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# WOAH Collaborative Centre Reports Activities 2024

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## CENTRE INFORMATION

<b>*Title of WOAHCollaborating Centre</b>	Vaccine Evaluation in the Americas (IICAB)
<b>*Address of WOAHCollaborating Centre</b>	Institute for International Cooperation in Animal Biologics
<b>*Tel:</b>	+15152947632
<b>*E-mail address:</b>	iicab@iastate.edu
<b>Website:</b>	www.cfsph.iastate.edu/iicab
<b>*Name Director of Institute (Responsible Official):</b>	Daniel Grooms, Dean, Iowa State University College of Veterinary Medicine
<b>*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</b>	James A. Roth, Director, Molly Lee, Associate Director
<b>*Name of the writer:</b>	Jane Galyon

## TOR 1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOAHC

Category	Title of activity	Scope
		Deliver a variety of transboundary animal

Disease control (true)	Preparedness Resources	disease preparedness resources at <a href="http://www.cfsph.iastate.edu/emergency-response/">www.cfsph.iastate.edu/emergency-response/</a> Deliver a variety of infection control resources at <a href="http://www.cfsph.iastate.edu/infection-control/">www.cfsph.iastate.edu/infection-control/</a>
Training, capacity building (true)	Fact sheets for transboundary animal diseases	Technical Fact Sheets: 148 English fact sheets, downloaded 541,136 times in 2024; 138 Spanish fact sheets, downloaded 539,479 times in 2024; 44 Portuguese fact sheets, downloaded 103,586 times in 2024; and 11 French fact sheets, downloaded 8088 times in 2024. One Page Fact Sheets for the Public: 89 English, downloaded 213,054 times in 2024; 67 Spanish, downloaded 144,496 times in 2024. Annotated Images of Animal Diseases: 410 annotated images, 44,232 views (English) and 17,157 views (Spanish) in 2024
Vaccines (true)	Veterinary Biologics Training Program	Annual 5-day in-person course on the USDA regulatory process for assuring the purity, safety, potency and efficacy of veterinary biologics. Jointly organized and offered by the USDA Center for Veterinary Biologics and IICAB.
Disease control (true)	Secure Food Supply Plans	Work with federal, state and industry officials on plans to avoid interruptions in animal product/animal movement to commercial processing from farms with no evidence of infection during a foreign animal disease outbreak. <a href="http://www.cfsph.iastate.edu/secure-food-supply/">www.cfsph.iastate.edu/secure-food-supply/</a>
Disease control (true)	Outreach on U.S. disease preparedness efforts for FMD to countries in the Americas	Sharing of information regarding USDA resources, Secure Food Supply Plans and the Framework for Interstate and Intrastate Movement during an FMD outbreak with government officials and producers in the Americas.
Training, capacity building (true)	Certified Swine Sample Collection Program	Deliver a program for USDA Category 2 veterinarians to train producers, caretakers and industry partners how to properly collect samples from swine for diagnostic and surveillance purposes. During an outbreak, state animal health officials determine when collectors are authorized to collect samples and provide guidance on testing protocols. This program increases the number of individuals authorized to collect samples. Available in English and Spanish.

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Training, capacity building (true)	Transboundary and Emerging Diseases of Animals online course	Online training used by all US veterinary schools to provide training on transboundary animal diseases and required for initial accreditation training in the U.S. Also offered for continuing education.
Vaccines (true)	Veterinary Immunology & Vaccinology courses	Online courses providing an overview of veterinary immunology and vaccinology.

## TOR 3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable Area
Veterinary Biologics Training Program	Training on the USDA process for regulating veterinary biologics and diagnostics, with USDA Center for Veterinary Biologics	Veterinary Products
Secure Food Supply Plans	Discussions on avoiding interruptions in animal product/animal movement from farms with no evidence of infection during a foreign animal disease outbreak. These plans cover pork, beef, milk, poultry, and sheep and wool	Health Management
Certified Swine Sample Collector Program	Training individuals to collect samples during a foreign animal disease emergency	Training and Education
Outreach on U.S. preparedness for FMD in the Americas	Educating producers and government officials in the Americas on preparedness for FMD activities in the U.S. that could be adapted to other countries.	Training and Education

3. In exercising your activities, have you identified any regulatory research needs\* relevant for WOA?H?

Yes

### Research need 1

**Please type the Research need:** Validation of milk bulk tank PCR and virus isolation tests to detect HPAI in cattle

**Relevance for WOA**H Disease Control,

**Relevance for the Code or Manual** Manual,

**Field** Diagnostics,

**Animal Category** Terrestrial,

**Disease:**

Avian influenza

**Kind of disease (Zoonosis, Transboundary diseases)** Zoonosis, Transboundary diseases,

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:*

**Notes:**

*Answer:*

### Research need 2

**Please type the Research need:** Validation of virus PCR and antibody tests of oral fluids in swine for diagnosis of ASF and FMD

