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<td>8:00 AM</td>
<td>Opening - AVMA, AAAP, WVPA</td>
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<td>8:40 AM</td>
<td>Keynote Speaker #1 - Dick Jones&lt;br&gt;Viral Respiratory Diseases of Poultry (IBV, LT, Pneumo)</td>
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<td>9:20 AM</td>
<td>Keynote Speaker #2 - John Glisson&lt;br&gt;Mycoplasmal and Bacterial Diseases of Poultry</td>
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<td>10:00 AM</td>
<td>A New And Emerging Disease Of Chickens Caused By Pasteurella Haemolytica-Like Organisms: Disease And Control Strategy&lt;br&gt;Gonzalez, Carlos, Maria Vazquez, Raul Campogarrido, Rodriguez Humbero and Vaithianathan Sivanandan</td>
<td>Trends In Live Avian Pneumovirus Vaccination In The UK&lt;br&gt;Naylor, Clive, Dick Jones and Dave Cavanagh</td>
<td>Novel Characteristics Of Recent Isolated Avian Reoviruses In The USA&lt;br&gt;Hein, Ruud, Gwen Slacum, Phyllis Lynch and Saskia Van de Zande</td>
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<td>10:30 AM</td>
<td>Moderator: Sara Steinlage</td>
<td>Moderator: Calvin Keeler</td>
<td>Moderator: Karel Schat</td>
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<td>10:45 AM</td>
<td>The Effects Of Differences In Virulence Of Different Serovars Of Haemophilus Paragallinarum On Vaccine Efficacy&lt;br&gt;Bragg, Robert</td>
<td>Field Effects And Lesions Of Avian Pneumovirus By Itself And/Or In The Presence Of Other Disease (NDV, ORT, BA, HE) And Environmental (Air Quality, Temperature Variations, Ammonia, Dust, Relative Humidity) Factors In Turkeys In The Upper Midwest Of The USA&lt;br&gt;Medina, Hugo</td>
<td>Central Nervous System Disorders Caused By A New Avian Reovirus&lt;br&gt;Van de Zande, Saskia, Sander van Bommel, Eva Kuhn and Ruud Hein</td>
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<td>11:00 AM</td>
<td>Serologic Response And Resistance Of Hens Vaccinated With Different Serotypes Of Haemophilus Paragallinarum&lt;br&gt;Ortiz, Ariel, Juan Carlos Del Rio and Alejandro Garcia</td>
<td>Protection Of Chickens Against Infections Caused By Avian Pneumovirus&lt;br&gt;Cook, Jane, Michael Huggins and Sarah Orbell</td>
<td>Development Of A Safe And Efficacious In Ovo Administered Antibody Complex Vaccine Against Avian Reoviruses&lt;br&gt;Giambrone, Joseph and Zhuyan Guo</td>
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<td>11:15 AM</td>
<td>Chicken Embryo Lethality Assay For Determining The Pathogenicity Of Ornithobacterium Rhinotracheale Isolates&lt;br&gt;Hafez, Hafez and Christina Popp</td>
<td>Immunization Of Turkeys With A DNA Vaccine Expressing Either The F Or N Gene Of Avian Metapneumovirus&lt;br&gt;Kapczynski, Darrell and Holly Sellers</td>
<td>Improved Diagnostics For Poulit Enteritis&lt;br&gt;Miles, Andrea, H. John Barnes, Lorrie Brundige, James Guy, Nancy Reimers, David Rives and Jean-Pierre Vaillancourt</td>
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<td>11:30 AM</td>
<td>Minimum Inhibitory Concentration (MIC) Assay For Determining Antibiotic Sensitivity Of Ornithobacterium Rhinotracheale Isolates In Vitro&lt;br&gt;Popp, Christina and Hafez Hafez</td>
<td>Efforts To Eradicate Avian Pneumovirus&lt;br&gt;Halvorson, David, Carl Heeder, Dale Lauer, Kakambi Nagaraja, Moses Njenga, Don Roepke, Ron Lippert and Brian McComb</td>
<td>Increased Intestinal Weight And Length Is A Non-Specific Indicator Of Enteritis In Turkey Poults&lt;br&gt;Reimers, Nancy, H. John Barnes, Andrea Miles and Clark Gray</td>
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<td>1:15 PM</td>
<td>Safety Of The Mycoplasma Gallisepticum Vaccine Strain 6/85 After Backpassage In Turkeys&lt;br&gt;Kleven, Stanley, Manal Zaki, Naola Ferguson, Victoria Leiting and Ruth Wooten</td>
<td>Replication Interference Associated With Infectious Bronchitis Virus And Newcastle Disease Virus Co-Infections&lt;br&gt;Gelb, Jr., Jack, Liam Campbell and Brian Ladman</td>
<td>Chicken Anaemia Virus: Subclinical Infection In Broilers&lt;br&gt;Zanella, Antonio, Raffaella Ceruti, Luigi Gavazzi and Alberto Votorio</td>
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<td>1:30 PM</td>
<td>Enterococcus Sp. Related Arthritis In Broilers&lt;br&gt;Salem, Mariano, John Rosenberger, Sandra Cloud, Conrad Pope, Brenda Sample and Kathy Phillips</td>
<td>Colibacillosis Inducing Ability Of Massachusetts Type IB Vaccine – And Field Virus In Commercial Broilers&lt;br&gt;Matthijs, Mieke, Do Van Eck, Wil Landman and Arjan Stegeman</td>
<td>Detection And Environmental Monitoring Of DNA Viruses Using The Feathers Of Commercial Chickens&lt;br&gt;Davidsson, Irit, M. Kedem, H. Borochovitz, R. Borenshtain, Ester Hamzani and B. Smith</td>
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<td>Characterization And Identification Of Enterococal Strains Isolated From Disease Outbreaks In Broiler Flocks Characterized By Increased Mortality Due To Septicaemia And Endocarditis And/OR Altered Production Parameters&lt;br&gt;Chadfield, Mark, Jens Christensen, Henrik Christensen and Magne Bisgaard</td>
<td>Pathogenicity Of Intestinal Passaged Infectious Bronchitis Virus (IBV)&lt;br&gt;Alvarado, Ivan, Pedro Villegas and Guillermo Zavala</td>
