



2022

— YEAR END REPORT —



INSTITUTE FOR
INFECTIOUS ANIMAL DISEASES

Addressing Animal Diseases through a One Health Systems Approach



TEXAS A&M
AGRILIFE



INSTITUTE FOR
INFECTIOUS ANIMAL DISEASES

Leading global solutions for animal health.



THE YEAR 2022

Director's Statement

“As we reflect on another year at the Institute for Infectious Animal Diseases, I am proud to report on the progress we have made in our mission to protect animal and human health through research, outreach, and education.”

Despite the challenges posed by the pandemic, our team has risen to the occasion and continued to make important contributions to the field of infectious animal diseases. Whether it be through our cutting-edge research

into new and emerging threats, or our efforts to educate and engage stakeholders, we have remained steadfast in our commitment to improving public health and well-being.

I would like to thank my staff for their hard work and dedication as well as our extended IIAD community for their continued support in making the Institute a success. Your contributions are invaluable, and I am honored to be a part of this exceptional team.

As we look ahead to the future, I am confident that we will continue to make a positive impact, both within our organization and in the wider world.

INSTITUTE HIGHLIGHTS

Our Progress in 2022

For over 18 years, the Institute has provided successful animal health solutions and fostered collaborative partnerships across the globe. IIAD continues to maintain and exceed its reputation for providing didactic capacity development & training on an international and national scale.



REACH

34 Countries

The Institute worked with various countries located in Africa, Europe, and North America across projects focusing on One Health initiatives and disease risk prevention and management efforts.

**Number of countries worked with increased in 2023 by 167% compared to the previous year.*



IMPACT

70 Trainees

Throughout the year's projects, Institute personnel trained a wide variety of U.S. and international participants in animal health, epidemiology, laboratory diagnostics, and livestock industry concepts.



TEAMWORK

60 Partners

The Institute collaborated with 22 international and national organizations and government entities, 26 external researchers and consultants, 17 Texas A&M faculty, 3 students, and 5 senior fellows.



EXPERTISE
HONESTY
PASSION
SERVICE
TEAMWORK
TRANSPARENCY

FEATURED PROJECTS

Strengthening Agriculture, Animal Health, & Emergency Management

The Institute focuses its efforts on risk management and risk response for transboundary and zoonotic diseases at the human-livestock-wildlife interface.

Over the year, IIAD conducted projects leading animal health initiatives within livestock industries, emergency management, and laboratory diagnostic practices and research.

