



XIII CONGRESS OF THE WORLD VETERINARY POULTRY ASSOCIATION

JULY 19-23, 2003
DENVER, COLORADO



SCIENTIFIC PROGRAM

Sunday, July 20, 2003 – Morning Program			
	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Karel Schat		
8:00 AM	Opening - AVMA, AAAP, WVPA		
8:40 AM	Keynote Speaker #1 - Dick Jones Viral Respiratory Diseases of Poultry (IBV, LT, Pneumo)		
9:20 AM	Keynote Speaker #2 - John Glisson Mycoplasmal and Bacterial Diseases of Poultry		
	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM
	Moderator: Sara Steinlage	Moderator: Calvin Keeler	Moderator: Karel Schat
10:30 AM	A New And Emerging Disease Of Chickens Caused By Pasteurella Haemolytica-Like Organisms: Disease And Control Strategy Gonzalez, Carlos, Maria Vazquez, Raul Campogarrido, Rodriguez Humberto and Vaithianathan Sivanandan	Trends In Live Avian Pneumovirus Vaccination In The UK Naylor, Clive, Dick Jones and Dave Cavanagh	Novel Characteristics Of Recent Isolated Avian Reoviruses In The USA Hein, Ruud, Gwen Slacum, Phyllis Lynch and Saskia Van de Zande
10:45 AM	The Effects Of Differences In Virulence Of Different Serovars Of Haemophilus Paragallinarum On Vaccine Efficacy Bragg, Robert	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 Medina, Hugo	Central Nervous System Disorders Caused By A New Avian Reovirus Van de Zande, Saskia, Sander van Bommel, Eva Kuhn and Ruud Hein
11:00 AM	Serologic Response And Resistance Of Hens Vaccinated With Different Serotypes Of Haemophilus Paragallinarum Ortiz, Ariel, Juan Carlos Del Rio and Alejandro Garcia	Protection Of Chickens Against Infections Caused By Avian Pneumovirus Cook, Jane, Michael Huggins and Sarah Orbell	Development Of A Safe And Efficacious In Ovo Administered Antibody Complex Vaccine Against Avian Reoviruses Giambrone, Joseph and Zhuyan Guo
11:15 AM	Chicken Embryo Lethality Assay For Determining The Pathogenicity Of Ornithobacterium Rhinotracheale Isolates Hafez, Hafez and Christina Popp	Immunization Of Turkeys With A DNA Vaccine Expressing Either The F Or N Gene Of Avian Metapneumovirus Kapczynski, Darrell and Holly Sellers	Improved Diagnostics For Poult Enteritis Miles, Andrea, H. John Barnes, Lorrie Brundige, James Guy, Nancy Reimers, David Rives and Jean-Pierre Vaillancourt
11:30 AM	Minimum Inhibitory Concentration (MIC) Assay For Determining Antibiotic Sensitivity Of Ornithobacterium Rhinotracheale Isolates In Vitro Popp, Christina and Hafez Hafez	Efforts To Eradicate Avian Pneumovirus Halvorson, David, Carl Heeder, Dale Lauer, Kakambi Nagaraja, Moses Njenga, Don Roepke, Ron Lippert and Brian McComb	Increased Intestinal Weight And Length Is A Non-Specific Indicator Of Enteritis In Turkey Poults Reimers, Nancy, H. John Barnes, Andrea Miles and Clark Gray
11:45 AM	Pasteurella Multocida Infection In Heterophil-Depleted Chickens And Turkeys Bojesen, Anders, Kamille Petersen, Ole Nielsen, Jens Christensen and Magne Bisgaard	Richard Rimler Award Identification and Sequence Analysis Of Avian Metapneumoviruses in Wild Birds Outside Of Endemic Areas Turpin, Elizabeth	Effects Of Poult Enteritis And Mortality Syndrome On Commercial Turkey Performance Rives, David, Julian Brake, Andrea Miles, H. John Barnes, S Schultz-Cherry, James Guy and Nancy Reimers
	Lunch 12:00 noon – 1:15PM	Lunch 12:00 noon – 1:15PM	Lunch 12:00 noon – 1:15PM