<td>Transcription Of Latent Chicken Infectious Anemia Virus In Chicken Embryos&lt;br&gt;Schat, Karel, Karla Stucker, Myrna Miller and Priscilla O’Conell</td>
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<td>2:00 PM</td>
<td>Study Of Safety And Efficacy Of Mycoplasma Gallisepticum Vaccine TS-11&lt;br&gt;Stipkovits László, Judit Bíró, János Povazsán, László Krösi, János Mészáros and Róbert Glávits</td>
<td>Generating Novel IBV Spike Glycoprotein Genes By A New Technique Termed RNA Shuffling&lt;br&gt;Callison, Scott, Mark Jackwood and Deborah Hilt</td>
<td>Reed Rumsey Award&lt;br&gt;Chicken Infectious Anemia Virus Promoter Response In Cultured Cells Of The Female Reproductive Tract&lt;br&gt;Miller, Myrna and Karel Schat</td>
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<td>2:15 PM</td>
<td>Isolation And Characterization Of A 6/85-Like Mycoplasma Gallisepticum From Commercial Laying Hens&lt;br&gt;Steinliage, Sara, Naola Ferguson, Jean Sander, Maricarmen Garcia, S. Subramanian, Victoria Leiting and Stanley Kleven</td>
<td>Infectious Bronchitis Virus (IBV) Protein Functions Studied Using Recombinant IBV’s&lt;br&gt;Cavanagh, Dave, Rosa Casais, Brian Dove, Teri Hodgson, Sharon Evans and Paul Britton</td>
<td>Characterization And Comparison Of Chicken Anemia Virus (CAV) Types From Different Ages In Commercial Broilers&lt;br&gt;Sommer, Franz, Carol Cardona and Bruce Charlton</td>
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<td>Moderator: Stanley Kleven</td>
<td>Moderator: John Mauer</td>
<td>Moderator: Tami Kelly</td>
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<td>3:00 PM</td>
<td>Keynote Speaker #3 – John Smith&lt;br&gt;New Concepts of Management and Disease Control in Poultry</td>
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<td>3:45 PM</td>
<td>Further Studies Of Mycoplasma Gallisepticum Isolate K5054 As A Vaccine In Poultry&lt;br&gt;Ferguson, Naola, Victoria Leiting and Stanley Kleven</td>
<td>Factors Affecting Epidemiology Of Antibiotic-Resistant Campylobacter Jejuni And Campylobacter Coli&lt;br&gt;Idris, Umelaalim, Jingrang Lu, Margie Lee, Susan Sanchez, Charles Hofacre and John Maurer</td>
<td>What Is Your Diagnosis For Hatch Loss?&lt;br&gt;Stayer, Philip</td>
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<td>4:00 PM</td>
<td>Aerosol-Induced Mycoplasma Synoviae Arthritis: The Synergistic Effect Of Infectious Bronchitis Virus&lt;br&gt;Landman, Wil and Anneke Feberwee</td>
<td>Determination Of The Prevalence Of Campylobacter Spp. On Turkey And Broiler Production Farms In North Carolina&lt;br&gt;McCann, Regan, Jesse Grimes, Sophia Kathariou, Andrea Sinclair, Jean-Pierre Vaillancourt and Michael Vineland</td>
<td>Evaluating Chlorine Dioxide (ClO2) As A Drinking Water Sanitizer In Young Commercial Turkeys&lt;br&gt;Brundige, Lorrie, Andrea Miles, David Rives and H. John Barnes</td>
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<td>Effect Of Mycoplasma Synoviae Infection On Serologic Response To Newcastle La Sota Vaccine&lt;br&gt;Nascimento, Elmiro, Rita Silva, Marcela Platenik, Virginia Almeida, M. Lucia Barreto and Antonio Correa</td>
<td>Reduction In Campylobacter Spp. Levels In Commercially Processed Carcasses&lt;br&gt;Stern, Norman and Michael Robach</td>
<td>Effect Of Treated Waste Water On Performance And Health Status Of Broilers&lt;br&gt;Hassanain, Mohey</td>
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<td>4:30 PM</td>
<td>The Use Of MGC2-PCR-RFLP For Rapid Differentiation Between Mycoplasma Gallisepticum Field And Vaccine Strains&lt;br&gt;Levisohn, Sharon, Inna Lyshansky, Stanley Kleven and Maricarmen Garcia</td>
<td>Campylobacter Jejuni Prevalence In Commercial And Organic Poultry Operations&lt;br&gt;Luangtongkum, Taradon, Teresa Morishita and Qijing Zhang</td>
<td>A Novel Approach To Foot Dipping&lt;br&gt;Owen, Robert and John Lawlor</td>
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<td>4:45 PM</td>
<td>In Vivo Characterization Of A Glycoprotein C Mutant Of Infectious Laryngotracheitis Virus&lt;br&gt;Keeler, Calvin, W. Schnitzlein, A. Shaffer and D. Tripathy</td>
<td>Darkling Beetles As A Reservoir For Campylobacter In New Zealand Poultry Flocks&lt;br&gt;Bates, Carol, Norman Stern and Kelli Hiett</td>
<td>A New Animal Welfare Approach Inducing Molting In Commercial Layers And Maintaining Immune Responses To Fimbriae Of Salmonella Enteritidis By Ad Libitum Ervil Diet&lt;br&gt;Bianu, Elizabeth, Elie Barbour, Mohammed Farran, Daoud Haddad and Ghida Banat</td>
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Sunday, July 20, 2003 – Afternoon Program
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<td>8:00 AM</td>
<td><strong>Keynote Speaker #4 – A. A. Sami Ahmed</strong>&lt;br&gt;Emerging and Endemic Diseases in Developing Countries</td>
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<td>8:45 AM</td>
<td>Farm And Management Variables Linked To Fecal Shedding Of Campylobacter And Salmonella In Niche-Market Poultry&lt;br&gt;Jeffrey, Joan, Brigid McCrea, Karen Tonooka and Edward Atwill</td>
<td>Distribution, Localization, And Characterization Of The Iro Locus Of Avian Pathogenic Escherichia Coli&lt;br&gt;Dozois, Charles, Ho Young Kang, Annie Brée, Maryvonne Moulin-Schouleur and Roy Curtis III</td>