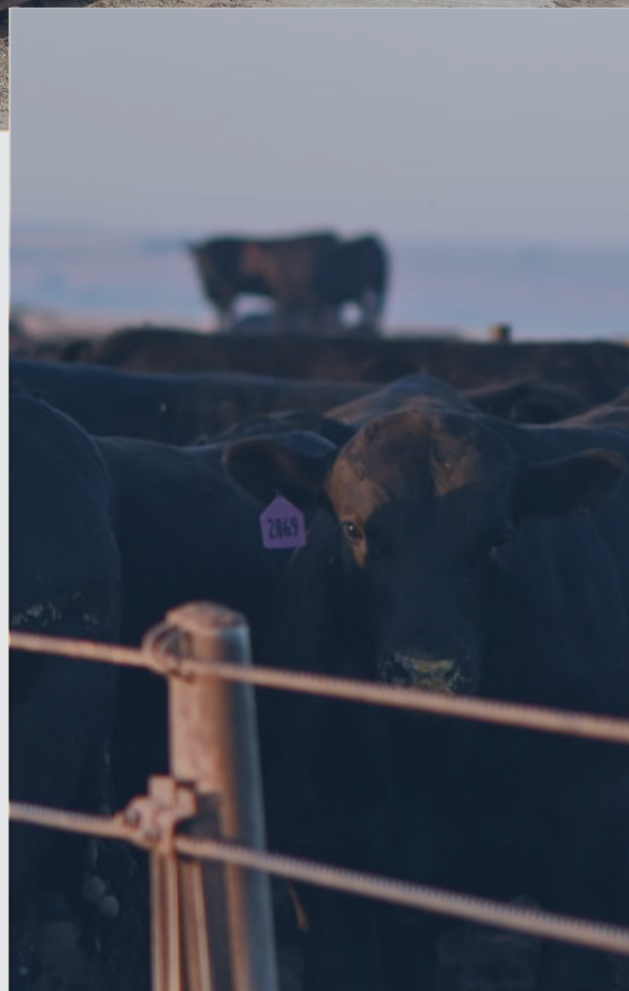


AGRIBUSINESS

Cattle Agribusiness Course

In March and April of 2022, the Institute facilitated Cattle Agribusiness Courses in Texas providing State Animal Health Officials (SAHOs) from all over the nation an opportunity to get hands-on experience with the beef and dairy industry.

IIAD program staff collaborated with the Texas Cattle Feeders Association (TCFA), Texas Association of Dairymen (TAD), Texas A&M School of Veterinary Medicine, West Texas A&M University, and the Texas A&M Veterinary Education, Research & Outreach Program (VERO) providing exclusive educational opportunities for regulatory officials to learn the day-to-day operations, production, and business principles within the cattle industry.



Course Site Visits

Personnel and course participants toured beef and dairy facilities located in Texas and New Mexico ranging from large-scale dairies, calf ranches, sale barns, and milk and beef processing plants interacting with industry personnel.

Overall Impact

“The course gave me better insight into the impact that regulatory decisions can have upon the cattle industry as a whole, as well as where government and industry can work together to solve problems,” he said. “It really gave me a great overview of the infrastructure of the beef industry to allow me, for example, to better help Idaho cattle producers prepare for a potential livestock disease outbreak. The reason state veterinarians are in the role they are in is to help make decisions that will allow business and commerce to continue in the face of a disease outbreak, while at the same time minimizing the risk of disease transmission.” — *Scott Leibsle, DVM, Idaho State Veterinarian*

The Institute will be hosting a Poultry Agribusiness Course scheduled to occur in late 2023 highlighting the poultry industry. With future funding by NADPRP, IIAD plans to further expand efforts in strengthening regulatory-industry concepts through additional agribusiness courses.



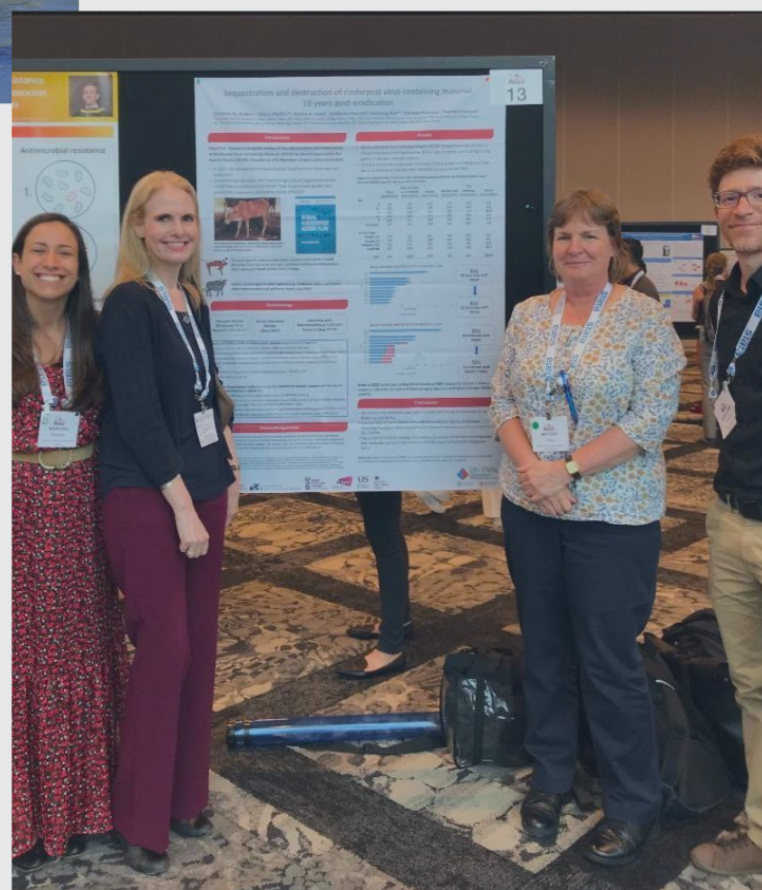


CURRICULUM

One Health Systems

Partnering with the Food and Agriculture Organization (FAO), the Institute developed One Health training modules and a comprehensive manual covering disease detection, traceability, prevention, and management at the environment-livestock-human interface.

