaccine strains of fowl pox virus (FPV)**
Narang, Neelam, Maricarmen Garcia, William Reed, & Aly Fadley
19. **Condor Poxvirus with biological differences from Fowlpox Virus**
Kim, Tae-Joong, & Deoki Tripathy
20. **Characterization of a possible avian macrophage chemoattractant from an avian macrophage EST library**
Bliss, Travis, Marlene Emara, & Calvin Keeler
21. **Effect of toe trimming, probiotics and litter acidification on the incidence of cellulitis in broiler chickens**
Tessier, Michelle, Philippe Labelle, Robert Gauthier, & Martine Boulianne
22. **Correlation of phenotypic and genotypic characteristics and embryo lethality in identifying virulent and commensal avian *Escherichia coli***
Wooley, Richard, & Penelope Gibbs
23. **C3b deposition on avian *Escherichia coli***
Nolan, Lisa, Catherine Giddings, Shelley Horne, & Richard Wooley
24. **Plasmid location of *iss* in an Avian *Escherichia coli* isolate**
Johnson, Timothy, Catherine Giddings, Shelley Horne, & Lisa Nolan
25. **Screening a genomic library of a virulent avian *Escherichia coli* isolate for *iss***
Lynne, Aaron, Shelley Horne, Catherine Giddings, & Lisa Nolan
26. **Prevalence of Enteropathogenic *Escherichia coli* in naturally-occurring cases of poult enteritis-mortality syndrome**
Pakpinyo, Somsak, H. John Barnes, David Ley, & James Guy
27. **Development of methods for detection of envelope glycoprotein of subgroup J Avian Leukosis Virus**
Li, Maoxiang, Lucy Lee, & Aly Fadly
28. **Using ultrasound to predict lean tissue mass in broiler breeder hens**
Dixson, Sallee, Robert Teeter, & Kenneth Powell
29. **Feline aminopeptidase N as a receptor for Infectious Bronchitis virus**
Wang, Chinling, Betty Miguel, & Gregory Pharr
30. **Glycosylation analysis of the IBV spike glycoprotein**
Wade, Emma, Mark Jackwood, & Deborah Hilt
31. **Synthesis and analysis of hammerhead ribozymes targeted to Infectious Bronchitis Virus subgenomic mRNA coding for the nucleocapsid protein**
Callison, Scott, Mark Jackwood, & Deborah Hilt
32. **Use of a live coccidial oocyst vaccine to change a salinomycin-resistant field *Eimeria maxima* population**
Newman, Linnea, Harry Danforth, Steve Roney, & John McCarty
33. **Immunogenetic Assessment of Staphylococcal Tenosynovitis and Osteomyelitis in broiler breeder stock**
Bessinger, Kellye, Frederic Hoerr, Sandra Ewald, & Vicky Van Santen
34. ***Staphylococcus aureus* granulomatous pneumonia in 6-day-old turkey poults**
Bermudez, Alex, & Magalie Boucher
35. **Correlation of tracheal antigenic distribution and levels of specific humoral antibodies in pneumovirus infected broiler breeders and their offsprings**
Barbour, Elie, Faris Jirjis, & Shady Hamadeh
36. **Reproductive tract tumors in mature laying hens**
Barnes, H. John, Gustavo Rodriguez, & Donna Carver
37. **Ontogeny of cellular and humoral immune response parameters ducks**
Wang, Y., PR China, & U. Neumann
38. **Investigations on immune cell populations of the head-associated lymphoid tissues: immunohistochemical aspects, cell mediated and humoral immune response in unvaccinated and vaccinated broilers**
Dumrongsoontornchai, P., U. Neumann
39. **Drumstick lesions of unknown etiology at a poultry slaughtering /processing facility**
Davis, Meredith, Benjamas Promsopone, & Teresa Morishita