<td>An Overview Of Ocular Diseases In Poultry&lt;br&gt;Shivaprasad, H. L.</td>
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<td>9:00 AM</td>
<td>Case Report: Investigation Of Salmonella Tolerance Failures At Two Broiler Processing Plants&lt;br&gt;Cline, Joel, Susan Lockaby, Sara Rowe-Motor, Robert Norton and Fred Hoerr</td>
<td>The Contribution To Virulence Of A Plasmid From An Avian Escherichia Coli&lt;br&gt;Skyberg, Jerod, Timothy Johnson, Penelope Gibbs and Lisa Nolan</td>
<td>A Serological Survey Of Wild Helmeted Guineafowl (Numida meleagris) In KwaZulu-Natal Province, South Africa&lt;br&gt;Homer, Roger, Margaret Parker and Charles Ratcliffe</td>
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<td>9:30 AM</td>
<td>Isolations Of Salmonella Enteritidis And Salmonella Typhimurium From Mice In Poultry Flocks&lt;br&gt;Henzler, David and Jean Guard-Petter</td>
<td>Investigations On The Clonality of E. Coli Infections In Industrial Poultry Production&lt;br&gt;Christensen, Jens, Mark Chadfield and Magne Bisgaard</td>
<td>Mortality In Minnesota Game Birds Associated With West Nile Virus Infection&lt;br&gt;Ziegler, Andre and Huanguang Lu</td>
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<td>9:45 AM</td>
<td>Salmonella Pullorum Isolation From A Georgia Backyard Poultry Operation&lt;br&gt;Kelly, Donna, Louise Dufour-Zavala and W. Douglas Waltman</td>
<td>New Results On Vaccination Of Chickens Against Colibacillosis Of Chickens&lt;br&gt;Cserep, Tibor</td>
<td>Pathology Of West Nile Virus Infection In North American Owls (Family Strigidae)&lt;br&gt;Fitzgerald, Scott, Heather Simmons, Jon Patterson, Matti Kiupel, Sheila Grimes, Jeffrey Massey and Richard Fulton</td>
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<td><strong>Moderator:</strong> Chuck Hofacre</td>
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<td><strong>Houghton Lecture</strong>&lt;br&gt;Marek’s Disease Virus Research in the Post-Sequencing Era:&lt;br&gt;New Tools for the Study of Gene Functions and Virus-Host Interactions&lt;br&gt;Vladimir Zelnik</td>
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<td><strong>AAAP Awards Luncheon</strong>&lt;br&gt;11:30AM – 2:00PM</td>
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<td>2:00 PM</td>
<td>Lasher History Lecture</td>
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<td>Dr. Peter M. Biggs</td>
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<td>3:15 PM</td>
<td>Keynote Speaker #5 – Mo Saif Enteric Diseases of Poultry (Viral)</td>
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<td>4:15 PM</td>
<td>Evaluation Of Twelve Stabilizers In A Developed Attenuated Salmonella Enteritidis Vaccine</td>
<td>Assessment Of The Efficacy Of Fluoroquinolones And Other Antimicrobials Against Respiratory Colibacillosis And Septicemia In Chickens Under Standardized Challenge Conditions</td>
<td>Immunological Significance Of Plasma Cell, Russel Bodies And Secretory Products In The Harderian Gland Of White Leghorn Birds – A Histological And Ultrastructural Study</td>
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<td>Barbour, Elie, Alf Abdelnour, Farris Jirjis, Obied Faroon and Mohammed Farran</td>
<td>Frymyan, Robrecht and Jane Cooper</td>
<td>Ramkrishna, Vishveswara and Ashok Pawar</td>
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<td>4:30 PM</td>
<td>A Case Study Of Salmonella Vaccination In Broilers</td>
<td>Progeny Challenge Studies Assessing The Protection Afforded Against Inclusion Body Hepatitis Field Isolates By An Inactivated Avian Adenovirus Vaccine</td>
<td>Stimulation Of The Innate Immune System Of Broiler Chicks With DNA Oligonucleotides Containing CpG Motifs (CpG DNA) Against A Lethal Challenge Of E. Coli</td>
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<td>Kelly, Tami</td>
<td>El-Attrache, John, Pedro Villegas, Gregorio Rosales and Eric Jensen</td>
<td>Gomis, Susantha, Lorne Babiuk, Tannis Thrush, Edwin Waters, Rolf Hecker, Brenda Allan and Andrew Potter</td>
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<td>4:45 PM</td>
<td>Use Of Random Amplification Of Polymorphic DNA For Molecular Characterization Of Salmonella Enterica Serovar Enteritidis Phage Type 4 Strains</td>
<td>Attenuation Of Virulent Fowl Adenovirus Serotype 4 Through Continuous Passage On QT-35 Cells</td>
<td>Effects Of High Dietary Vitamin E Supplementation On The Immune System Of Young Turkey Poults</td>
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<td>Lopes, Vanessa, Binu Velayudhan, David Halvorson and Kakambi Nagaraja</td>
<td>Hess, Michael, Stefan Mantke, Christine Prusas and Hafez Hafez</td>
<td>Heffels-Redmann, Ursula, Thomas Redmann, Christian Menge, Ulrich Eskens, Silke Rautenschlein and Klaus Lange</td>
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<td>5:00 PM</td>
<td>Molecular Epidemiology Of Salmonella On Poultry Farms In NE Georgia</td>
<td>Inclusion Body Hepatitis: Efficacy Of Adenovirus Vaccines To Induce Antibody Response In Chickens</td>
<td>The Value Of Vitamin C Supplementation In Broilers Raised Under Heat Stress And/Or Coccidia Infection</td>
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Monday, July 21, 2003 – Afternoon Program

