

**71st Western Poultry Disease Conference (April 4 - 6, 2022)
(Scientific Program)**

MONDAY - April 4, 2022

6:45	Registration and Continental Breakfast			
7:50	Simone Stoute	Program Chair Welcome; Opening Remarks		
	SESSION I: Virology MODERATOR: Ana Da Silva		SESSION II: Bacteriology MODERATOR: Iresha Subhasinghe	
8:00	<i>Invited Speaker, Dr. Gregg Cutler: Impact of cage free layer systems on production and diseases in commercial layers</i>			
8:45	Rodrigo Gallardo	The role of IBV on reproductive impairment in roosters	James Byrd II	Understanding <i>Salmonella</i> and how to control it
9:00	Mohamed Hassan*	Pathogenicity of the Canadian Delmarva (DMV/1639) strain of infectious bronchitis virus (IBV) for laying hens	Scott Gustin	Emerging bacterial diseases in modern broiler production
9:15	Safieh Vatandour*	Elucidating the induced antiviral responses in chickens following the infection with two different strains of infectious bronchitis virus (IBV)	Timothy Johnson	Re-defining the avian pathogenic <i>Escherichia coli</i> (APEC) pathotype in commercial turkey production
9:30	Charlie Amoia*	Genetic diversity of Newcastle disease virus in backyard poultry farms in Tanzania	Meaghan Young*	Identification of novel avian pathogenic <i>Escherichia coli</i> biofilm formation genes
9:45	BREAK: 9:45 AM - 10:15 AM			
	Session I: Antimicrobials and Bacteriology MODERATOR: Brock Riggs		Session I: Case Reports MODERATOR: Hemlata Gautam	
10:15	Agnes Agunos	Current status of antimicrobial use, antimicrobial resistance and flock health in Canadian poultry	Vijay Durairaj	Isolation of <i>Histomonas meleagridis</i> and <i>Pentatrichomonas hominis</i> in an enterohepatitis outbreak in turkeys
10:30	Yu-Yang Tsai*	Focal Duodenal Necrosis: identification of Gram-negative bacteria potential role in intestinal lesions	Gunnar Dunnam*	An emerging <i>Enterococcus cecorum</i> outbreak in a broiler integrator in the Southern US: Analysis of antimicrobial resistance trends
10:45	Ana Da Silva	Infectious coryza: A concerted effort towards a novel classification method for <i>Avibacterium paragallinarum</i>	Carmen Jerry	A case of fowl cholera in commercial turkeys
11:00	Aaron Forga*	Immunoprophylaxis against Clostridial cellulitis/dermatitis in commercial turkeys	Arun Kulkarni	Diagnostic investigation of virus etiology from broiler chickens exhibiting bursal atrophy
11:15	Roel Becerra*	<i>Campylobacter hepaticus</i> in the production environment/stagnant water as a potential source of <i>Campylobacter</i> causing spotty liver disease in free range laying hens in Georgia, USA	Kelli Jones	Investigating infectious bronchitis DMV/1639 virus in broiler breeder roosters
11:30			Rachel Thiemann*	A novel presentation of <i>Clostridium perfringens</i> in young broilers
	LUNCH: 11:45 PM - 1:00 PM			
	Session I: Virology MODERATOR: Mark Bland			
1:00	<i>Arnold S. Rosenwald Lecture: Dr. Steve Roney, Retrospective Perspectives of a Poultry Veterinarian</i>			
1:45	Tamer Sharafeldin	Role of turkey hepatitis reoviruses in tenosynovitis in turkeys		
2:00	Amine Mernizi*	First seroepidemiological survey of avian metapneumovirus circulation in Moroccan broiler farms		
2:15	Nadine Cariou	Infectious bursal disease vaccine type impacts response to IB vaccination and bursal integrity		

3:30	Kristen Roza-Sutherland	Long-term field protection of a dual insert HVT vectored vaccine (HVT+IBD+ILT) in layer flocks
POSTER VIEWING & BREAK: 2:45 PM - 3:15 PM		
Session I: Viral Vaccines MODERATOR: Patrick Montine		
3:15	Alejandro Banda	Protection induced by IBDV vaccine strains ST-12 and 51A/C4 versus a Delaware E challenge
3:30	Emma Castillo*	Adenovirus progeny protection trial
3:45	Ivan Alvarado	Infectious laryngotracheitis HVT recombinant constructs: replication and efficacy against challenge in broilers
4:00	Milos Markis	Assessment of protection induced by inactivated trivalent variant reovirus vaccine against challenge with contemporary reovirus field isolates
4:15	Kalen Cookson	Broiler protection and performance trials of the newest HVT-IBD recombinant vaccine against AL2 and group-6 IBDV challenges
4:30	WPDC BUSINESS MEETING 4:30-5:15 pm	
6:00	WELCOME RECEPTION - 6:00-7:30pm	