**Relevance for WOA**H Disease Control,

**Relevance for the Code or Manual** Manual,

**Field** Diagnostics,

**Animal Category** Terrestrial,

**Disease:**

African swine fever

Foot and mouth disease

**Kind of disease (Zoonosis, Transboundary diseases)** Transboundary diseases,

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:*

**Notes:**

*Answer:*

### Research need 3

**Please type the Research need:** Validation of water trough samples from cattle, sheep, and goats using FMD PCR for



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diagnostics

**Relevance for WOA**H Disease Control,

**Relevance for the Code or Manual** Manual,

**Field** Diagnostics,

**Animal Category** Terrestrial,

**Disease:**

Foot and mouth disease

**Kind of disease (Zoonosis, Transboundary diseases)** Transboundary diseases,

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:*

**Notes:**

*Answer:*

#### Research need 4

**Please type the Research need:** Validation of point of care diagnostics using antibody to detect ASF and FMD viral antigens, similar to COVID rapid tests

**Relevance for WOA**H Disease Control,

**Relevance for the Code or Manual** Manual,

**Field** Diagnostics,

**Animal Category** Terrestrial,

**Disease:**

African swine fever

Foot and mouth disease

**Kind of disease (Zoonosis, Transboundary diseases)** Transboundary diseases,

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:*

**Notes:**

*Answer:*

4. Did your Collaborating Centre maintain a network with other WOA

H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA	Location	Region of networking	Purpose
Name of WOA CC/RL/other organisation(s)	Location	Region of networking	Purpose

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		Centre	
Vaccine Evaluation in the Americas: USDA APHIS Center for Veterinary Biologics and the Institute for International Collaboration in Animal Biologics, Iowa State Univ	Ames, IA USA	América	Training on the USDA regulatory process for veterinary biologics, outreach to veterinary biologics regulators and companies in the Americas and beyond. Harmonization of veterinary biologics regulations.

## TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAHO Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOAHO CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Animal Disease Surveillance Systems, Risk Analysis and Epidemiological Modeling Collaborating Center	Ft. Collins, CO USA	Americas	Secure Food Supply projects, business continuity planning and efforts
Biological Threat Reduction	College Station, TX USA	Americas	Point of Care diagnostics project

## TOR 6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAHO?

Yes

Name of expert	Kind of consultancy	Subject
James A. Roth	Inspection	Site inspection of rinderpest holding facility in France for GF-TADS (FAO and WOAHO)

## TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

*Technical Fact Sheets: 148 English fact sheets, downloaded 541,136 times in 2024; 138 Spanish fact sheets, downloaded 539,479 times in 2024; 44 Portuguese fact sheets, downloaded 103,586 times in 2024; and 11 French fact sheets, downloaded 8088 times in 2024.*

*One Page Fact Sheets for the Public: 89 English, downloaded 213,054 times in 2024; 67 Spanish, downloaded 144,496 times in 2024.*

*Annotated Images of Animal Diseases: 410 annotated images, 44,232 views (English) and 17,157 views (Spanish) in 2024*

*Veterinary Biologics Training Program:*

*36 international participants, 112 U.S. participants in 2024*

*Veterinary Immunology and Vaccination On-line Courses:*

*71 participants in 2024*

*Transboundary and Emerging Diseases of Animals*

*During calendar year 2024, 5,257 veterinary students used the course along with 710 graduate veterinarians for a total of 5,967 individuals. Also offered for continuing education, 278 participants.*

*Secure Food Supply Websites:*

*Secure Beef (<https://www.securebeef.org>) 54,634 page views, 9,407 users*

*Secure Milk (<https://www.securemilksupply.org>) 79,894 page views, 45,117 users*

*Secure Sheep & Wool (<https://www.securesheepwool.org>) No data available due to setup error*

*Secure Pork (<https://www.securepork.org>) 79,297 page views, 7,529 users*

*Poultry biosecurity (<https://poultrybiosecurity.org>) 46,397 page views, 10,704 users*

*Certified Swine Sample Collection Program:*

*15 states implemented the program and 555 individuals have been trained. Almost 12,416 page views; Spanish resources: 1211 views and 724 unique users.*

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOA, to personnel from WOA Members?

Yes

a) Technical visit : 0

b) Seminars : 6464

c) Hands-on training courses: 0

d) Internships (> 1 month) : 0

Type of technical training provided (a, b, c or d)	Content	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
B	Veterinary Biologics Training Program, in-person 5 day course	Argentina (3); Australia (2); Brazil (4); Canada (5); Chile (2); Ecuador (1); France (1); Germany (1); Great Britain (1); Japan (2); Korea (3); Paraguay (1); Saudi Arabia (2); Singapore (2); Spain (2); South	148

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		Africa (2); Thailand (2); U.S (112)	
B	Veterinary Immunology & Vaccinology Courses	Brazil (2); Canada (5); Spain (1); New Zealand (7); Ukraine (1); U.S. (55)	71
B	Transboundary & Emerging Diseases of Animals Course for Continuing Education	Belgium (1); Brazil (1); Canada (2); Chile (1); Colombia (1); Dominican Republic (1); Greece (1); Hong Kong (1); Japan (1); Mexico (2); Minor Outlying Islands (1); Peru (1); Philippines (1); Puerto Rico (1); Senegal (1); Thailand (1); U.S. (260)	278
B	Transboundary & Emerging Diseases of Animals Course	United States	5967