**Moderator:** Deoki Tripathy

**Moderator:** Spangler Klopp

**Moderator:** Andre Ziegler

**Moderator:** Teresa Morishita
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<tr>
<td>8:00 AM</td>
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<td><strong>Keynote Speaker #6 – Jagdev Sharma</strong>&lt;br&gt;Immunity and Immunosuppressive Diseases of Poultry</td>
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<td><strong>Keynote Speaker #7 – Paul McMullin</strong>&lt;br&gt;Food Safety and Other Contemporary Industry Concerns (Antibiotic Resistance, Animal Welfare)</td>
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<td>9:20 AM</td>
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<td><strong>Keynote Speaker #8 – John Maurer</strong>&lt;br&gt;Food Safety and Other Contemporary Industry Concerns (Antibiotic Resistance)</td>
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<td>10:30 AM – 12:00 Noon</td>
<td><strong>AAAP Business Meeting</strong></td>
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## Tuesday, July 22, 2003 – Afternoon Program

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| 1:00 PM  | **Keynote Speaker #9 – David Swayne**  
Viral Respiratory Diseases of Poultry (AI and NDV Focus) |                                                                                       |                                                                                       |
| 1:45 PM  | **Molecular Epidemiology Of Infectious Bursal Disease Viruses: Use Of Real-Time RT/PCR To Detect New Variants**  
Jackwood, Daral and Susan Sommer | The Rapid Detection Of Avian Influenza Virus By Dot-ELISA  
Lu, Huaguang | Comparative Virulence Of Fowlpox Field Isolates And Vaccine Strains  
Wang, Jianning, Joanne Meers, Peter Spradbrow and Wayne Robison |
| 2:00 PM  | **Induction Of Gut-Associated And Systemic Immunity Following Vaccination And Challenge With IBDV**  
Rautenschlein, Silke and Christine Haase | Avian Influenza In California  
O’Connor, Robert | Emergence Vaccination Against Fowl Poxvirus In Laying Flock Under Field Condition  
Jodas, Silvia and Hafez Hafez |
| 2:15 PM  | **A Comparison Of Infectious Bursal Disease Vaccine Viruses To A vvIBD Field Isolate Present In Brazil Using Bursal Image Processing Analysis And Other Techniques**  
Bernardino, Alberto, Kalen Cookson, Ronan Leite and Roberto Naime | Low Pathogenic Avian Influenza Virus In Commercial Chicken Flocks In South Africa  
Horner, Roger, Marco Romito, Shahn Bisschop and Raina Maharaj | Antimicrobial Susceptibility Monitoring For Poultry In Europe  
De Jong, Anno and Robrecht Froym |
| 2:30 PM  | **Break**                                                                                       | **Break**                                                                            | **Break**                                                                            |
| 3:00 PM  | **Generation Of Chicken Single Chain Antibody Variable Fragments For Infectious Bursal Disease Virus**  
Ignjatovic, Jagoda, Sandra Sapats, Hans Heine, Lee Trinidad and Gaylen Gould | A Description Of The Serologic Response To Avian Influenza Vaccine In Turkeys  
Pabilonia, Kristy, Brian Wooming, Christina Gerhard and Nancy Reimers | Consequences Of Growth Promoter Removal And Increased Use Of Anticoccidial Vaccine – European Experience  
Moritmer, Iain and Keith Lawrence |
| 3:15 PM  | **Pivotal Role Of Interferon Gamma In Infectious Bursal Disease**  
van den Berg, Thierry, Bénédicte Lambrecht, Fabienne Rauw, Dolores Morales and Guy Meulemans | Avian Influenza H5N2 Outbreak In Commercial Poultry – 2002, Virginia, USA  
Karunakaran, Daniel | The Impact Of Growth-Promoting Antibiotics On Total Poultry Microbiota As Well As Enterococcus Population Present On Poultry Carcass  
Avellaneda, Gloria, Jinrang Lu, Tongrui Liu, Margie Lee, Charles Hofacre and John Maurer |
| 3:30 PM  | **Molecular Identification Of Very Virulent Infectious Bursal Disease Virus In Chickens From Jordan**  
Al-Natour, Mohammad | A Novel Approach To The Control Of Avian Influenza Infections Caused By Viruses Of The H5 And H7 Subtypes  
Capua, Ilaria and Stefano Marangon | Isolation Of Bacterial Pathogens From Poultry Eggs In Grenada  
Kabuusu, Richard, Theresa McCann and ravindra Sharna |
| 3:45 PM  | **Sequencing Analysis Of The VP-2 Region Of Several Infectious Bursal Disease Virus Isolates From The United States And Abroad**  
Cookson, Kalen, Daral Jackwood and Jeff Rodenberg | Field And Laboratory Investigations On The Low Pathogenicity H7N3 Avian Influenza Outbreaks Affecting Northern Italy In 2002  
Cattoli, Giovanni, Calogero Terregino, Elena Bertoli Giovanni Ortali, Stefano Marangon and Ilaria Capua | Prevalence, Strains, And Antimicrobial Resistance Patterns Of Campylobacter Identified On North Carolina Turkey Farms  
Carver, Donna, Sophia Kathariou and Lee Shepherd |
| 4:00 PM  | **Development Of New Infectious Bursal Disease Virus Vaccine**  
Abbassi, Hayet, Alicia Copa and Jagdev Sharma | Factors Influencing Proposed Changes To The OIE Code Definition Of Highly Pathogenic Avian Influenza (HPAI) And Regulatory Implications Of The Change  
Senne, Dennis and Brundaban Panigrahy | A High-Throughput Molecular Method To Quantify Relatedness Of Human And Chicken Enterococcus Faecium Isolates  
Steege, Anneke, T. S. Cummings, D. Sullivan, and S. C. Burgess |
| 4:15 PM  | **Withdrawn**                                                                                       | Recombination Leading To Increased Virulence In The Chile H7N3 Influenza Poultry Outbreak  
Suarez, David, Dennis Alexander, Jill Banks, lan Browne, Chang-Won Lee, Dennis Senne and Erica Spackman | The Use of a Modified Electromagnetic Field (EMFM) In Addressing The Welfare Concerns Of Commercial Layers (CL)  
Keirs, Robert |
| 4:30 PM  | **Adjourn**                                                                                       | **Adjourn**                                                                            | **Adjourn**                                                                            |
| 4:45 PM  | **WVPA Business Meeting**                                                                            | 4:45 PM – 6:00 PM                                                            | 4:45 PM – 6:00 PM                                                                 |

**Moderator:**  
- Session A – Ballroom 1: Joe Giambrone  
- Session B – Ballroom 4: Dan Karunakaran  
- Session C – Room C201: Fred Hoerr
Wednesday, July 23, 2003 – Morning Program

**Session A – Ballroom 1**

**Moderator:** Guillermo Zavalla

**8:45 AM**

**Eradication Of ALV-J From Broiler Breeder Flocks In Australia**

Bagust, Trevor, Simon Fenton and Maddula Reddy

**Phylogenetic Relationships Among The CA 2002 And 1996-2000 Mexican Newcastle Disease Virus (NDV) Isolates And Other Virulent NDV Isolates**

Pedersen, Janice, Dennis Sennen, Peter Woolcock and Bruce Seal

**Factors Affecting Subgroup J Avian Leukosis Virus Tolerance In Commercial Meat-Type Chickens**

Pandiri, Arun, Willie Reed and Aly Fadly

**Phylogenetic Relationship Among Pigeon Paramyxovirus Type-1 (PPMV-1) Isolates**

Barlic-Maganja, Darja, Uros Krapez, Ivan Toplak, Sara Mankoc, Joze Grom, and Olga Zorman-Rojs

**Co-Infections And Interaction Of Subgroup J Avian Leukosis Viruses And Avian Reticuloendotheliosis Viruses Could Cause Severe Immunodepression In Broilers**

Cui, Zhizhong, Jianxin Wang and Zhi Zhang

**Experimental Susceptibility Of Pigeons, Doves And Japanese Quail To vvENC Strain**

Alba, Monica, Eliana Icochea, Pablo Reyna, Fabiola Caballero, Tatiana Quevedo, Alberto Vargas and Rosa Gonzalez

**Response To White Leghorn Chickens Of Various B Haplotypes To Infection With Subgroup J Avian Leukosis Virus Mays, Jody, Larry Bacon, Arun Pandiri and Aly Fadly**

**Monitoring Of Circulation Of Ortho- And Paramyxoviruses In Wild And Domestic Birds In Russian Federation (2000-2002)**

Lnov, Dmitri, Svetlana Yannikova, Taras Aliper, Eugene Nepoklonov, David Suarez and David Swayne

**Pathogenicity Of A Molecular Clone Of A Field Strain Of Subgroup J Avian Leukosis Virus**

Lupiani, Bianca, Arun Pandiri, Jody Mays, Kathleen Conklin, Robert Silva, Willie Reed and Aly Fadly

**Ecological, Antigenic, And Genetic Studies On Other-Than-NDV Avian Paramyxoviruses (APMV) Isolated In Israel**

Shihmanter, Esther, Yoram Weisman, A. Panshin, E. Lapin, I. Gissin and M. Lipkind

**The Incidence Of Tumors In Selected Genetic Strains Of Chickens**

Fabricant, Julius and Bruce Calnek

**Expression Of The Hemagglutinin-Neuraminidase Gene Of NDV On A Fowl Adenovirus 9-Based Gene Expression Vector**

Nagy, Eva, Yanlong Pei and Davor Ojkic

**Marek’s Disease In Turkeys and Japanese Quail In Southwest Scotland**

Thomas W. Pennycott

**Immunohistochemical Detection Of Paramyxovirus In The Brains Of Broiler Breeder Chickens With Encephalitis**

Lockaby, Susan, Joel Cline and Frederic Hoerr

**The Effects Of Mutations In Newcastle Disease Virus Strains LaSota And Beaudette C On Their Pathogenicity In Chickens**

King, Daniel, Nobuko Wakamatsu, Ben Peeters, Siba Samal, Corrie Brown and Bruce Seal

**The Effect Of Mutations In Newcastle Disease Virus Strains LaSota And Beaudette C On Their Pathogenicity In Chickens**

**Examination Of The Restoration Of Sensitivity To Clinacox By Using Cocci-Vac B**

Mathis, Greg and Charlie Broussard

**The Effects Of Clinacox And Coban Upon The Performance Of Tom Turkeys And The Development Of Immunity To Eimeria Species**

Chapman, HD, Phil Matsler, Jennifer McFarland and Mark Chapman

**Vaccination Of Broilers With An Experimental Live Attenuated Coccidiosis Vaccine**

McDougald, Larry and Lorraine Fuller

**The Impact Of CocciVac-B Antigenic Capabilities When Used Concurrently With Roxarsone Or Salinomycin**

Davis, Stephen, John Radu, Steve Fitz-Coy and Richard Phillips

**Developmental, Nutritional, and Metabolic Diseases of Poultry**

**Keynote Speaker #10 – Kirk Klasing**

**Keynote Speaker #11 – David Chapman**

**Enteric Diseases of Poultry (Protozoal)**

**Moderator:** Patricia Wakenell

**Break**

10:00 AM – 10:30AM

**Break**

10:00 AM – 10:30AM

**Break**

10:00 AM – 10:30AM

**Lunch**

12:00 Noon - 1:00 PM

**Lunch**

12:00 Noon - 1:00 PM

**Lunch**

12:00 Noon - 1:00 PM
### Wednesday, July 23, 2003 – Afternoon Program

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| 1:00 PM | **Keynote Speaker #12 – Richard Witter**  
**Neoplastic Diseases of Poultry** | **The Effect Of Dietary Lysine Deficiency On The Immune Function Of Chickens**  
Sander, Jean, Chieh-Fu Chen, I-Hsien Cheng and Nicholas Dale | **Reproductive Potential In Female And Male Domestic Fowl Exposed To Lead Acetate**  
Eltohamy, Magnda |
| 1:45 PM | **Characterization Of The Marek’s Disease Virus LORF-10 Gene**  
Silva, Robert, Blanca Lupiani and Sanjay Reddy | **An outbreak of Exotic Newcastle Disease in Chickens in Southern California**  
Sander, Jean, Chieh-Fu Chen, I-Hsien Cheng and Nicholas Dale |
| 2:00 PM | **Role Of The Gene PP38 In The Pathogenesis Of Marek’s Disease Virus**  
Gimeno, Isabel, Richard Witter, Robert Silva and Sanjay Reddy | **Marker Newcastle Disease Virus (NDV) Vaccines: Single Combined Immunization With A Marker NDV And A Recombinant HVT Expressing The NDV F Protein Provides Early And Long Lasting Immunity**  
Cross-Landsman, Imke, Mark Koolen, Paul Sondermeijer and Teshome Mebatsion | **Proteomics: Investigating The Molecular Basis Of Normal And Pathological Avian Physiology**  
Burgess, Shane |
| 2:15 PM | **The Role Of Glycoprotein C In Marek’s Disease Virus Lytic Replication**  
Osterrieder, Nikolaus, Karsten Tischer and Vladimir Zelnik | **Safety And Efficacy Of Turkey Herpesvirus Vectored Newcastle Disease Vaccine**  
Jirjis, Faris, Paul Sondermeijer and Imke Cross-Landsman | **Chondrocyte Maturation In Thiram-Induced Tibial Dyschondroplasia In Poultry**  
Rath, Narayan, Janice Balog, William Huff and Geraldine Huf |
| 2:30 PM – 3:00PM | **Increased Nitric Oxide Levels In Chickens With Neurological Syndromes Associated With Very Virulent Plus Marek’s Disease Virus**  
Jarosinski, Keith, Brad Njaa, Priscilla O’Connell and Karel Schat | **Compatibility Of A Novel Newcastle Disease Vaccine With Marek’s Vaccines When Co-Administered In Ovo**  
Haddad, Eid, Craig Whitfill, Alan Avakian, Don Groesse, Michael Martin, Donald Link and Patricia Wakenell | **Serum Chemistry Changes In Response To Challenge With NDV, IBDV Or MDV In Commercial Broilers**  
Wakenell, Patricia and Craig Blackmore |
| 3:00 PM | **Retro- and Prospective Analysis Of Marek’s Disease Outbreaks: Titration Of Marek’s Disease Cell-Associated Vaccine Virus (CVI 988) And Bacterial Contamination Of Vaccine Ampoules And Reconstituted Vaccine From Dutch Hatcheries**  
Landman, Wil, Sylvia Verschuren, Piet Doornenbal, Carolien Flemming and Jaap Wagenaar | **Reed Rumsey Award**  
Development Of A Novel DNA Vaccine Against Newcastle Disease Virus  
Moura, Lenita and Vikram Vakharia | **Avulsion Of The Tibial Crest A Cause Of Lameness And Leg Hemorrhage In Turkey Breeder Candidates**  
Hoerr, Frederic, Charles Corsiglia and G. Yan Ghazikhanian |
| 3:30 PM | **Compromising Effective Marek’s Disease Vaccination**  
Jackson, Clive and Gregory Underwood | **Serum Chemistry Changes In Response To Challenge With NDV, IBDV Or MDV In Commercial Broilers**  
Wakenell, Patricia and Craig Blackmore | **Multiblending Formulation “Siformu-Opt” For Maximum Profit Using Energy, Protein, Digestable Methionine And Lysine In Broilers**  
Ortega, Jose, Ariel Ortiz, Ernesto Avila and Mariano Gonzalez |
| 3:45 PM | **Recombinant DNA Vaccines To Control Marek’s Disease: Where Do We Stand?**  
Reddy, Sanjay and Blanca Lupiani | **Protective Immunity To Newcastle Disease In Broilers Vaccinated In Ovo With An Infectious Bursal Disease-Antibody Complex Vaccine And Against Newcastle Disease Post-Hatch**  
Martin, Michael, Alan Avakian, Patricia Wakenell, Craig Blackmore and Craig Whitfill | **Avulsion Of The Tibial Crest A Cause Of Lameness And Leg Hemorrhage In Turkey Breeder Candidates**  
Hoerr, Frederic, Charles Corsiglia and G. Yan Ghazikhanian |
| 4:00 PM | **Closing - AVMA, AAAP, WVPA** | | |
| 4:45 PM | **ADJOURN** | | |
Adeno
1. **Sequence Analysis And Viral Rescue From An Infectious Clone Of The Avian Adeno Associated Virus**
   Estevez, Carlos and Pedro Villegas