Sunday, July 20, 2003 – Afternoon Program

	Session A - Ballroom 1	Session B - Ballroom 4	Session C – Room C201
1:15 PM	Safety Of The Mycoplasma Gallisepticum Vaccine Strain 6/85 After Backpassage In Turkeys Kleven, Stanley, Manal Zaki, Naola Ferguson, Victoria Leiting and Ruth Wooten	Replication Interference Associated With Infectious Bronchitis Virus And Newcastle Disease Virus Co-Infections Gelb, Jr., Jack, Liam Campion and Brian Ladman	Chicken Anaemia Virus: Subclinical Infection In Broilers Zanella, Antonio, Rafaella Ceruti, Luigi Gavazzi and Alberto Volorio
1:30 PM	Enterococcus Sp. Related Arthritis In Broilers Salem, Mariano, John Rosenberger, Sandra Cloud, Conrad Pope, Brenda Sample and Kathy Phillips	Colibacillosis Inducing Ability Of Massachusetts Type IB Vaccine – And Field Virus In Commercial Broilers Matthijs, Mieke, Jo Van Eck, Wil Landman and Arjan Stegeman	Detection And Environmental Monitoring Of DNA Viruses Using The Feathers Of Commercial Chickens Davidson, Irit, M. Kedem, H. Borochovitz, R. Borenshtain, Ester Hamzani and B. Smith
1:45 PM	Characterization And Identification Of Enterococcal Strains Isolated From Disease Outbreaks In Broiler Flocks Characterized By Increased Mortality Due To Septicaemia And Endocarditis And/Or Altered Production Parameters Chadfield, Mark, Jens Christensen, Henrik Christensen and Magne Bisgaard	Pathogenicity Of Intestinal Passaged Infectious Bronchitis Virus (IBV) Alvarado, Ivan, Pedro Villegas and Guillermo Zavala	Transcription Of Latent Chicken Infectious Anemia Virus In Chicken Embryos Schat, Karel, Karla Stucker, Myrna Miller and Priscilla O'Conell
2:00 PM	Study Of Safety And Efficacy Of Mycoplasma Gallisepticum TS-11 Vaccine Stipkovits László, Judit Bíró, János Povazsán, László Krösi, János Mészáros and Róbert Glávits	Generating Novel IBV Spike Glycoprotein Genes By A New Technique Termed RNA Shuffling Callison, Scott, Mark Jackwood and Deborah Hilt	Reed Rumsey Award Chicken Infectious Anemia Virus Promoter Response In Cultured Cells Of The Female Reproductive Tract Miller, Myrna and Karel Schat
2:15 PM	Isolation And Characterization Of A 6/85-Like Mycoplasma Gallisepticum From Commercial Laying Hens Steinlage, Sara, Naola Ferguson, Jean Sander, Maricarmen Garcia, S. Subramanian, Victoria Leiting and Stanley Kleven	Infectious Bronchitis Virus (IBV) Protein Functions Studied Using Recombinant IBV's Cavanagh, Dave, Rosa Casais, Brian Dove, Teri Hodgson, Sharon Evans and Paul Britton	Characterization And Comparison Of Chicken Anemia Virus (CAV) Types From Different Ages In Commercial Broilers Sommer, Franz, Carol Cardona and Bruce Charlton
	Break	Break	Break
	2:30 PM – 3:00PM	2:30 PM – 3:00PM	2:30 PM – 3:00PM
	Moderator: Stanley Kleven	Moderator: John Maurer	Moderator: Tami Kelly
3:00 PM	Keynote Speaker #3 – John Smith New Concepts of Management and Disease Control in Poultry		
3:45 PM	Further Studies Of Mycoplasma Gallisepticum Isolate K5054 As A Vaccine In Poultry Ferguson, Naola, Victoria Leiting and Stanley Kleven	Factors Affecting Epidemiology Of Antibiotic-Resistant Campylobacter Jejuni And Campylobacter Coli Idris, Umelaalim, Jingrang Lu, Margie Lee, Susan Sanchez, Charles Hofacre and John Maurer	What Is Your Diagnosis For Hatch Loss? Stayer, Philip
4:00 PM	Aerosol-Induced Mycoplasma Synoviae Arthritis: The Synergistic Effect Of Infectious Bronchitis Virus Landman, Wil and Anneke Feberwee	Determination Of The Prevalence Of Campylobacter Spp. On Turkey And Broiler Production Farms In North Carolina McCann, Regan, Jesse Grimes, Sophia Kathariou, Andrea Sinclair, Jean-Pierre Vaillancourt and Michael Wineland	Evaluating Chlorine Dioxide (ClO₂) As A Drinking Water Sanitizer In Young Commercial Turkeys Brundige, Lorrie, Andrea Miles, David Rives and H. John Barnes
4:15 PM	Effect Of Mycoplasma Synoviae Infection On Serologic Response To Newcastle La Sota Vaccine Nascimento, Elmiro, Rita Silva, Marcela Platenik, Virginia Almeida, M. Lucia Barreto and Antonio Correa	Reduction In Campylobacter Spp. Levels In Commercially Processed Carcasses Stern, Norman and Michael Robach	Effect Of Treated Waste Water On Performance And Health Status Of Broilers Hassanain, Mohey
4:30 PM	The Use Of MGC2-PCR-RFLP For Rapid Differentiation Between Mycoplasma Gallisepticum Field And Vaccine Strains Levisohn, Sharon, Inna Lysnyansky, Stanley Kleven and Maricarmen Garcia	Campylobacter Jejuni Prevalence In Commercial And Organic Poultry Operations Luangtongkum, Taradon, Teresa Morishita and Qijing Zhang	A Novel Approach To Foot Dipping Owen, Robert and John Lawlor
4:45 PM	In Vivo Characterization Of A Glycoprotein C Mutant Of Infectious Laryngotracheitis Virus Keeler, Calvin, W. Schnitzlein, A. Shaffer and D. Tripathy	Darkling Beetles As A Reservoir For Campylobacter In New Zealand Poultry Flocks Bates, Carol, Norman Stern and Kelli Hielt	A New Animal Welfare Approach Inducing Molting In Commercial Layers And Maintaining Immune Responses To Fimbriae Of Salmonella Enteritidis By Ad Libitum Ervil Diet Bianu, Elizabeth, Elie Barbour, Mohammed Farran, Daoud Haddad and Ghida Banat
5:00 PM	Adjourn	Adjourn	Adjourn

Monday, July 21, 2003 – Morning Program

	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Chuck Hofacre	Moderator: Darko Mitevski	Moderator: Robert Bragg
8:00 AM	Keynote Speaker #4 – A. A. Sami Ahmed Emerging and Endemic Diseases in Developing Countries		
8:45 AM	Farm And Management Variables Linked To Fecal Shedding Of Campylobacter And Salmonella In Niche-Market Poultry Jeffrey, Joan, Brigid McCreagh, Karen Tonooka and Edward Atwill	Distribution, Localization, And Characterization Of The Iro Locus Of Avian Pathogenic Escherichia Coli Dozois, Charles, Ho Young Kang, Annie Brée, Maryvonne Moulin-Schouleur and Roy Curtis III	An Overview Of Ocular Diseases In Poultry Shivaprasad, H. L.
9:00 AM	Case Report: Investigation Of Salmonella Tolerance Failures At Two Broiler Processing Plants Cline, Joel, Susan Lockaby, Sara Rowe-Mortor, Robert Norton and Fred Hoerr	The Contribution To Virulence Of A Plasmid From An Avian Escherichia Coli Skyberg, Jerod, Timothy Johnson, Penelope Gibbs and Lisa Nolan	A Serological Survey Of Wild Helmeted Guineafowl (Numida meleagris) In KwaZulu-Natal Province, South Africa Horner, Roger, Margaret Parker and Charles Ratcliffe
9:15 AM	Detection Of Salmonella Enteritidis In The Environment Of Experimentally Infected Laying Hens By An Electrostatic Air Sampling Device Gast, Richard, Bailey Mitchell and Peter Holt	Sequence Analysis Of A Putative Virulence Region Of A Conjugative R Plasmid In An Avian Escherichia Johnson, Timothy, Shelley Horne, Catherine Gibbings, Jerod Skyberg and Lisa Nolan	Poultry Health In The Pacific Region With, Leslie
9:30 AM	Isolations Of Salmonella Enteritidis And Salmonella Typhimurium From Mice In Poultry Flocks Henzler, David and Jean Guard-Petter	Investigations On The Clonality Of E. Coli Infections In Industrial Poultry Production Christensen, Jens, Mark Chadfield and Magne Bisgaard	Mortality In Minnesota Game Birds Associated With West Nile Virus Infection Ziegler, Andre and Huanguang Lu
9:45 AM	Salmonella Pullorum Isolation From A Georgia Backyard Poultry Operation Kelly, Donna, Louise Dufour-Zavala and W. Douglas Waltman	New Results On Vaccination Of Chickens Against Colibacillosis Of Chickens Cserep, Tibor	Pathology Of West Nile Virus Infection In North American Owls (Family Strigidae) Fitzgerald, Scott, Heather Simmons, Jon Patterson, Matti Kiupel, Sheila Grimes, Jeffrey Massey and Richard Fulton
	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM
	Moderator: Lloyd Spencer		
10:30 AM	Houghton Lecture Marek's Disease Virus Research in the Post-Sequencing Era: New Tools for the Study of Gene Functions and Virus-Host Interactions Vladimir Zelnik		
	AAAP Awards Luncheon 11:30AM – 2:00PM	AAAP Awards Luncheon 11:30 AM – 2:00 PM	AAAP Awards Luncheon 11:30AM – 2:00PM

