

NC1180 2022 Meeting minutes

Meeting was conducted in the Drury Inn & Suites Atlanta Airport and via Zoom from 5:00 pm to 7:00 pm October 31, 2022, and from 9:30 am to 6:00 pm November 1st, 2022.

See below the Agenda

NC-1180 2022 MEETING AGENDA

Title of the project: Control of Emerging and Re-emerging Poultry Respiratory Diseases in the United States

Dates: October 31st to November 1st.

Location: York Room at Drury Inn & Suites Atlanta Airport

October 31st - 5 pm to 7 pm ET: Station Reports

Meeting ID 92464370360 Passcode 008933

Link <https://zoom.us/j/92464370360?pwd=KONNa3NEVzIMQTR5NHh6dXA3RklzZz09>

- 5:00 to 5:15 Brief Introduction by Chair (Maricarmen García)
- 5:15 to 5:30 University of Georgia (Maricarmen García)
- 5:30 to 5:45 University of Illinois at Urbana-Champaign (Dr. Keith Jarosinski)
- 5:45 to 6:00 South-East Poultry Research Lab USDA Exotic Diseases (Dr. Chang-Won Lee)
- 6:00 to 6:15 University of California, Davis (Dr. Rachel Jude)
- 6:15 to 6:30 University of Connecticut (Dr. Mazhar Khan)
- 6:30 to 6:45
- 6:45 to 7:00

November 1st- 9:30 am to 5 pm ET: Business Meeting and Station Reports

Meeting ID 91733438333 Passcode 840708

Link <https://zoom.us/j/91733438333?pwd=OEZKaUJwL2kzUWRPY0VZTzVvZ2V1Zz09>

Business meeting 9:30 AM to 12:00 PM

- 9:30 to 9:45 **Introduction and approval of 2021 Meeting minutes (Dr. Brian Jordan)
- 9:45 to 10:00 **USDA NIFA Update (Dr. Michelle Colby)
- 10:00 to 10:15 Comments from the administrative Advisor (Dr. Don Reynolds)

Renewal project process dates and deadlines

- 10:15 to 11:00 **Review current project Objectives (Dr. Maricarmen García) Revise Objectives for Renewal Process (Open Discussion)

- 11:00 to 11:15 Establish Renewal Project Writing Committee (Dr. Don Reynolds)
- 11:15 to 11:30 Election for new officers (Dr. Don Reynolds)
- a. Review organization / governance
 - b. Chair
 - c. Secretary
- 11:30 to 12:00 Next meetings
- a. Writing committee meet prior to 2023 NC1180 annual meeting
 - b. 2023 NC1180 annual meeting location
- ** Documents provided electronically
- 12:00 to 2:00 Lunch
- 2:00 to 5:00 Station Reports**
- 2:00 to 2:15 University of Georgia (Dr. Holly Sellers)
- 2:15 to 2:30 Auburn University (Dr. Haroldo Toro)
- 2:30 to 2:45 University of Delaware (Dr. Erin Brannick) (Zoom)
- 2:45 to 3:00 University of Georgia (Dr. Naola Ferguson-Noel)
- 3:00 to 3:15 Iowa State University (Dr. Amro Hashish) (Zoom)
- 3:15 to 3:30 University of Georgia (Dr. Brian Jordan) (Zoom)
- 3:30 to 3:45 University of Maryland (Dr. Andrew Broadbent)
- 3:45 to 4:00 University of Maryland (Dr. Mostafa Ghanem) (Zoom)
- 4:00 to 4:15 University of Minnesota (Dr. Tim Johnson) (Zoom)
- 4:15 to 4:30 University of Nebraska (Dr. Don Reynolds)
- 4:30 to 5:00 Housekeeping items and Closing Remarks by Chair (Maricarmen García)

Minutes Meeting October 31, 2022

Attendees Present at the Drury Inn: Dr. Haroldo Toro (Auburn University), Dr. Mhazar Khan (Univ. of Connecticut), Dr. Keith Jarosinski (Univ. of Illinois) Dr. Rachel Jude (Univ. of California, Davis), Dr. Chan Wong Lee (SEPRL, USDA), Dr. Don Reynolds (Univ. of Nebraska), Dr. Andrew Broadbent (Univ. of Maryland), Dr. Naola Ferguson-Noel (Univ. of Georgia) Dr. Maricarmen García NC-1180 Chair (Univ. of Georgia).