2. **Diagnosis Of Avian Adenovirus Type 2 Using PCR**
   Lavazza, Antonio, Diane Persia, Ana Moreno Martin, Maria Lodovica Pacciarini, Monica Cerioli, Paolo Cordioli and Paola Massi

3. Not Confirmed

4. Not Confirmed

5. Not Confirmed

Bacteria, Miscellaneous
6. **Ornithobacterium Rhinotracheale In Israel – Review**
   Bock, Rachel

7. **Detection Of Gallibacterium Spp. In Chickens By Fluorescent 16s rRNA In Situ Hybridization**
   Bojesen, Anders, Henrik Christensen, Ole Nielsen and John Olsen

8. **Universal PCR For Detection Of Haemophilus Paragallinarum, Ornithobacterium Rhinotracheale And Pasteurella Multocida In Chickens**
   Hung, Armando and Giuliana Medrano

9. **Quantification Of Enterococcus Faecalis-Induced Bacteraemia In Brown Layer Pullets**
   Landman, Wil, Kees Veldman, Dik Mevius and Jo Van Eck

10. **Reimerella Anatipestifer-Like Organism Causing Meningitis In Turkeys**
    Lublin, Avishai, Sara Mechani, Samuel Perl and Hanoch Yuval

11. **Molecular Characterization Of Plasmids With Antimicrobial Resistant Genes In Avian Isolates of Pasteurella Multocida**
    Shieh, Happy, Poa-Chun Chang, Jin-Ru Wu, Jui-Hung, Shieh and Shuen-Rong Gong

12. **Cross-Protection Studies Among Nine Serovars Of Haemophilus Paragallinarum In The Blackall Scheme**
    Soriano, Edgardo, Manuel Longinos, Pomposo Fernandez, Guillermo Tellez, Francisco Suarez and Patrick Blackall

13. **Proposal Of The Blackall Scheme For Hemagglutinin Serotyping Of Haemophilus Paragallinarum**
    Soriano, Edgardo, Guillermo Tellez and Pomposo Fernandez

14. **A New And Emerging Disease Of Chickens Caused By Pasteurella Haemolytica-Like Organisms: Prevalence, Isolation and Characterization**
    Vazquez, Maria Elena, Raul Campogarrido, Humberto Rodriguez, Vaithianathan Sivanandan and Carlos Gonzalez

15. **Molecular Epidemiology Of Two Fowl Cholera Outbreaks On A Free-Range Chicken Farm**
    Zhang, Peijun, Narelle Fegan, Paul Duffy and Pat Blackall

    Chadfield, Mark, Jens Christensen, Henrik Christensen and Magne Bisgaard

17. **Co-infection And Interaction Of Avian Infectious Anemia Virus And Reticuloendotheliosis Virus In Chicken Flocks**
    Cui, Zhizhong, Shuhong Sun and Yan Du
18. **Serological Evidence Of Chicken Infectious Anemia In Nigerian Indigenous Chickens**  
Emikpe, Benjamin, Oluwayelu Oladimeji, Oladele Omolade, Ohore Godspower and Oladokun Tinuke

19. **Immunopathological Changes And PCR Tracing Of CAV Live Attenuated Vaccine In One Day Old Chicks**  

20. **Characterization Of Chicken Infectious Anemia Outbreaks In Slovenia**  
Krapez, Urs, Darja Barlic-Maganja, Sara Mankoc and Olga Zorman-Rojs

21. **Antibody Detection Of Chicken Infectious Anemia Virus By A Competitive Commercial ELISA In Vaccinated Broiler Breeder And Their Progeny**  
Quezada, Benjamin, Eliana Icochea, Monica Alba and Rosa Gonzalez

22. **Detection of Chicken Infectious Anaemia Virus With Polymerase Chain Reaction**  
Tosi, Giovanni, Francesca Paganeli, Laura Fiorentini, Paola Massi and Antonio Lavazza

23. **Generation Of Chicken Anemia Virus (CAV) Infectious For Chickens From Infectious Clone Generated Directly From Clinical Specimen By PCR**  
Van Santen, Vicky, Haroldo Toro and Frederic Hoerr

**Education, General Disease and Small Flock**

24. **Poultry Veterinarians: Postgraduate Education To Meet Professional Needs In The 21st Century**  
Bagust, Trevor

25. **Breaking International Barriers In The Poultry Industry: The UNAM’s Unique Academic Training For Poultry Medicine Specialists**  
Barger, Katherine, Jean Pierre Vaillancourt, Jose Quintana, Magdalena Escorcia, Carlos Coello and Marco Juarez

26. **Isolation Of Infectious Larygotracheitis Virus (ILTV) From Peafowls And Chickens With A History of Respiratory Diseases**  
Bautista, Daniel, Nathaniel Tablante, Robert Robison and Fidelis Hegngi

27. **The Use Of A Continual Disinfection Program For The Control Of Infectious Diseases In Layers and Broilers**  
Bragg, Robert

28. **Genetic Variation In Psitacine Beak And Feather Disease Virus From Different Psittacine Birds**  
Bragg, Robert, Kulsum Tujibhai and Jacobus Albertyn

29. **Production Of Chicken Proventricular Organ Culture For Use In Infectious Disease Studies**  
Brown, Thomas, Mary Pantin-Jackwood and Pedro Villegas

30. **Composting Chicken Litter With Or Without Carcasses For Control Of Poultry Diseases In Argentina**  
Buscaglia, Celina and Elena del Barrio

31. **Establishment Of A Testing Method To Detect Virocidal Activity Of Commercial Disinfectants**  
Cheng, I-Hsin and Jean Sander