In addition, a One Health monitoring tool was created for the environment, veterinary health sector, and public health sector.



Christine Budke and collaborating authors presented their Rinderpest Virus research at the 2022 International Symposium of Veterinary Epidemiology and Economics (ISVEE) conference.

DISEASE RESEARCH

Rinderpest Virus Publication

Funded by the World Organisation for Animal Health (WOAH) the Institute and the Royal Veterinary College (RVC) studied the Rinderpest virus post-eradication and its biological threat potential on a global scale.

IIAD's Senior Lead Scientist, Dr. Christine Budke and collaborating authors from RVC submitted their findings and research to the Center for Disease Control's Emerging Infectious Diseases (EID) Journal.

The article has been approved and published, titled "Sequestration and Destruction of Rinderpest Virus-Containing Material 10 Years after Eradication".



CARCASS DISPOSAL

Decision Support System

Funded by USDA NADPRP, the Decision Support System (DSS) centralized carcass disposal site project involved developing products modeled after the USDA Carcass Management Tool to provide guidance to responders for planning, identifying, troubleshooting, and utilizing a centralized carcass disposal site for both disease outbreaks and natural disasters.

Capturing real-world experiences from state animal health officials and environmental experts across the country, the product focused on African Swine Fever (ASF) disease outbreaks, best practices for Highly Pathogenic Avian Influenza (HPAI), and natural disaster management.

Most recently, in December 2022, the Institute held a meeting with subject matter experts and USDA personnel to receive confirmation of the product's usability and efficacy, based on experiences utilizing the product in centralized carcass disposal and composting for recent HPAI outbreaks.

With this project coming to a close, an assessment of the products developed will take place for inclusion into USDA's Carcass Management Tool Kit. Contingent upon future funding by NADPRP plans to build upon this project for 2023 are in place with the next phase to pilot the products in multiple states for identification and preparation of centralized carcass disposal sites.

FOCUSING AHEAD

2023 Projects & Activities

For the year 2023, with 14 projects currently funded, the Institute will complete 4 animal health trainings and produce 8 products under 14 projects currently funded, with a total of 3.4 million dollars awarded and 15 additional proposals submitted for future projects.

To learn more about our current projects visit our website:

<https://iiad.tamu.edu/iiad-projects/current/>

UPCOMING

African Swine Fever Economics

The Institute is partnering with Cross Border Threat Screening & Supply Chain Defense (CBTS) Center of Excellence to lead an African Swine Fever (ASF) Economics Study that will measure the economic impacts of the ASF virus on U.S. supply chains in the Food and Agriculture sector.

Poultry Agribusiness Course

Partnering with large poultry industry corporations, IIAD will be hosting a Poultry Agribusiness Course for SAHOs to gain real-world experiences and interactions within hatcheries, egg farms, hen houses, pullet barns, and processing plants to reinforce regulatory principles and disease mitigation strategies within the United States poultry industry and small-scale local producers.



International Animal Health Training

In collaboration with the African Agricultural Technology Foundation (AATF), African Union-Interafrican Bureau for Animal Resources (AU-IBAR), and USDA's Foreign Agricultural Service (FAS), the Institute piloted a virtual 3-day Standard Methods and Procedures for Animal Health (SMP-AH) training in December 2022 covering epidemiology concepts in disease surveillance, risk analysis, and laboratory testing. The training hosted over 40 participants in animal health professions from over 30 different African countries.

This spring, the project team will be facilitating the official SMP-AH virtual training over the course of 3 days to educate another group of animal health professionals. The overall goal of this project is to strengthen participants' One Health knowledge and practices in correlation with developing an animal health surveillance plan for their respective countries.





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