Via Zoom: Dr. Brian Jordan NC-1180 Secretary (Univ. of Georgia), Dr. Rodrigo Gallardo (Univ. California Davis), Dr. Tim Johnson (Univ. of Minnesota), Dr. Mostafa Ghanem (Univ. of Maryland), Dr. Michelle Colby (NIFA, USDA), Dr. Amro Hashish (Univ of Iowa), Dr. Erin Brannick (Univ. of Delaware), Dr. Silvia Carnaccini (Univ. of Georgia).

At 5:00 pm the meeting was started by Dr. García giving a summary of the agenda (see above). Followed this brief introduction we proceeded to the report presentations

From 5:30 to 7:30 pm. Dr. García presented work on expanded genome targets and next generation sequencing for genotyping of ILT viruses directly from clinical samples. Dr. Keith Jarosinsky presented his work on molecular determinants that dictate MDV horizontal transmission, Dr. Rachel Jude presented developments in infectious coryza genotyping, role of IBV maternal antibodies and early vaccination in clinical false layer syndrome, and reproductive pathology associated with IBV in broiler breeder roosters, Dr. Mazhar Khan presented advances in RNA nanoparticle vaccines for IBV.

7:30 pm. Adjourn

November 1st, 2022

Attendees present at the Drury Inn: Dr. Haroldo Toro (Aburn University), Dr. Mhazar Khan (Univ. of Connecticut), Dr. Keith Jarosinski (Univ. of Illinois) Dr. Rachel Jude (Univ. of California, Davis), Dr. Chan Wong Lee (SEPRL, USDA), Dr. Don Reynolds (Univ. of Nebraska), Dr. Andrew Broadbent (Univ. of Maryland), Dr. Naola Ferguson-Noel (Univ. of Georgia), Dr. Holly Sellers (Univ. of Georgia), Dr. Maricarmen García NC-1180 Chair (Univ. of Georgia).

Attendees present via Zoom: Dr. Brian Jordan NC-1180 Secretary (Univ. of Georgia), Dr. Rodrigo Gallardo (Univ. California Davis), Dr. Tim Johnson (Univ. of Minnesota), Dr. Mostafa Ghanem (Univ. of Maryland), Dr. Michelle Colby (NIFA, USDA), Dr. Amro Hashish (Univ of Iowa), Dr. Erin Brannick (Univ. of Delaware), Dr. Silvia Carnaccini (Univ. of Georgia).

9:30AM – Meeting start, roll call

-Review 2021 meeting minutes, request to add attendees and officers/terms to 2021 meeting minutes

-Discussion of funding types

9:50AM – Comments from USDA NIFA liaison (Michelle Colby),

-New personnel update

-listening session on 11/2/2022 invitation, able to join throughout Nov

-budget information

-Discussion of AFRI Requests for Applications (RFAs), target release date for RFA in December

-Released success rates of AFRI Foundational Programs in FY 2021

10:11AM – comments from administrative advisor (Dr. Don Reynolds)

-encouraged to show collaborative efforts, outreach, and extension programs

-Project renewal: Ends Sept 30, 2024

-Review of project renewal deadlines

10:25AM – Open discussion of focus of project revisions and project objective revisions

-Members (Dr. Broadbent, Dr. Jarosinski) under NE1834 – genetic factors and agents affecting poultry immune systems – discuss inclusion of immunosuppressive diseases

-Discussion of change to poultry disease group from poultry respiratory disease group due to shrinking numbers of involved states

-Dr. Reynolds gives background on multistate projects

-DR Garcia reads comments from chat- resp diseases in field have got quieter and may be important to add other diseases to the project -proposed to change “respiratory” to “infectious”

-Dr. Garcia expressed that too much expansion may affect renewal of project

-Discuss revision of title: “removal of endemic, emerging and re-emerging?”