Monday, July 21, 2003 – Afternoon Program

	Session A – Ballroom 1	Session B – Ballroom 4	Session C – C201
	Moderator: Deoki Tripathy		
2:00 PM	Lasher History Lecture Dr. Peter M. Biggs		
	Break 2:45PM – 3:15PM	Break 2:45PM – 3:15PM	Break 2:45PM – 3:15PM
	Moderator: Spangler Klopp	Moderator: Andre Ziegler	Moderator: Teresa Morishita
3:15 PM	Keynote Speaker #5 – Mo Saif Enteric Diseases of Poultry (Viral)		
4:00 PM	Evaluation Of Twelve Stabilizers In A Developed Attenuated Salmonella Enteritidis Vaccine Barbour, Elie, Afif Abdelnour, Farris Jirjis, Obied Faroon and Mohammed Farran	Assessment Of The Efficacy of Fluoroquinolones And Other Antimicrobials Against Respiratory Colibacillosis And Septicemia In Chickens Under Standardized Challenge Conditions Froyman, Robrecht and Jane Cooper	Immunological Significance Of Plasma Cell, Russel Bodies And Secretory Products In The Harderian Gland Of White Leghorn Birds – A Histological And Ultrastructural Study Ramkrishna, Vishveswara and Ashok Pawar
4:15 PM	A Case Study Of Salmonella Vaccination In Broilers Kelly, Tami	Progeny Challenge Studies Assessing The Protection Afforded Against Inclusion Body Hepatitis Field Isolates By An Inactivated Avian Adenovirus Vaccine El-Attrache, John, Pedro Villegas, Gregorio Rosales and Eric Jensen	Stimulation Of The Innate Immune System Of Broiler Chicks With DNA Oligonucleotides Containing CpG Motifs (CpG DNA) Against A Lethal Challenge Of E. Coli Gomis, Susantha, Lorne Babiuk, Tannis Thrush, Edwin Waters, Rolf Hecker, Brenda Allan and Andrew Potter
4:30 PM	Use Of Random Amplification Of Polymorphic DNA For Molecular Characterization Of Salmonella Enterica Serovar Enteritidis Phage Type 4 Strains Lopes, Vanessa, Binu Velayudhan, David Halvorson and Kakambi Nagaraja	Attenuation Of Virulent Fowl Adenovirus Serotype 4 Through Continuous Passage On QT-35 Cells Hess, Michael, Stefan Mantke, Christine Prusas and Hafez Hafez	Effects Of High Dietary Vitamin E Supplementation On The Immune System Of Young Turkey Poults Heffels-Redmann, Ursula, Thomas Redmann, Christian Menge, Ulrich Eskens, Silke Rautenschlein and Klaus Lange
4:45 PM	Molecular Epidemiology Of Salmonella On Poultry Farms In NE Georgia Liljebjelke, Karen, Charles Hofacre, Tongrui Liu and John Maurer	Inclusion Body Hepatitis: Efficacy Of Adenovirus Vaccines To Induce Antibody Response In Chickens Villegas, Pedro, John El-Attrache, Gregorio Rosales and Eric Jensen	The Value Of Vitamin C Supplementation In Broilers Raised Under Heat Stress And/Or Coccidia Infection Alawy, Ahmed El-Bassiouny, Sayed Hegazy, Amira Iskander and Ghada E-Gobary
5:00 PM	Adjourn	Adjourn	Adjourn

Tuesday, July 22, 2003 – Morning Program

	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Trevor Bagust		
8:00 AM	Keynote Speaker #6 – Jagdev Sharma Immunity and Immunosuppressive Diseases of Poultry		
8:40 AM	Keynote Speaker #7 – Paul McMullin Food Safety and Other Contemporary Industry Concerns (Antibiotic Resistance, Animal Welfare)		
9:20 AM	Keynote Speaker #8 – John Maurer Food Safety and Other Contemporary Industry Concerns (Antibiotic Resistance)		
	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM
10:30 AM	AAAP Business Meeting 10:30AM - 12:00Noon		
	Lunch 12:00 Noon - 1:00 PM	Lunch 12:00 Noon - 1:00 PM	Lunch 12:00 Noon - 1:00 PM

Tuesday, July 22, 2003 – Afternoon Program			
	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Joe Giambrone	Moderator: Dan Karunakaran	Moderator: Fred Hoerr
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 Robibson
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 Froyman
	Break 2:30 PM – 3:00PM	Break 2:30 PM – 3:00PM	Break 2:30 PM – 3:00PM
	Moderator: Mo Saif	Moderator: Pedro Villegas	Moderator: Steve Fitz-Coy
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 Mortimer, 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 Sharma
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 Steegh, 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, Ian 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		

Wednesday, July 23, 2003 – Morning Program

	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Guillermo Zavalla	Moderator: David Suarez	Moderator: Greg Mathis
8:00 AM	Keynote Speaker #10 – Kirk Klasing Developmental, Nutritional, and Metabolic Diseases of Poultry		
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 Senne, Peter Woolcock and Bruce Seal	Gene Expression Profiling To Study 12 Cytokine Production After Eimeria Infection Lillehoj, Hyun, Wongi Min, Hunter Beard, Nadim Alkharouf and Benjamin Matthews
9:00 AM	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	Flock-Level Prevalence And Risk Factors Of Coccidiosis In Broiler Chicken Farms In Jordan Abo-Shehada, Mahmoud, Mohammad Al-Natour and Rami Gharabat
9:15 AM	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	Eimeria Maxima: An Epidemiological Evaluation Of The Antigenic Properties Of Several Field Isolates Fitz-Coy, Steve, Richard Phillips, Wei Jia, Terri Wasmoen and Deborah Higuchi
9:30 AM	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) Lvov, Dmitri, Svetlana Yamnikova, Taras Aliper, Eugene Nepoklonov, David Suarez and David Swayne	The Impact Of Coccivac-B Antigenic Capabilities When Used Concurrently With Roxarsone Or Salinomycin Davis, Stephen, John Radu, Steve Fitz-Coy and Richard Phillips
9:45 AM	Pathogenicity Of A Molecular Clone Of A Field Strain Of Subgroup J Avian Leukosis Virus Lupiani, Blanca, 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	Vaccination Of Broilers With An Experimental Live Attenuated Coccidiosis Vaccine McDougald, Larry and Lorraine Fuller
	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM	Break 10:00 AM – 10:30AM
	Moderator: Aly Fadly	Moderator: Patricia Wakenell	Moderator: Larry McDougald
10:30 AM	Keynote Speaker #11 – David Chapman Enteric Diseases of Poultry (Protozoal)		
11:15 AM	Polymerase Chain Reactions For Detection Of Fowl Poxvirus (FPV) And Reticuloendotheliosis Virus (REV) In Field Samples As Well As Detection Of Integrated REV In FPV Genome Luschow, Dorte and Hafez Hafez	The Effect 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	Examination Of The Restoration Of Sensitivity To Clinacox By Using Coccivac B Mathis, Greg and Charlie Broussard
11:30 AM	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	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
11:45 AM	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	Evaluation Of A Natural Anticoccidial (Cocci-Guard) In Broilers Icochea, Eliana, Pablo Reyna, Monica Alba, Alberto Crespo and Alfredo Codemarin
	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