32. **Mortality In Organic Free-Range Chickens and Molecular Characterization Of The Involved Pathogens**  
Eigaard, Nicoline, Permin Anders, Jens Christensen and Magne Bisgaard

33. **Erysipelas In Layers – A Growing Problem In Aviary And Organic Housing Systems**  
Eriksson, Helena, Desiree Jansson, Oddvar Fossum, Jan Chirico and Anders Gunnarsson

34. **Retrospective Study Of Diseases In Michigan Gamebirds**  
Fulton, Richard and Dwight Schwartz

35. **Cloacal Prolapse In Ostrich Chicks With Histomonosis**  
Georgiades, Georgios, Prodromos Iordanidis, Margarita Papazahariadou, Nikolaos Papaioannou and Stavros Frydas

36. **Compilation Of Hatchery Microbiological Evaluations**  
Hubbard, Sue and Reagan Sadler

37. **Evaluation Of Safety And Effectiveness Of Chlorine Dioxide As A Hatchery Disinfectant**  
Mitevski, Darko and Jean Sander

38. **Reproduction Of Proventriculitis In Commercial And SPF Broiler Chickens**  
Pantin-Jackwood, Mary and Thomas Brown
**Immunology, Immunity and Vaccines**

39. **Effects Of Recombinant IL-6 On The Functional Activities Of Day-Old Chicken Heterophils**  
   Ferro, Pamela, Christine Swaggerty, Virginia Lowry, Pete Kaiser, Lisa Rothwel and Michael Kogut

40. **Differences In Lymphocyte Distribution Between Broilers Divergently Selected for High Or Low Early Antibody Responce To Escherichia Coli Vaccine**  
   Heller, Dan, Yotva Lavi, Avigdor Cahaner, Gabi Leitner and Irit Davidson

41. **Immunohistopathological Investigation In Broilers Given Difference Levels Of Neem Oil (A. indica) In Feed**  
   Joshi, Madan, Ulhas Deore, Sudhakar Mehasare and Vinayak Pathak

42. **Regulated Bacterial Lysis For DNA Vaccine Vector Delivery**  
   Kong, Wei, Soo-Young Wanda and Roy Curtiss III

43. **Molecular Cloning And Characterization Of A New Proinflammataory Chicken Cytokine Which Induces IL-6 Production**  
   Min, Wongi and Hyun Lillehoj

44. **Sequence And Functional Properties Of A New Proinflammatory Chicken Cytokine Homologous To Mammalian IL-16**  
   Min, Wongi and Hyun Lillehoj

45. **Use Of Echinacea Angustifolia As Natural Immunostimulant In The Poultry Industry**  
   Ortiz, Ariel, Juan Carlos Del Rio, Yasmin Luis, Carlos Avila, Celso Lopez, and Ana Hernandez

46. **Effects Of cGnRH-I Pulse Frequencies In Laying Hen Lactotrope And Somatotrope Populations In Vitro**  
   Plano, Carlos, Maria Sonez, Ana Di Matteo, Gustavo Delhon and Irene Von Lawzewitsch

47. **Not Confirmed**

48. **Bromodialone Induced Down Regulation Of Humoral Immunity In Chicken**  
   Singh, Desh Deepak, Rajesh Baghha, Lokesh Singhal and Ramswaroop Chauhan

49. **Generation And Evaluation Of Recombinant Vaccines For Protection Against Fowlpox And Reticuloendotheliosis In Chickens**  
   Singh, Pratik and Deoki Tripathy

50. **Activity Of Uncitolina EA5 And Macandina On The Immune System Of Chicken Broilers**  
    Valdiva, Ricardo, Eliana Icochea, Ximena Rossello and Sebastian De la Piedra

51. **Bioengineering Arabidopsis To Express VP2 Gene Of IBDV And S1 Gene of Reovirus As An Edible Vaccine**  
    Wu, Hongzhaun, Narendra Singh, Robert Loey, Karyn Gunn and Joseph Giambrone

**Infectious Bronchitis Virus**

52. **Turkey Coronavirus Spike Glycoprotein Gene Sequence Of Evolutionary Relationships To Other Coronaviruses**  
    Jackwood, Mark, Deborah Hilt and Scott Callison

53. **RT-PCR And RFLP Characterization Of IBV Strains Isolated From Diseased Poultry In Costa Rica**  
    Jimenez, Carlos, Rocio Cortes, Marcia Ramirez, Jorge Prendas, Ennie Arrieta and Carlos Zuniga

54. **Deleniation Of IBV-Recombinant Plasmid DNA In Embryonating And In Hatched Chicks**  
    Khan, Mazhar and Jaroslaw Fabis

55. **Detection And Genetic Characterization Of Avian Infectious Virus In Chile**  
    Lopez, Juan, Robin McFarlane and Jorge Ulloa

56. **Construction Of A Full-Length cDNA Library For Cal-99 Infectious Bronchitis Virus**  
    Mondal, Shankar and Carol Cardona

57. **S1 Glycoprotein Gene Analysis Of Recent Infectious Bronchitis Viruses Isolated In Korea**  
    Pak, Son Il, Haan Woo Sung and Hyuk Moo Kwon

58. **Efficacy Study With 3 Attenuated Infectious Bronchitis Vaccine Strains Of The Massachusetts Type In SPF Chickens**  
    Picault, Jean-Paul, Josiane Lamande, Chantal Allee, Yannick Morin and Sylvain Comte

59. **Some Experimental Results Concerning Comparative Pathogenicity Of Infectious Bronchitis Serotypes CR88 And Massachusetts In Chickens And Their Prophylaxy**
60. Glycohistochemistry In Broilers Respiratory Tract Vaccinated Against Infectious Bronchitis (IB) And Newcastle Disease (NC)
Plano, Carlos, Ana Di Matteo, Maria Sonez and Irene von Lawzewitsch

61. Not Confirmed

62. Comparison Of Different Tissues For IBV Detection By RT-PCR
Toro, Haroldo, Frederic Hoerr and Lanqing Li

63. Nested-PCR For Serotype Identification Of Infectious Bronchitis Virus
Tosi, Giovanni, Francesca Paganelli, Laura Fiorentini, Paola Massi and Antonio Lavazza

Leukosis
64. Expression Of Mutant Tumor Suppressor Gene P53 In Avian Leukosis Subgroup J In Egg-Type Chicken
Xu, Binrui, Weixing Dong, Zhaqing He, Chunming Yu, Li Zhang, Xiaoyu Feng and Ning Li

65. Not Confirmed

66. Comparison Of Different Tissues For IBV Detection By RT-PCR
Toro, Haroldo, Frederic Hoerr and Lanqing Li

67. Nested-PCR For Serotype Identification Of Infectious Bronchitis Virus
Tosi, Giovanni, Francesca Paganelli, Laura Fiorentini, Paola Massi and Antonio Lavazza