- Dr. Toro - “(Relevant) endemic and emerging poultry infectious diseases (of economic importance) in the United States”
 - Include “control” in objectives
- Dr. Brannick – “An integrated approach to control of poultry ~~respiratory~~ diseases”

-Revisions to project objectives:

- 1: Investigate the ecology of poultry infectious diseases
- 2: Develop new and improved diagnostic tools for important infectious diseases of poultry
- 3: Elucidate host-pathogen interactions in poultry infectious diseases
- 4: Develop control and prevention strategies for poultry infectious diseases

11:14AM – Establish a renewal project writing committee

- Dr. Brannick – write statement of issues and justification with help of Dr. Toro & Dr. Garcia
- Related current and previous work – Dr. Garcia will assign a lead person per objective and all members provide details of previous work to coalesce information; Previous year’s revision comments – emphasis on collaborations between stations and interactions with stakeholders (funded by USDA)
 - Helpful to get an idea of future individual and, particularly, collaborative efforts of committed members

11:44AM – Will revisit election of new officers

11:44AM – Discussion of next meeting

- Basic cost of meetings should be covered
- Dr. Brannick may be able to include meeting at ACVP in Chicago next year (10/28-11/31/2023)
- Goal for next year is to have more people attending in person

- **Dr. Tim Johnson will investigate University of Minnesota, St. Paul – August 2023**
- Coordinate timing with other meetings to bolster participation

12:00PM – Discussion of new officer elections

- Discussion of Dr. Garcia remaining chair until project renewal in September 2024
- Dr. Jarosinski will co-chair with Dr. Garcia
- Dr. Jude will be vice chair

12:10 – Lunch

2:00PM Station Reports Begin

- 2:00PM – Dr. Holly Sellers - Reovirus surveillance and research projects, Avian adenovirus surveillance and research projects
- 2:25PM – Dr. Haroldo Toro – Surveillance and genetic characterization of avian paramyxoviruses in wild birds and poultry; Characterization of Avian Influenza Virus Immunology and Intervention Strategies; Global Control of Infectious Bronchitis Requires Replacing Live Attenuated Viruses by Alternative Technologies; Recombination of Ark, Conn, 4/91; Molecular typing of Alabama IBVs; Recombinant NDV expressing IB spike protein; simultaneous vaccination w/ attenuated Mass IBV and recombinant NDV
- 2:48PM – Dr. Erin Brannick – Avian influenza detected in wild birds, commercial and non-commercial poultry during reporting period; Genotypes related to commonly used IBV vaccines; Emergency Poultry Disease Response Course and Veterinary Diagnostic Laboratory QA Symposium delivered virtually Summer 2022
- 3:05PM – Dr. Naola Ferguson-Noel – Focus on development of avian mycoplasma vaccines; whole genome comparisons; pathogenesis of mycoplasmas and relation to how vaccines work; live vaccination and killed vaccine combinations; next – neutralizing antibodies, local (trachea) and humoral
- 3:39PM – Dr. Amro Hashish – AP in layers w/ complete absence of any clinical presentation of infectious coryza; value of nanopore sequencing in characterization of new IBV variants; future work w/ AP – prevalence, pathogenicity testing, immunogenicity testing, development of novel qPCR
- 4:03PM – Dr. Brian Jordan – Surveillance program using RT-qPCR panel for IBV variants; tracing genomic mutations in spike of IBV DMV/1639; cause and prevention of FLS by IBV – vaccination and maternal antibody effects
- 4:20 – Dr. Andrew Broadbent – Evaluating the impact of IBDV-immunosuppression on AIV replication and evolution in chickens; ASV 2023 (www.asv.org/asv2023)
- 4:44PM – Dr. Mostafa Ghanem – MS/MG MLST database update; development of MLST assay for Avibacterium paragallinarum; Biosecurity compliance audits to prevent outbreaks of HPAI
- 5:04PM – Dr. Tim Johnson – revisiting APEC typing; relevance of APEC plasmid genes; identification of high-risk APEC clones using a combination of molecular and phenotypic approaches; revised APEC 9-plex PCR for high-risk clones (APECTyper); vaccination impact on APEC/E. coli ecology; educational program development
- 5:24PM – Dr. Don Reynolds – onj2- whole blood method for assessing innate immune responses in chickens – IL6 response following LPS stimulation – optimized times and dilutions etc-

response is coming from peripheral blood monocytes; antibody-dependent enhancement (ADE) of IBV; Big Red Biosecurity Program; outreach efforts in response to avian influenza outbreak; assess efficacy of ivermectin on an avian coronavirus; nebulization of egg yolk antibody for treatment of respiratory diseases (RSV, COVID-19)

5:46PM – Housekeeping items

- Proposing change in format of presentations
 - Singular objective/project presentation
 - Sort presentations depending on topic
 - Luncheon, if cost permits, to cut down on questions/discussion interrupting time?
 - One summary slide of all projects and objectives they address, then present one project
- Dr. Garcia will send out a vote by email for next secretary

6:04PM - Adjourn