	Session A – Ballroom 1	Session B – Ballroom 4	Session C – Room C201
	Moderator: Richard Witter	Moderator: Peter Woolcock	Moderator: Mariano Salem
1:00 PM	Keynote Speaker #12 – Richard Witter Neoplastic Diseases of Poultry		
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 Kinde, Hailu, J. Odani, F. Uzal, J. Moore, B. Daft, D. Read, B. Barr, P. Blanchard, B. Charlton, A. Ardans, H. Shivasprasad, R. Chin, M. Rezvani, M. McFarland, S. Hietala, F. Sommers, D. Zellner, R. Moeller, M. Anderson, L. Woods, P. Pesavanto, and P. Woolcock	The Effect Of Dietary Lysine Deficiency On The Immune Function Of Chickens Sander, Jean, Chieh-Fu Chen, I-Hsin 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 Kross-Landsman, Imke, Mark Koolen, Paul Sondermeijer and Teshome Mebatsion	Reproductive Potential In Female And Male Domestic Fowl Exposed To Lead Acetate Eltohamy, Magnda
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 Kross-Landsman	Proteomics: Investigating The Molecular Basis Of Normal And Pathological Avian Physiology Burgess, Shane
	Break 2:30 PM – 3:00PM	Break 2:30 PM – 3:00PM	Break 2:30 PM – 3:00PM
	Moderator: Richard Witter	Moderator: Peter Woolcock	Moderator: Mariano Salem
3:00 PM	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 Grosse, Michael Martin, Donald Link and Patricia Wakenell	Clostridial Enteritis In Mature Broiler Breeders Van Sambeek, Francene, Fred Hoerr and Susan Lockaby
3:15 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 Doornbal, Carolien Flemming and Jaap Wagenaar	<i>Reed Rumsey Award</i> Development Of A Novel DNA Vaccine Against Newcastle Disease Virus Moura, Lenita and Vikram Vakharia	Chondrocyte Maturation In Thiram-Induced Tibial Dyschondroplasia In Poultry Rath, Narayan, Janice Balog, William Huff and Geraldine Huff
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	Avulsion Of The Tibial Crest A Cause Of Lameness And Leg Hemorrhage In Turkey Breeder Candidates Hoerr, Frederic, Charles Corsiglia and G. Yan Ghazikhanian
3:45 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	Multiblending Formulation "Siformu-Opt" For Maximum Profit Using Energy, Protein, Digestible Methionine And Lysine In Broilers Ortega, Jose, Ariel Ortiz, Ernesto Avila and Mariano Gonzalez
4:00 PM	Closing - AVMA, AAAP, WVPA		
4:45 PM	ADJOURN		

Poster Session I
Sunday, July 20 – Monday, July 21, 2003
Ballroom 2&3

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 Anatipestier-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
181. **Investigation On The Clonality Of Streptococcus Gallinaceus Isolated From An Outbreak Of Septicaemia Associated With A High Prevalence Of Endocarditis In A Flock Of Broiler Parents**
Chadfield, Mark, Jens Christensen, Henrik Christensen and Magne Bisgaard

Chick Anemia Virus

16. **Detection Of Chicken Anemia Virus In The Gonads And Vertical Transmission To The Progeny Of Broiler Breeder Hens With High Neutralizing Antibody Titers**
Brentano, Liana, Simaia Lazzarin, Simone Bassi, Tania Klein and Karel Schat
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**
Hussein, H.A., M. M. Youssef, E. A. El-Ibiary, A. Atman and M. A. Shalaby
20. **Characterization Of Chicken Infectious Anemia Outbreaks In Slovenia**
Krapez, Uros, 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 Paganelli, 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 Laryngotracheitis Virus (ILT) 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 Psittacine Beak And Feather Disease Virus From Different Psittacine Birds**
Bragg, Robert, Kulsum Tajbhai 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 Reponse 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 Echinace 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 Baggha, 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 Locy, 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**

Picault, Jean-Paul, Josiane Lamande, Chantal Allee, Yannick Morin and Sylvain Comte

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, Zhaoqing He, Chunming Yu, Li Zhang, Xiaoyu Feng and Ning Li
65. **Diagnosis Of Avian Leukosis Virus Subgroup J In Commercial Egg-Type Chickens In China**
Xu, Binrui, Weixing Dong, Zhaoqing He, Yanli Lv, Chunming Yu, Lucy Lee and Maoxiang Li

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 Interleukin-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 CVI/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-Ryung Jeong
74. **The Description Of Chickens Immune Organs, Cellular Composition, Infected By Pathogenic And Vaccine Strains Fc-126 And VI-988 Viruses Of The Marek's Disease**
Sadovnikov, Nikolay and L. I. Malakhyeva
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

Paramyxovirus

78. **Not Confirmed**

79. **Immunogenicity And Safety Of A New Viscerotropic ND-Vaccine**
Adene, Daniel, Omolade Oladele, Stephen Akpavie and Tunde Lawal
80. **Withdrawn**
81. **Efficacy Comparison Of Genotype VII, IX And II Vaccine Of Newcastle Disease**
Cao, Dianjun, Lihui Yan, Peixin Liu, Jianhong Sun, Lujiang 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**
Horner, Roger, Margaret Parker, Raina Maharaj, Leonard Mogoje, Oriel Thekiso, Celia Abolnik and Shahn Bisschop
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**
Kelemen, Maria, Balazs Toth and Erzsebet Saghy
85. **Study On Biological Property Of PPMV-JS And Sequencing-Homology Analysis Of Partial Fusion Protein**
Li, Gang, Zhenxiang Lu, Zhongqing Wu, Wie Sun, Jingping Zhou, Deming Zhang and Puyan Chen
86. **Field Vaccination Trials With Malaysian Thermostable Newcastle Disease Vaccine (NDV4) In Village Chickens In Kaduna State, Nigeria**
Nwanta, John, Umoh Jalath, Abdu Audu and Ajogi I.
87. **Pathogenesis Of Various Strains Of Newcastle Disease Virus In Embryos, Using In Situ Hybridization And Immunohistochemistry**
Oldoni, Ivomar, Corrie Brown, Daniel King and Bruce Seal
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**
Sun, Jianhong, Dianjun Cao, Peixin Liu, Lihui Yan, Jie Chen, Xiangang Kong and Baoquan Liu
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**
Wise, Mark, Erica Spackman, Daniel King, David Suarez and Bruce Seal

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**
Delogu, Mauro, Maria De Marco, Elena Catelli, Mattia Cecchinato, Luigi Ruffoni, Patrizia Pesente and Carlo Franciosi
95. **Avian Pneumovirus (APV) And Its Persistence In Poultry**
Nagaraja, Kakambi, Binu Velayudhan, Vanessa Lopes and David Halvorson
96. **Assessment Of RT-PCR And IIF To Detect Avian Pneumovirus (A, B and C) In Experimentally Infected Chickens**
Pages-Mante, Albert, Narcis Saubi, Alberto Moreno and Enric Espuna
97. **Withdrawn**
98. **Fusion Gene Mutants Of Avian Pneumovirus (APV) And Their Cytopathic Effects In Vero Cells**
Velayudhan, Binu Vanessa Lopes, David Halvorson and Kakambi Nagaraja