TUESDAY, April 5, 2022			
6:45	Registration and Continental Breakfast		
8:00	Invited Speaker, Dr. Rüdiger Hauck: Diseases affecting the intestinal health of poultry, including coccidiosis and other enteric parasites		
Session I: Parasitology MODERATOR: Carmen Jerry		Session II: Epidemiology MODERATOR: Maurice Pitesky	
8:45	Lisa Bielke	Survey of <i>Eimeria</i> species and anticoccidial resistance in turkeys	Brock Riggs Prevalence and viral ecology of avian influenza in wetlands of high versus low waterfowl use in the Central Valley of California
9:00	Vijay Durairaj	Serological evaluation of turkeys challenged with <i>Histomonas meleagridis</i>	Shayne Ramsubeik* Retrospective analysis of disease caused by pigeon Paramyxovirus-1 in California domestic pigeon population 2010 to 2020
9:15	Greg Mathis	Alternatives for coccidiosis and necrotic enteritis control	Andreia Arruda Epidemiological tools for informing disease risk: the example of infectious bronchitis (IBV)
9:30	Randall Singer	Efficacy of antibiotic and non-antibiotic interventions in preventing and treating necrotic enteritis in broiler chickens: a systematic review	Patrick Montine* Avian reovirus surveillance in poultry farms of the California Central Valley (2012-2020)
9:45	Sydney Kinstler*	<i>Clostridium perfringens</i> and <i>Eimeria maxima</i> co-infection stimulate intestinal stem cell proliferation and differentiation in broiler chickens	Myrna Cadena* Traditional survey-based methods for mapping backyard and game fowl poultry movement in California
POSTER VIEWING & BREAK: 10:00 AM - 10:30 AM **All poster presenters will be available at their posters for discussion**			
Session I: Research, Gut Health, Immunity MODERATOR: Nancy Reimers		Session II: Food Safety, Gut Health, Research MODERATOR: Shelly Popowich	
10:30	John Schleifer	Re-emergence of chondronecrosis with osteomyelitis syndrome in broilers and the effect of dietary probiotics in a <i>Staphylococcus agnetis</i> challenge model	Dulmelis Sandu Using multi-modal feed additives to help manage coccidia challenges and their sequelae in broiler production systems
10:45	Muhammad Saeed	16S ribosomal RNA sequencing reveals a modulation of intestinal microbiome and immune response by dietary L-theanine supplementation in broiler chickens	Iresha Subhasinghe* CpG-ODN-induced antimicrobial immunity involves immuno-metabolic regulation in broiler chickens

11:00	Hemlata Gautam*	Development of a novel vaccine strategy against <i>Clostridium perfringens</i> by synergizing immune-enrichment and immunostimulation in chicks	Jesse Shepherd*	Comparison of commercial layer flock random serum and egg yolk samples in determining ELISA antibody response after vaccination against Newcastle disease, AEV, MG, or IBV
11:15	Ahmed Ali*	Optimization of infectious bronchitis (IB) vaccination strategies against egg production abnormalities	Christine Clark*	Seeder bird research- delveoping the best challenge model
12:00	WPDC AWARDS LUNCHEON: 12:00 PM - 1:30 PM			
	SESSION II: Coccidia Vaccines MODERATOR: Rüdiger Hauck		SESSION II: Research and Epidemiology MODERATOR: Myrna Cadena	
1:45	Brittany Graham	Development of a candidate bioshuttle coccidiosis vaccination program for the turkey industry	Julia McElreath	Development of a rapid method for whole genome sequencing of fowl adenoviruses
2:00	Eng Hong Lee	Coccidiosis vaccines and vaccination of poultry: A proxy for human malaria vaccines	Claire Béra	Colibacillosis in broiler chickens: What is the impact on carcass quality? A retrospective study
2:15	Francisco Rios-Cam	Control of poultry coccidiosis by vaccination in pigmented broilers in Mexico	Joseph Gendreau	Understanding spatio-temporal trends of non-commercial poultry sales in California using online classified advertisement data
2:30	Roy Jacob	Comparison of the field application of a commercial coccidiosis vaccine in broilers with bio-shuttle program	Kevin Amini	Monitoring of a recombinant HVT-IBD-ILT vaccine in the field
2:45	Jose Bruzual	Field experience managing a precocious coccidiosis vaccine in broiler breeders under field conditions in Zimbabwe, South Africa	Peter Groves	Epidemiology of spotty liver disease in layers: starting from scratch
	POSTER VIEWING & BREAK: 3 PM - 3:45 PM			
	Session I: Case Reports MODERATOR: Shanye Ramsubeik		Session II: Research and Diagnostics MODERATOR: Rodrigo Gallardo	
3:45	Jenny Nicholds	Bad Blood: using a modern tool to aid in poultry disease diagnostics	Henry Miller	Analysis and use of, and bacterial resistance to, Linco-Spectin (lincomycin and spectinomycin) in broiler flocks in the East of England between 2014 and 2021
4:00	Eric Gingerich	2021 outbreak of egg drop syndrome in Northern Indiana layers	Ricardo Munoz Saba	Noninvasive protocol to assess eggshell hygiene status using luminometry
4:15	Matthew Drozd	Causes of morbidity and mortality of peafowl & peafowl pheasants at zoological institutions: a retrospective study	H. L. Shivaprasad	Infectious bronchitis virus CA/3099 associated with immunosuppression in broiler chickens in central California
4:30	Mike Petrik	Suspected botulism toxicity in laying hens	Juan Rodriguez-Lecompte	Antimicrobial characterization and microbial induction of chicken ribonuclease angiogenin 4
4:45	Gigi Lin	Histomoniasis outbreaks in commercial turkeys in British Columbia, Canada	Leslie Johnson	Assessment of the impact of an ϵ -polylysine product on hatchability, bacterial loads and 7-day performance in broiler chicks following in-ovo inoculation
WEDNESDAY, April 6, 2020				
6:45	Registration and Continental Breakfast			
	Session I: Virology MODERATOR: Rachel Jude			

