



CERVIDAE HEALTH RESEARCH INITIATIVE

Cervidae Health Research Initiative 1st Annual Science Symposium

28 March 2017

Harn Museum of Art Auditorium, UF Campus
3259 Hull Road, Gainesville, FL 32611

8:30 – 9:00AM ***Breakfast***

Session 1: Deer Health

- 9:00 Cervidae Health Research Initiative: Mission and Strategic Plan
Samantha M. Wisely, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611
- 9:20 Epidemiology of epizootic hemorrhagic disease virus in white-tailed deer in Florida, USA: Surviving year round exposure.
Katherine Saylor, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611
- 9:40 Pathogen analysis of Florida white-tailed deer.
Kathryn Pothier, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611
- 10:00 Clinical pathology of CHeRI: What makes a healthy fawn?
Allison Cauvin, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611

10:00-10:30 AM ***Coffee Break and Poster Session***

Session 2: Diagnostics and Virus Discovery

- 10:30 Capacity building: Establishing the CHeRI cervid virus research laboratory.
John Lednicky, Department of Environmental and Global Health, University of Florida, Gainesville FL 32603
- 10:50 Bioinformatic Approaches to Viral Discovery in Florida Farmed Deer.
Subramaniam K, Department of Infectious Diseases and Pathology, University of Florida, Gainesville FL 32608
- 11:10 Phylogenomic Characterization of Novel Viruses in Florida Farmed Deer.
Thomas Waltzek, Department of Infectious Diseases and Pathology, University of Florida, Gainesville FL 32608



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Session 3: Community Ecology of Deer Farms and Implications to Disease Transmission

- 11:30 Spatial ecology of larval *Culicoides* biting midges on a Florida deer ranch.
Erik Blosser, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962
- 11:50 Living la Vida T-LoCoH: Site fidelity amongst Florida wild and captive white-tailed deer during the EHDV transmission risk period.
Emily Dinh, Department of Geography, University of Florida, Gainesville, FL 32603
- 12:10 At the trough or in insect hotspots? Evaluating risky behaviors in captive cervids and bovids on a wildlife ranch in Florida.
Jason K. Blackburn, Department of Geography, University of Florida, Gainesville, FL 32603

12:30 – 2:00 PM Lunch

Session 4: Vector ecology and the science of integrated pest management

- 2:00 Ecology of host-seeking *Culicoides* spp. biting midges at a big game preserve in Gadsden Co., FL.
Bethany McGregor, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962
- 2:20 Identification of host-derived attractants and repellents for improving *Culicoides* management on deer farms.
ENI Weeks, Dept. of Entomology and Nematology, University of Florida, Gainesville FL 32611
- 2:40 Effectiveness of D-TERRENCE in protecting penned deer from biting midges.
Alfred Runkel IV, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962

3:00 – 3:20 Coffee Break

- 3:20 Larval development of *Culicoides sonorensis* (Diptera: Ceratopogonidae) in mud supplemented with manure of various farm animal species.
Dinesh Erram, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962
- 3:40 Comparison of the efficiency of different light types and carbon dioxide in conjunction with CDC miniature light traps for trapping no-see-ums (Genus: *Culicoides*).
Kristin E. Sloyer, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962
- 4:00 Patterns of host use of *Culicoides* spp. in Florida: Implications for pathogen transmission and vector interventions.
Nathan Burkett-Cadena, Florida Medical Entomology Laboratory, University of Florida, Vero Beach, FL 32962
- 4:20 Concluding Remarks



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Poster Session

10:00-10:30AM (Meet the Authors)

Communication and collaboration of the Cervidae Health Research Initiative.

Shannon Moore, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611

Prevalence of *Theileria* in white-tailed deer in Florida.

Karen Hood, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville FL 32611

Culicoides, pesticides, and deer health.

Laura Harmon, Dept. of Entomology and Nematology, University of Florida, Gainesville FL 32611

Utilizing genotyping data to increase understanding of white tailed deer genetics, pathogen transmission, and beyond!

S.A. Gezan, School of Forest Resources and Conservation, University of Florida, Gainesville FL 32611