Processing

99. **Reducing DOA's At Processing Plants**
Gustin, Scott and Charles Hofacre
100. **Transport Mortality, Condemnation Rate And Pathological Findings In Broilers In Two Swiss Processing Plants**
Hoop, Richard
101. **Investigation Of Liver Hepathopathy In Broiler Chickens Associated With Preharvest Feed Withdrawal**
Trampel, Darrell, Dong Ahn and Jerry Sell

Salmonella

102. **The Effect Of Ascorbic Acid On Egg Contamination, Fecal Shedding, And Heterophil Bacterial Killing During Salmonella Enteritidis**
Andreasen, Claire, Dagmar Frank and Joann Kinyon
103. **Isolation And Characterization Of Salmonella Enterica From Layer Farms In Macedonia**
Bauerfeind, Rolf, Risto Prodanov, Stefanie Barth, Wolfgang Rabsch and Darko Mitevski
104. **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
105. **Genetic And Phenotypic Characterization Of Salmonella Arizonae Isolated From Turkeys**
Crespo, Rocio, Joan Jeffrey, H. L. Shivaprasad, Richard Chin and Gabriel Senties-Cue
106. **Prolonged Bacteremia, Modified Genital Tract Infection And Reduction Of Egg Contamination By A Type 1 Fimbriae Mutant of Salmonella Enteritidis**
De Buck, Jeroen, Filip Van Immerseel, Freddy Haesebrouck and Richard Ducatelle
107. **Protection Of Laying Hens Against Salmonella Enteritidis By Feed Supplementation With Tea Extracts, Guar Bean Fibers And Iodination Of The Drinking Water**
De Buck, Jeroen, Filip Van Immerseel, Freddy Haesebrouck and Richard Ducatelle
108. **Salmonella Control In The Netherlands**
de Vries, Tjep
109. **"In Vivo" Properties Of Lytic Bacteriophages Isolates In Salmonella Enteritidis Infected And Uninfected SPF Chickens**
Fiorentin, Laurimar, Nilson Vieira and Waldomiro Barioni, Jr.
110. **Effect Of Ochratoxin A and S. Gallinarum Infection On Pathological Changes In Broiler Chicks**
Gupta, Sanjeev, Naresh Jindal, Raj Khokhar, Rajesh Asrani, David Ledoux and George Rottinghaus
111. **Growth Response And Biochemical Alterations In Broiler Chicks Fed Ochratoxin A And Inoculated With Salmonella Gallinaru**
Gupta, Sanjeev, Naresh Jindal, Raj Khokhar, S. Gupta, David Ledoux and George Rottinghaus
112. **Effects Of Co-Infection with Salmonella Typhimurium And S. Enteritidis On Course Of S. Enteritidis Infection During Induced Molt**
Holt, Peter and Richard Gast
113. **Antigen-Specific Lymphocyte Proliferation, Interleukin-6 (IL-6) And IL-2 Production In Chickens Immunized With Outer Membrane Protein Of Salmonella Enteritidis**
Lillehoj, Hyun, Masashi Okamura, Richard Raybourne, Uma Babu and Robert Heckert
114. **The Effect Of A Novel Salmonella Subunit Vaccine On Intestinal Salmonella Shedding In Breeder Turkeys**
Lippert, Ron and James Sandstrom
115. **Application Of Multiplex And RFLP PCR Towards The Rapid Identification Of Salmonella Serotypes Isolated From Poultry And The Poultry Environment**
Liu, Tongrui, Yang Hong, Christine Lobsinger, Charles Hofacre and John Maurer
116. **Beta-Glucan Supplemented Feed Decreases Salmonella Enteritidis Organ Invasion In Immature Chicks**
Lowry, Virginia, Pamela Ferro, Christinia Swaggerty, Arun Bahl and Michael Kogut
117. **Some Epidemiological Findings On Fowl Typhoid In Broiler Chicks In Parts Of Haryana, India**
Mahajan, Nand, Naresh Jindal, Suresh Kumar and Raj Khokhar
118. **The Recovery Of Salmonella Species From Wild Birds In Great Britain Between 1995 and 2002**
Pennycott, Thomas, Alastair Park and Henry Mather

119. **Response To A Combined Salmonella Enteritidis And Ascaridia Galli Infection In Two Different Chicken Breeds**
Permin, Anders, Nicoline Eigaard, Helle Juul-Madsen, Mark Chadfield, Jens Christensen, Torben Schou and Francesca Ambrosini
120. **Differences In Susceptibility To Infections With Salmonella Enteritidis And Pasteurella Multocida Between Indigenous And Commercial Chicken Breeds**
Schou, Torben, Anders Permin and Jens Christensen
121. **Poultry Farm Prevalence Of Salmonella In North Carolina**
Sinclair, Andrea, Jean-Pierre Vaillancourt, Michael Wineland, Jesse Grimes, Sophia Kathariou, Elliot Ryser and Regan McCann
122. **The Effect Of A Novel Salmonella Subunit Vaccine in Chickens Challenged With Salmonella Enteritidis**
Straub, Darren and Daryll Emery
123. **Butyric Acid Impregnated In Microbeads, As A Feed Additive, Protects Chickens Against Salmonella Enteritidis Colonization**
Van Immerseel, Filip, Veerle Fievez, Frank Pasmans, Jeroen De Buck, Freddy Haesebrouck and Richard Ducatelle
124. **Behavior Of The Dextro-Rotatory Tartrate Positive Variant Of Salmonella ParatyphiB, A New Emerging Pathogen In Western Europe, In In Vitro And In Vivo Models**
Van Immerseel, Filip, Lieve Meulemans, Jeroen De Buck, Frank Pasmans, Freddy Haesebrouck and Richard Ducatelle
125. **Early Protection Against Salmonella Enteritidis After Vaccination With A Live Strain Is Abolished By Depletion Of The Heterophilic Granulocytes**
Van Immerseel, Filip, Lieve Meulemans, Jeroen De Buck, Frank Pasmans, Freddy Haesebrouck and Richard Ducatelle
126. **Comparison Of 4 Plating Media For The Isolation Of Salmonella From Poultry Clinical And Environmental Samples**
Waltman, Doug

Poster Session II
Tuesday, July 22 – Wednesday, July 23, 2003
Ballroom 2&3

Antibiotic Use/Resistance/Sensitivity

127. **Construction Of Expression-Vector With Non-Antibiotic Selection Marker And Expression Of SO7 Gene Of E. Tenella In Intergrowth Lactobacillus Acidophilus**
Chun-feng, Wang, Sun Zhe, Qin Ze-rong and Liu Shang-gao
128. **Inhibition Of R-Plasmid Transfer By Ionophore And Chlortetracycline In Gram Negative Bacteria**
Clark, Steven, Jeremy Mathers, Paul Tillman, Dennis Hausmann, Valerie Benning and Shelly Gordon
129. **Growth And Immunity Parameters Of Broilers On AGP And Bio-Mos Shuttle Program**
Cotter, Paul, Michael Sims and Ted Sefton
130. **Antibiotic Sensitivity Screening Of Campylobacter May Be Affected By Primary Isolation Media Selective Pressure**
Idris, Umelaalim, Margie Le and Randy Singer
131. **Performance Of Broilers Grown With Growth Promotant Antibiotics Compared With Feeding Programs Containing Bio-Mos in Various Phases of Growout**
McElroy, Audery and Ted Sefton
132. **Not Confirmed**
133. **Efficiency Test And Application On Poultry And Livestock's Additive BFA**
Zuyi, Ren, Xinhao Lu, Hong Liu, Mengdai Zhu and Guodong Wu