8:00					<i>Invited Speaker, Martha Pulido-Landínez: Salmonella infection in Poultry</i>				
8:45	Alexandra Reiley	Fine-tuning of infectious bronchitis vaccination program in layers exposed to DMV1639 strain							
9:00	Daniel Venne	Broiler breeder adenovirus titer monitoring during natural, contamination or contact exposure to a 8b strain of adenovirus							
9:15	Davor Ojkic	Re-emergence of inclusion body hepatitis in Canada							
9:30	Eric Shepherd	Experiences with inclusion body hepatitis in the Southeast United States							
9:45	Francisco Rios-Cambre	Detection of novel infectious bronchitis viruses in layers in Mexico and their control by using a synergic live vaccine combination							
10:00	POSTER VIEWING & BREAK: 10:00 AM - 10:30 AM								
Session I: Research					Session II: Case Reports and Diagnostics				
MODERATOR: Vijay Durairaj					MODERATOR: Simone Stoute				
10:30	Valerie Marcano	Impact of lactic acid bacteria on eggshell quality of molted commercial layers			Emma Castillo	Diagnosing and managing inclusion body hepatitis in broiler breeders			
10:45	Jeffrey Hall	A universal <i>E. coli</i> sub-unit vaccine protects broilers from <i>Escherichia coli</i> 078 challenge			Wendy Witbeck	Evaluation of an avian respiratory panel in a modular PCR system			
11:00	Francisco Rios-Cambre	Presence and distribution of infectious bursal disease viruses belonging to genotypes 2 and 5 in Mexico			Naola Ferguson-Noel	Results and applications of whole genome sequencing of avian mycoplasmas			
11:15	Eric Gingerich	Exploring postbiotic-based strategies for the mitigation of avian pathogenic <i>Escherichia coli</i> in layers			Anita Menconi	Concomitant monitoring of <i>Clostridium perfringens</i> and <i>Eimeria</i> species in fecal samples of conventional and slow-growing broiler flocks by ScreenFlox® multiplex qPCR workflow			
11:30	Rachel Jude	Genomic comparison of DMV-like and QX-like infectious bronchitis virus strains: Is there any relation between gene sequences and tissue tropism?			Sara Throne	That's not supposed to happen after vaccination, right?			
Simone Stoute: Concluding Remarks; Adjourn									

POSTERS

1	Nahla Saeed	Preventing free radical damage: the importance of antioxidants for the immune system of broiler							
2	Charlie Amoia	Newcastle disease virus genotypes circulating in Africa and their determinants of virulence: a systematic review							
3	Carolina Trujillo Peralta	Isolation, speciation, and anticoccidial sensitivity of <i>Eimeria</i> spp. recovered from wild turkey feces							
4	John Hwa Lee	A <i>S. Gallinarium</i> vaccine candidate stain with detoxified lipid A, DIVA capable, and cytotoxic attenuation that still retains immune-competent and highly effective protection against fowl typhoid							
5	Naeem Tahir	Production performance of Hubbard broilers with different stocking densities under hot climatic conditions of Pakistan							
6	Stephanie Lesceu	Influenza pathogens: innovative assays for diagnosis and vaccination monitoring of H5, H7 and H9 avian influenza A virus							
7	Ariaunna Jones	Long-term storage of avian origin primary cells for continued availability in virus research and diagnostic laboratories							
8	Hye-ryoung Kim	Comparative genomics of fowlpox virus isolates of South Korea							
9	Magali Salas	Detection of <i>Salmonella</i> in quail eggs for ambulatory sale in districts of the city of Lima-Peru							
10	Ming-Kun	VP4 of infectious bursal disease virus is required for the formation of virus like particle expressed in <i>E. coli</i>							
11	Suttitas Tongkamsai	Lymphoid depletion caused by subgroup J avian leukosis virus in specific pathogen-free chicks							
12	Manuel Da Costa	Field experience - infectious bronchitis vaccination takes before and after vaccine application and optimization of sampling methodology							
13	Fathima Ishara Muhammadu Isham	Host responses to Delmarva (DMV/1639) IBV variant isolated in Eastern Canada in young chickens							

14	Asnakew Berihun	Seroprevalence and molecular detection of infectious laryngotracheitis in poultry Western Amhara Region State, Ethiopia
15	Mansour Mayahi	Diagnosis of tuberculosis in suspected pigeon by three methods
16	Chantel deBeurs	Administration of oral meloxicam to turkey poults: literature review and proposed investigation