Marek’s Disease Virus
66. Routine Monitoring Of Marek’s Disease Viraemias And Detection Of Wild Type Infection Using Molecular Methods
Burgess, Graham and Ramon Layton

67. Pathogenesis And Mutagenesis Studies On Marek’s Disease Viruses Encoded Interlekin-8 Gene (vIL8)
Cui, Xiaoping, Lucy Lee, Willie Reed and Sanjay Reddy

68. Reticuloendotheliosis Viruses And Marek’s Disease Viruses Were Often Isolated Simultaneously From Chicken Flocks Vaccinated With CV1/988 Rispens And Having Late Marek’s Disease Tumor Outbreaks
Cui, Zhizhong, Zhi Zhang, Shijin Jiang and Jiao Zhou

69. Molecular Interaction Between Marek’s Disease And Retroviruses in Dually-Infected Chickens
Davidson, Irit and Rinat Borenshtain

70. Strain Differentiation Of Serotype 1 Marek’s Disease Virus In Australian Poultry Using Conventional And Real Time PCR
Layton, Ramon and Graham Burgess

71. Identification And Characterization Of LORF11 Unique To Three Serotypes Of Marek’s Disease Virus
Lee, Lucy, Sanjay Reddy and Robert Silva

72. Expression Of Marek’s Disease Virus PP38 In The Tet-on Inducible QT35 Cell Line, The DF-1 Cell Line And Primary CEF
Li, Xinhui and Karel Schat

73. Evaluation Of Efficacy Of In-Ovo Vaccination Against Marek’s Disease In Broilers Marketed At Early Age In Korea
Mo, In-Pil, Wong-woo Lee, Do-Wook Go, Myung-Soo Hwang and Seol-Ryun Jeong

74. The Description Of Chickens Immune Organs, Cellular Composition, Infected By Pathogenic And Vaccine Strains Fe-126 And VI-988 Viruses Of The Marek’s Disease
Sadovnikov, Nikolay and L. I. Malakhryeva

75. Evaluation Of An Enzyme Linked Immunosorbent Assay For Monitoring Antibody To Marek’s Disease In Vaccinated Commercial Leghorn Chickens
Spencer, Lloyd and Maria Chan

76. Not Confirmed

77. Natural Killer Cell-Mediated Immune Response To Marek’s Disease Virus-Encoded Glycoproteins
Zhu, Min and Karel Schat

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78. Not Confirmed
79. Immunogenicity And Safety Of A New Viscerotropic ND-Vaccine  
Adene, Daniel, Omolade Oladele, Stephen Akpavie and Tunde Lawal

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81. Efficacy Comparison Of Genotype VII, IX And II Vaccine Of Newcastle Disease  
Cao, Dianjun, Lihui Yan, Peixin Liu, Jianhong Sun, Lujian Qu, Hongmei Li and Haiyan Wang

82. The Status Of Newcastle Disease In Free-Ranging Chickens In South Africa And It’s Possible Control By Means Of A Commercial Thermostable  
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83. Cevamune Tablets: Protection And Safety Toward Vaccine Viruses  
Kelemen, Maria, Erzsebet Saghy, Sylvain Comte and Laurent Mogenet

84. Testing Safety And Efficacy Of Live Combined ND-IB Viral Vaccine On Day-Old SPF And Broiler Chicks  
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85. Study On Biological Property Of PPMV-JS And Sequencing-Homology Analysis Of Partial Fusion Protein  
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86. Field Vaccination Trials With Malaysian Thermostable Newcastle Disease Vaccine (NDV4) In Village Chickens In Kaduna State, Nigeria  
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87. Pathogenesis Of Various Strains Of Newcastle Disease Virus In Embryos, Using In Situ Hybridization And Immunohistochemistry  
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88. Virulence Markers Of Pigeon Paramyxovirus Type 1 (PPMV-1)  
Panigrahy, Brundaban, Dennis Senne and Janice Pedersen

89. Changes In CD4+ And CD8+ T-Cell Subpopulations In Chicken Vaccinated With LaSota Or V4 Strains Of Newcastle Disease Virus  
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90. The Role Of Newcastle Disease Virus Fusion, Phosphoprotein, And Hemagglutinin-Neuraminidase Genes In Causation Of Disease  
Wakamatsu, Nobuko, Daniel King, Ben Peeters, Siba Samal, Corrie Brown and Bruce Seal

91. Rapid Detection Of Newcastle Disease Virus Using A Real-Time Reverse Transcriptase PCR Assay For Viral Nucleic Acid  
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Pneumovirus

92. Avian Pneumovirus Infection In Turkey and Broiler Farms In Italy: A Virological And Serological Field Survey  
Catelli, Elena, Mattia Cecchinato, Mauro Delogu, Maria Alessandra De Marco, Giovanni Ortali, Carlo Franciosi and Clive Naylor

93. Protection Of Recombinant N Protein Of Avian Pneumovirus Against Respiratory Challenge In Turkeys  
Chary, Parag, Moses Njenga, Kakambi Nagaraja and Jagdev Sharma

94. Failure To Detect Molecular And Serological Evidence Of Avian Pneumovirus Infection In Wild Aquatic Birds In Italy  
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95. Avian Pneumovirus (APV) And Its Persistence In Poultry  
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96. Assessment Of RT-PCR And IIF To Detect Avian Pneumovirus (A, B and C) In Experimentally Infected Chickens  
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98. Fusion Gene Mutants Of Avian Pneumovirus (APV) And Their Cytopathic Effects In Vero Cells  
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Processing
Reducing DOA’s At Processing Plants
Gustin, Scott and Charles Hofacre

Transport Mortality, Condemnation Rate And Pathological Findings In Broilers In Two Swiss Processing Plants
Hoop, Richard

Investigation Of Liver Hepathopathy In Broiler Chickens Associated With Preharvest Feed Withdrawal
Trampel, Darrell, Dong Ahn and Jerry Sell

Salmonella
The Effect Of Ascorbic Acid On Egg Contamination, Fecal Shedding, And Heterophil Bacterial Killing During Salmonella Enteritidis
Andreasen, Claire, Dagmar Frank and Joann Kinyon

Isolation And Charactertization Of Salmonella Enterica From Layer Farms In Macedonia
Bauerfeind, Rolf, Risto Prodanov, Stefanie Barth, Wolfgang Rabensch and Darko Mitevski

Field Assessment Of A Salmonella Subtype Enteritidis Specific PCR Method Vs. Traditional Culture Method
Charlton, Bruce, Cathryn Bauer, Sally Channing-Santiago, Haily Kinde and Richard Walker

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