Avian Encephalomyelitis

134. **Withdrawn**
135. **Withdrawn**

Avian Influenza

136. **Utilization Of A Quantitative Risk Assessment Framework To Estimate The Spread And Impact Of An Outbreak Of Highly Pathogenic Avian Influenza In Georgia**
Cole, Dana, Lee Myers, David Suarez, Charles Hofacre, Corrie Brown and Jeff Mahany
137. **Sequence Analysis Of Low Pathogenic And Highly Pathogenic H7N1 Avian Influenza Viruses Isolated In Italy In 1999-2000**
Di Trani, Livia, Maria Tollis, Barbara Bedini, Paolo Cordioli, Anna Moreno, Isabella Donatelli and Laura Campitelli
138. **Not Confirmed**
139. **Generation Of Marker Vaccine For Avian Influenza Using Reverse Genetics**
Lee, Chang-Won and David Suarez
140. **Surveillance For Avian Influenza In Poland**
Minta, Zenon, Grzegorz Tomczyk, Krzysztof Smietanka and Barbara Bartnicka
141. **A LPAI Virus (H9N2) With HPAI Virus Behavior In Broiler And Breeder Flocks Due To The Co-Infection With Other Respiratory Virus**
Mirsalimi, Seyed
142. **Detection Of Avian Influenza Virus In Oil Emulsion Vaccines By Real-Time RT-PCR**
Spackman, Erica and David Suarez
143. **The Susceptibility Of The Chickens To Avian Influenza Viruses Isolated From Ducks And Ostrich**
Wang, Chuanqing, Xia Gong, Hongying Liu, Junxing Yang, Heping Huangpu, Jun Luo and Hongtao Chang
144. **Evaluation Of Commercial Immunoassay Kits For The Detection Of Influenza Virus Type A In Poultry**
Woolcock, Peter and Carol Cardona

Campylobacter

145. **Characterization Of Two Variants Of Campylobacter Jejuni NCTC11168**
Allan, Brenda, Christine Szymanski, Ed Taboada, Kingsley Amoako, Susantha Gomis, Rachel Verhulp and Monica Lu
146. **Co-Infection Of Multiple Campylobacter Strains In Turkeys And Their Effects On Meaningful Sample Collection**
Carver, Donna, Sophia Kathariou and Lee Shepherd
147. **Experimental Campylobacter Jejuni Infection In Young Broiler Chicken**
Dhillon, A. Singh, Lloyd Lauerman and H. L. Shivaprasad
148. **Phenotypical And Genotypical Campylobacter Jejuni Prevalence In Poultry Breedings Of Southern Italy**
Di Modugno, Girolama, Antonio Camarda, Antonio Parisi, Donatella Di Modugno, Donato Pennelli and Cosimo Montagna
149. **Efficacy Of Antibiotics In Semen Diluents On Wildtype Campylobacters Or C. Jejuni In Turkey Semen**
Donoghue, Dan, Pam Blore, Naida Loskutoff and Ann Donoghue
150. **Multiplex Polymerase Chain Reaction To Detect And Differentiate Campylobacter, Arcobacter And Helicobacter**
Neubauer, Claudia and Michael Hess

Ducks And Geese

151. **New Gosling Viral Enteritis First Observed In China**
Chun, Cheng, Wang Ming Shu, Zhou Yi, Chen Xiao Yue, Guo Yu Fei, Fang Pen Fang, and Liu Zhao Yu
152. **Morphogenesis Of Gosling New Type Viral Enteritis Virus (NGEV) And Ultrastructural Changes Of Gosling Be Infected Artificially**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
153. **Pathological Studies On Experimental New Gosling Viral Enteritis**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
154. **Studies And Application On The High Immuned Serum Against Gosling New Type Viral Enteritis**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
155. **Studies On The Growth Of Attenuated Vaccine Strain Of Gosling New Type Viral Enteritis And Characteristic**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
156. **Studies On The Method Of Virus Be Purified And Nucleic Acid Strandedness And Structural Proteins Of Gosling New Type Viral Enteritis Virus**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
157. **Studies On The Rule Of The Rise And Fall Of Antibodies Against Gosling New Type Viral Enteritis And Relationship Of Antibody Titers With Goslings Be Protected From Parents Be Vaccinated Viral Enteritis Virus**
Chun, Cheng, Wang Ming Shu, Chen Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
158. **Study On A Dot Immunogold Staining (IGS) For Detection Of The Gosling New Type Viral Enteritis (NGVE) Antibody**
Chun, Cheng, Wang Ming Shu, Chwn Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
159. **Study On The Agar Gel Precipitin Test To Detect Antigen and Antibody Of The Gosling New Type Viral Enteritis**
Chun, Cheng, Wang Ming Shu, Chwn Xiao Yue, Zhou Yi, Guo Yu Fei, Zhu de Kang and Huang Cheng
160. **Goose Hemorrhagic Polyomavirus, Associated To Hemorrhagic Nephritis Enteritis Of Geese (HNEG): From The Identification Of The Virus To The Vaccine**
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161. **A Field Survey Of Chlamydia Psittaci Infections In French Ducks**
Guerin, Jean-Luc, Benoit Sraka and Olivier Costedoat
162. **Withdrawn**
163. **Not Confirmed**
164. **A New Kind Of Virus Disease Of Muscovy Duck - - "Flower Liver" Disease**
Li, Liu Hui, Zhou Zhong Qing and Li Zhen
165. **Cross-Protection Study In Muscovy Ducks Using Goose And Duck Parvovirus Antigens**
Palya, Vilmos, Anna Zolnai, Timea Tatar-Kis, Tibor Horvath and Janos Benyeda

166. **Sequencing And Phylogenetic Analysis Of A Muscovy Duck Parvovirus Isolated In Pennsylvania**
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167. **Genetic Analysis Of A Non-Serotype 1 Duck Hepatitis Virus**
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168. **Diseases And Lesions Of The Urinary System**
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169. **An Evaluation Of In-House Composting Of Catastrophic Poultry Mortalities**
Tablante, Nathaniel, Lewis E. Carr and George Malone

170. **Effect Of Removal Of Third And Splenic Lobes Of Pancreas In Broilers**
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171. **Poultry Health Management School: Continuing Education For The Avian Health Professional**
Morishita, Teresa, Meredith Davis, Robert Porter, Jr., Richard Fulton, Todd Applegate and Ralph Stonerock