## TOR 8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H

No

## TOR 9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOA?H that may be useful to Members of WOA?H

a) Articles published in peer-reviewed journals:

1

*Roth, J.A., Galyon, J. Food security: The ultimate one-health challenge. One Health, special issue from the International Symposium on One Health Research: Improving Food Security and Resilience. Volume 19, December 2024, 100864.*

<https://doi.org/10.1016/j.onehlt.2024.100864>

b) International conferences:

2

*Roth, J.A. TAFS conference: Sustainable control of Foot and Mouth Disease in a Changing Environment. "Factors to Consider in an Outbreak of FMD in a Country that is FMD Free Without Vaccination" and "Learning From Others: The U.S. Plans for an FMD Response." Buenos Aires, Argentina. July 29, 2024.*

*Roth, J.A. GF-TADS (FAO & WOA?H). Site inspection of Rinderpest Holding Facility, Categories A and B at the French agricultural Research Centre for International Development. Montpellier, France. September 30-October 4, 2024*

c) National conferences:

13



Roth, J.A. Agriculture Committee, Iowa House of Representatives. "mRNA Vaccines for Livestock". Des Moines, IA. February 6, 2024.

Roth, J.A. Great Plains Emerging Infectious Diseases Conference, University of Iowa, College of Public Health, Keynote Presentation: "Vaccines Against Transboundary Diseases of Livestock and Poultry for Pandemic Preparedness and Food Security" Iowa City, IA. April 4, 2024

Roth, J.A. International Symposium on One Health Research: Improving Food Security and Resilience. Keynote Address: "Food Security: the Ultimate One Health Challenge". Galveston, TX. April 21, 2024.

Lee, M. Biosecurity Update for Veterinarians (presentation/workshop). Update for Veterinarians. McNay Research Farm, Chariton, IA; June 25, 2024

Roth, J.A. National Cattlemen's Beef Association, Cattle Health Committee Working Group on Emerging Cattle Health Research Issues and Herd Security "Active Observational Surveillance as a Tool for Biosecurity." San Diego, CA July 8, 2024.

Lee, M. Secure Food Supply Plans: Continuity of Livestock Commodity Businesses through Enhanced Biosecurity. 20th Annual Midwest Area Biosafety Network (MABioN) Biosafety Hybrid Symposium. Ames, IA; August 6, 2024.

Roth, J.A. Panel discussion on HPAI and its impacts to multiple species; Overview of Secure Pork Supply as Related to HPAI H5N1 in Pigs. National Association State Departments of Agriculture, Annual Meeting. Indianapolis, IN; September 24-25, 2024.

Lee, M. CFSPH and IICAB. Visit from US Ambassadors to Tunisia and Mauritania. Ames IA; November 1, 2024.

Roth, J.A. Iowa Turkey Federation Winter Conference. One Health Perspective for Turkey Producers. West Des Moines, IA. December 11, 2024.

Kaisand, J., Lee, M., Pruisner, R., Roth, J., and Rumsey, K. State of Iowa Stakeholder Workshop (African swine fever response). Des Moines, IA; December 12, 2024.

#### Webinars:

Roth, J.A. California Department of Food and Agriculture, Cattle Health Advisory Task Force. "FMD Movement Plan for Continuity of Business". March 21, 2024

Roth, J.A. APHIS National Training and Exercise Program. "Framework on Interstate Movement Decisions During a Foot and Mouth Disease Outbreak in the United States". March 25, 2024.

Roth, J.A. STAR-IDAZ IRC Workshop: Shaping the Future of Livestock Tick Vaccines. "World Organization for Animal Health Minimum Requirements for Vaccines". Sao Paulo, Brazil. June 17, 2024.

d) Other (Provide website address or link to appropriate information):

9

Framework for Interstate and Intrastate Movement Decisions During a Foot and Mouth Disease Outbreak in the United States. March 1, 2024, J.A. Roth, C. Eia, and J. Galyon, 45 pages.

<https://www.cfsph.iastate.edu/pdf-library/FMD-Resources/fmd-framework-for-movement.pdf>

AGRO AMERICA interview in Portuguese, December 2024. J.A. Roth.

<https://youtu.be/6AHsSvl6Q7Y?si=ITjaeMOrkll82r65>

[www.cfsph.iastate.edu](http://www.cfsph.iastate.edu)  
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[www.cfsph.iastate.edu/teda-course/](http://www.cfsph.iastate.edu/teda-course/)

<https://www.cfsph.iastate.edu/diseaseinfo/>  
<https://www.cfsph.iastate.edu/secure-food-supply/>  
<https://www.securepork.org/training-materials/disease-monitoring-sample/>

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

*IICAB continued efforts to move software that was running on old on-site web server technology to current technologies in the Azure cloud computing platform. In addition, IICAB revised online content to meet new accessibility guidelines. For the Veterinary Biologics Program, IICAB and CVB are working together to modify the agenda to better meet participants needs.*

12. Additional comments regarding your report: