

72nd Virtual North Central Avian Disease Conference

May 18th – 19th, 2021

Tuesday, May 18th
US Central Time

#Key Note Speaker

^Invited Speaker

*Student Competition

**Case Study Competition

Submitted Presentation

8:00 – 8:15 **Introduction and Welcome Address**
*Mohamed El-Gazzar, Program Chair and
Rodger Main, Director of Veterinary Diagnostic Laboratory,
Iowa State University*

Symposium: Genotyping vs Phenotyping

Moderator:

8:15 – 8:45 #**Genotyping and Phenotyping: Distinction and Their
Associations**
Chang-Won Lee, Ohio State University

8:45 – 9:15 ^**Identification of Molecular Determinants that influence
Virulence, Tissue Tropism, Transmission Potential, and
Genetic Diversity of Turkey Reoviruses**
Sunil Mor, University of Minnesota

9:15 – 9:45 ^**Pathotyping and Serotyping of Avian Reoviruses Associated
with Viral Arthritis/Tenosynovitis**
Milos Markis, AviServe LLC

9:45 – 10:15 ^**Genotyping Panel Discussion**
Lee, Mor and Markis

10:15 – 10:30 **Break**

Poultry Virology Session

Moderator:

10:30 – 10:45 ****Reoviral Hepatitis in Young Turkey Poults - An Emerging
Problem**
Rahul Kumar, University of Minnesota

10:45 – 11:00 ***Correlation of histopathologic lesions to RT-PCR Ct values
and investigation of In Situ Diagnostic Assays for Avian
Reovirus**
Cheng-Shun Hsueh, Iowa State University

11:00 – 11:15 ***Recombinant Pichinde virus vectored vaccine against turkey arthritis reovirus and its immunological response characterization in vaccinated turkeys**

Rahul Kumar, University of Minnesota

11:15 – 11:30 **Evaluation of Ivermectin Antiviral Activity Against Avian Infectious Bronchitis Virus (IBV)**

Donald L. Reynolds, University of Nebraska

11:30 – 12:30 **Lunch Break**

Poultry Virology Session II

Moderator:

12:30 – 12:45 ****Inadequate and Late Immunity Against Newcastle Disease in Turkey Flocks**

Saad Gharaibeh, University of Minnesota

12:45 – 1:00 **Re-Emergence of Avian metapneumovirus in Commercial Turkey Flocks**

Elizabeth Beilke, West Liberty Foods, LLC.

1:00 – 1:15 **Evaluation of the safety and efficacy of GUMBOHATCH® vaccine administered *in ovo* on a Belgian farm compared to an intermediate plus drinking water vaccine.**

Joren Verbeke, HIPRA

1:15 – 1:30 **Break**

Poultry Bacteriology Session

Moderator:

1:30 – 1:45 ****An Interesting Case of Caseous Sinusitis in Ring-Necked Pheasants**

Geoffrey Lossie, Purdue University

1:45 – 2:00 ***Development of Core Genome Multilocus Sequence Typing Scheme (cgMLST) for *Ornithobacterium rhinotracheale***

Amro Hashish, Iowa State University

2:00 – 2:15 ***Morbidity and Mortality in Farmed Northern Bobwhite Quail: A Retrospective Study**

Hailey Quercia, Auburn University

2:15 – 2:30 ****Experiences with Spotty Liver Disease Caused by *Campylobacter bilis* in Commercial Laying Hens in the United States**

Kelli Jones, Ceva Animal Health

2:30 – 2:15 ***Immunosuppression led to severe necrotic enteritis imprints
in commercial broiler chickens**
Hemlata Gautam, University of Saskatchewan

2:15 – 2:30 **Break**

Biosecurity Session

Moderator:

2:30 – 3:00 **#Biosecurity Concepts and Approach**
Derald Holtkamp, Iowa State University

3:00 – 3:15 **Incorporating a Non-H5/H7 Low Pathogenic Influenza A
Virus Response into Company Biosecurity and Disease
Response Plans – Ideas and Questions**
Rosemary Marusak, University of Minnesota

3:15 – 3:30 ***The Use of Drone Technologies to Aid in Site Specific
Biosecurity Mapping, Grower Education, and Disease
Outbreak Response**
Caley Ellington, Lincoln Premium Poultry

3:30 – 4:00 **^Foreign Animal Disease Update**
Mia Torchetti, NVSL USDA

4:00 – 4:15 **Poultry Medicine Workshops for Practicing Veterinarians**
Mohamed El-Gazzar, Iowa State University

4:15 – 4:45 **^Biosecurity Panel Discussion**
Holtkamp, Marusak, Torchetti

Wednesday, May 19th

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Layer and Broiler Health Session

Moderator:

- 8:00 – 8:30 **#Recent Developments in Coryza Diagnostics**
J.J. (Sjaak) de Wit, Royal GD, Deventer, University of Utrecht, the Netherlands
- 8:30 – 9:00 **^Infectious Coryza in Pennsylvania**
Sherrill Davison, University of Pennsylvania
- 9:00 – 9:30 **^Infectious Coryza in the West Coast: Persistence, Genotyping and Vaccine Efficacy**
Rodrigo Gallardo, University of California Davis
- 9:30 – 9:45 **Effect of Electrostatic Aspersions of a Novel Silane Quaternary Ammonium Compound (sQAC) on Hatchability and Chick Quality**
Ivan Alvarado, Merck Animal Health
- 9:45 – 10:00 **Siderophore receptor and porin (SRP) protein vaccines against fowl cholera: overcoming the serotype paradox**
Dan Domingo, Vaxxinova US
- 10:00 – 10:15 **Use of Alquernat Coneb (botanical) alone and in combination with coccidiostats in experimentally challenged broilers with different strains of Eimeria**
Júlia Pié, IFTA (USA)

10:15 – 10:30

Break

Turkey Health Session

Moderator:

- 10:30 – 11:00 **^Historical Trends of Turkey Diseases: The Turkey Industry Annual Report**
Steven Clark, Devenish Nutrition, LLC
- 11:00 – 11:15 ****A Clinical Investigation of High Mortality in Turkeys**
Vijay Durairaj, Huvepharma
- 11:15 – 11:30 **Using Machine Learning Based Approaches to Explore Predictions in Poultry Production**
Maurice Pitesky, University of California Davis
- 11:30 – 11:45 **A Perspective on the Role of Turkey *Eimeria* Vaccines and Anti-Coccidials in Today's Industry**
H.M. Abdullah, The Ohio State University

11:45 – 12:00 **Lessons Learned from Pathogenesis Studies of *Histomonas*
meleagridis in Turkeys**
Vijay Durairaj, Huvepharma

12:00 – 12:15 **NCADC Business Meeting**

12:15 – 12:30 **Awards Ceremony**

12:30 **Closing Remarks and Adjourn**