172. **The Evaluation Of Biosecurity Of Large Scale Composting**
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173. **Organochlorine Pesticide Residues In Indian Chicken And Eggs**
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174. **Turkey Disease Trends In California, 1989-2001**
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175. **Dysplastic and Neoplastic Lesions Of The Thyroid Gland In Puerto Rican Parrots (Amazona Vittata)**
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176. **A Survey On The Location And Health Status Of Backyard Poultry Flocks On The Delmarva Peninsula**
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177. **Acute-Phase Serum Amyloid – A Production By Chicken Synovial Fibroblasts**
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178. **A Multimedia Biosecurity Training Program**
Vaillancourt, Jean-Pierre, Mike Stringham, Gene Lambert and Charles Beard

179. **Virucidal Activity Of Three Commercial Available Disinfectants And Formic Acid As Candidate For A Reference Disinfectant At 20 And 10 °C Using Bovine Enterovirus Type 1 (ECBO Virus), Mammalian Orthoreovirus Type 1 And Bovine Adenovirus Type 1**
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180. **Broiler Breeder Health Report In Georgia**
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Escherichia Coli

181. **Moved to Bacterial, Misc.**

182. **Evaluation Of Avian Escherichia Coli Isolates For Intracellular Macrophage Survival In Vitro and The Yersinia High-Pathogenicity Island (HPI)**
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183. **The Quantitative Expression Of ISS Transcripts**
Horne, Shelley, Catherine Giddings and Lisa Nolan

184. **Identification And Characterization Of A Novel Fimbrial Operon In Avian Pathogenic Escherichia Coli**
Lymberopoulos, Maria and Charles Dozois

185. **Plasmid-Associated Traits Of Avian Escherichia Coli**
Nolan, Lisa, Catherin Giddings, Curt Doetkott, Jerod Skyberg, Timothy Johnson, Jodi Powell and Rebekka Oliver

186. **Identification Of A Novel Siderophore-Independent Iron Transporter In Avian Pathogenic Escherichia Coli**
Sabri, Mourad, Maria Lymberopoulos and Charles Dozois

187. **Evaluation of Tiamulin And Chlortetracycline In Feed In The Control Of CRD In Broilers**
Valks, Martin, Diao Youxiang, Danny Yu and David Burch
188. **Tiamutin And Consumix Plus In Comparison With Other Antimicrobials For The Control Of CRD And E. coli Infections In Broiler Breeders**
Valks, Martin, Diao Youxiang, Qin Yishun, Danny Yu and David Burch
189. **Colibacillosis In Caged Layer Flocks In Belgium: Clinical, Necropsy And Bacterial Findings**
Vandekerchove, Dominique, Peter De Herdt, Hans Laevens, Monita Vereecken, Marc Verlinden, Ria Wyffels and Frank Pasmans
190. **Comparison of Three Adult Challenge Models for Avian Colibacillosis and the Embryo Lethality Assay**
Wooley, Richard and Penelope Gibbs

Infectious Bursal Disease

191. **Not Confirmed**
192. **Withdrawn**
193. **Molecular Characterization Of Field Strains Of Infectious Bursal Disease Virus In The United States And Some Latin American Countries**
Banda, Alejandro, Pedro Villegas and John El-Attrache
194. **Infectious Bursal Disease Virus Variant Strains – Preliminary Survey Results In Canada**
Cerenó, Teresa
195. **The Comparison Of IP And AC-ELISA Tests Used For Detection Of IBDV Antigens**
Domanska, Katarzyna, Barbara Bartnicka, Krzysztof Smietanka and Zenon Minta
196. **Preliminary Characterization Of Polish IBDV Strains By Using RT-PCR Combined with REA**
Domanska, Katarzyna, Krzysztof Smietanka and Zenon Minta
197. **Characterization And Sequence Comparison Of Infectious Bursal Disease Virus Quasispecies**
Jackwood, Daral and Susan Sommer
198. **Effect Of Infectious Bursal Disease On Campylobacter Shedding In Chickens**
Jackwood, Daral, Qijing Zhang and Y.M. Saif
199. **Epidemiological Studies On Infectious Bursal Disease In Broiler Chicks In Haryana, India**
Jindal, Naresh, Nand Mahajan, Suresh Kumar and Raj Khokhar
200. **Withdrawn**
201. **Detection And Identification Of IBDV Strains In The Bursa Of Fabricius Of Experimentally Infected SPF Chickens**
Kabell, Susanne, Mette Kusk, Poul Jorgensen and Kurt Handberg
202. **Immunosuppressive And Pathological Properties Of Infectious Bursal Disease Vaccine ‘Intermediate Plus Strain’ In Broiler Chickens**
Khurana, Sanjay, Narender Mahajan and Kanhya Ahuja
203. **Amino Acid Specific Typing Of Infectious Bursal Disease Virus**
Kusk, Mette, Susanne Kabell, Poul Jorgensen and Kurt Handberg
204. **Protection Of Chickens Against Infectious Bursal Disease Virus By DNA Vaccines**
Kwon, Hyuk Moo, Soo Young Kim, Haan Woo Sung, Son-Il Pak and Jeong Hee Hahn
205. **What Happens To IBD Vaccine When Given In Ovo In The Face Of Maternal Antibodies?**
McCarty, John, Tom Brown and Joe Giambrone
206. **Characterization Of Infectious Bursal Disease Virus Strains By Partial Sequence Analysis Of Both Genome Segments**
Mankoc, Sara, Uros Krapez, Olga Zorman-Rojs, Ivan Toplak, Joze Grom and Darja Barlic-Maganja
207. **Antigenic And Genetic Characterization Of IBDV Strains Isolated In North Italy During The Period 1996-2002**
Moreno Martin, Ana, Giovanni Tosi, Gaelle Rivallan, Nicolas Enterradossi, Antonio Lavazza, Raffaella Ceruti and Luigi Gavazzi
208. **Molecular Characterization Of Colombian Infectious Bursal Disease Virus Determined By Reverse Transcription-Nested Polymerase Chain Reaction/Restriction Fragment Length Polymorphism (RT-Nested-PCR/RFLP)**

Mossos, Nestor, Juan Corredor, erardo Quinones, Olga Alzate, Pedro Villegas and Gustavo Cardenas

209. **A Sequential Haematological Study Of Experimental Infectious Bursal Disease Virus Infection In Chicken, Turkey and Duck**
Oladele, Omolade, Daniel Adene and Adeyinka Aiyedun
210. **Serologic Evidence Of Infectious Bursal Disease Virus Infection In Adult Nigerian Indigenous Ducks**
Oluwayelu, Oladimeji, Emkpe Benjamin, Fagbohun Olusegun and Ohore Godspower
211. **Control Of Infectious Bursal Disease In Broilers By Early (In Ovo And Day-Old) Vaccination**
Palya, Vilmos, Katalin Forgach, Tibor Suveges, Maria Kelemen, Janos Meszaros and Janos Benyeda
212. **Study on Acute Phase Proteins and Lysozyme During Infection With Different Pathotypes of IBDV**
Smietanka, Krzysztof, Beata Mazur-Gonkowska, Zenon Minta and Andrzej Koncicki
213. **Determining Optimum Gumboro Disease Vaccination Time By Chick Weight Rather Than By Age**
Venne, Daniel, Amer Silim and Sylvain Gingras
214. **Molecular Characterization Of VP2 Of vvIBDV Isolated From Immunized Chickens From Henan, China**
Wang, Chuanqing, Hongying Liu, Hongxing Qiao, Mingfu Niu, Hongtao Chang, Junxing Yang and Heping Huangpu
215. **Very Virulent IBDV: Experimental Studies In Vaccinated And Unvaccinated Chickens**
Zuanaze, Marcelo, Hugo Scanavini, Nair Ito, Claudio Miyaji, Sandra Okabayashi, Eduardo Lima and Antonio Correia

Laryngotracheitis

216. **Re-emergence Of Infectious Laryngotracheitis In Poland**
Smietanka, Krzysztof, Zenon Minta, Grzegorz Tomczyk and Wojciech Kozaczynski

Mycoplasma

217. **Mycoplasma Synoviae Infections In Layers**
Bradbury, Janet, Jennifer Hagan and Kenton Morgan
218. **DNA Sequence Analysis For Typing Mycoplasma Synoviae Strains In Poultry**
Hong, Yang, Victoria Leiting, Maricarmen Garcia, Stanley Kleven and Dusan Bencina
219. **Onset Of Immunity With The Mycoplasma Synoviae Vaccine MS-H (Vaxsafe MS, Bioproperties Australia)**
Jones, Jillian, Amir Noormohammadi and Kevin Whithear
220. **Aerosolization Of Mycoplasma Synoviae Compared To M. Gallisepticum And Enterococcus Faecalis**
Landman, Wil, Anneke Feberwee and Jo van Eck
221. **Mycoplasma Gallisepticum Control Programs In The Netherlands And The Use Of A Novel Geographic Information System**
Landman, Wil and Anneke Feberwee
222. **Mycoplasma Gallisepticum Outbreaks In North Carolina, 1999-2001: Lessons Learned From The Tail End Of The Epidemic Curve**
Ley, David, Algis Martinez and Jean-Pierre Vaillancourt
223. **Detection And Identification Of Pathogenic Avian Mycoplasmas In Spanish Commercial Poultry Flocks**
Maldonado, Jaime, Albert Pages and Carlos Artigas
224. **PCR Detection Of Mycoplasma Stored And Transported On FTA Gene Guard Filter Paper**
Moscoso, Hugo, Stephan Thayer, Charles Hofacre and Stanley Kleven
225. **Withdrawn**
226. **Comparison Of Vaccines And Other Mycoplasma Gallisepticum Strains On Seroconversion Of SPF Chickens**
Nascimento, Elmiro, Patricia Polo, Virginia Pereira, Rita Silva, Marcela Platenik, M.Grace Nascimento and Marcelo Zuanaze
227. **Studies On The M. Synoviae Vaccine MS-H In Turkeys**
Noormohammadi, Amir, Nathan Jeffery, Antonio Belfiore and Kevin Whithear
228. **Comparison Of The Efficacy Of Vaxsafe MG TS-11 And 6/85V vaccines**
Noormohammadi, Amir, Greg Underwood and Kevin Whithear
229. **Evaluation Of The Non-Temperature-Sensitive Field Clonal Isolates Of The Mycoplasma Synoviae Vaccine Strain MS-H**

Noormohammadi, Amir, Jillian Jones, Karl Harrigan and Kevin Whithear

230. **Studies On Infertility Of Goose Eggs Associated With Mycoplasma Infection**
Stipkovits, Laszlo, Zoltan Bitay, Anna Simon, Judit Biro and Aniko Beregszaszi
231. **Application Of Method “Polymerase Chain Reaction” For Diagnosis Of Mycoplasma Gallisepticum And Mycoplasma Synoviae**
Tosi, Giovanni, Francesca Paganelli, Laura Fioentini, Paola Massi and Antonio Lavazza
232. **Comparison Of A Tiamulin Medication Program With TS-11 Mycoplasma Vaccine On The Control Of M. Gallisepticum In Broiler Breeders**
Valks, Martin, Nisit Chansong and David Burch

Nutrition

233. **Effect Of Dietary Energy And Protein Levels In Broilers And Its Relation To Environmental Temperature**
Alawy, Ahmed, S. M. Hegazy, Fatma Kamel and Nehad Badrawy
234. **Utilization Of Black Jowar Spent Grains In Broiler Rations As A Protein Source**
Chopde, Shital, Pravin Sarde and Ravindra Dhore
235. **Not Confirmed**
236. **Not Confirmed**

Parasitic Diseases

237. **The Nutritional Effects Of Cochlosoma Anatis Infection In Turkeys And Evaluation Of Control Measures**
Bermudez, Alex and Yvette Broomhead
238. **Pathological And Chromatographical Analysis Of Intoxication With Sodium Salinomycin In Chicken Breeders**
Bianu, Elisabeta, Daniela Nica and Elie Barbour
239. **In Vivo Effects Of CpG-ODN On Eimeria Acervulina-Infected SC and TK Chickens**
Dalloul, Rami, Hyun Lillehoj and Robert Heckert
240. **Pathogenic Plasmodium Juxtancleare Isolate Of Japan**
Isobe, Takashi, Faridah Mashor, Kenji Tsukamoto, Harue Kasuga and Naotoshi Tsujil
241. **Case Report: Efficacy Of Piperzine For The Treatment Of Roundworms In Broiler Chickens**
Magee, Danny and Sue Hubbard
242. **Examination Of Reasons For Field Problems With Eimeria Maxima: Part 2: Acervulina Versus E. Maxima**
Mathis, Greg
243. **An Enzyme-Linked Immunosorbent Assay (ELISA) Using The Recombinant Merozoite Protein As Antigen For Detection Of Antibodies**
Tajima, Osamu, Hiroshi Onaga and Toshihiro Nakamura
244. **Not Confirmed**
245. **Role Of Experimentally Infected Chickens In Transmission Of Isospora Canis Infection**
Zayed, Ahmed and Mohammed Abdel-Aziz Kotkat
246. **Not Confirmed**

Poult Enteritis Mortality Syndrome

247. **Intestinal Cytology Of Young Turkeys With Poultry Enteritis Complex**
Barnes, H. John
248. **Turkey Coronavirus Potentiates Enteropathogenic Escherichia Coli Colonization And Pathogenicity In Young Turkeys**
Guy, James, H. John Barnes, Lynda Smith, David Ley, Jean-Pierre Vaillancourt and Somsak Pakpinyo

Pox

249. **Not Confirmed**

Reo

250. **Phylogenetic Analysis Of Avian Reovirus Field Isolates**
Sellers, Holly, Lorena Pereira and Darrell Kapczynski

Toxins

251. **Not Confirmed**

252. **A Case Of Acute Copper Intoxication In Poultry**
Nica, Daniela and Elisabeta Bianu

253. **Withdrawn**

254. **Not Confirmed**

West Nile Virus

255. **A Survey of West Nile Virus in Avian Species By Reverse Transcription-Nested Polymerase Chain Reaction in Alabama During 2001-2002**
Li, Lanqing, Michael Luther, Frederic Hoerr, Robin Yancey and Ashley Lovell

256. **Case Study – West Nile Virus In Lorikeets**
Luna, Lynne