

# WOAH Reference Laboratory Reports Activities 2023

## Activities in 2023

This report has been submitted : 10 mai 2024 14:46

### Laboratory Information

<b>Name of disease (or topic) for which you are a designated WOAHO Reference Laboratory:</b>	African Swine Fever
<b>Address of laboratory:</b>	Foreign Animal Disease Diagnostic Laboratory, PIADC, 40550 Rt 25, Orient Point, NY11957, USA
<b>Tel.:</b>	+1 (631)3233314
<b>E-mail address:</b>	ping.wu@usda.gov
<b>Website:</b>	www.aphis.usda.gov/aphis/ourfocus/animalhealth/lab-info-services
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Dr. Robin Holland, FADDL Director
<b>Name (including Title and Position) of WOAHO Reference Expert:</b>	Dr. Ping Wu, Veterinary Medical Officer
<b>Which of the following defines your laboratory? Check all that apply:</b>	Governmental

### TOR1: DIAGNOSTIC METHODS

1. Did your laboratory perform diagnostic tests for the specified disease/topic for purposes such as disease diagnosis, screening of animals for export, surveillance, etc.?

(Not for quality control, proficiency testing or staff training)

Yes

Diagnostic Test	Indicated in WOAHO Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
<b>Indirect diagnostic tests</b>			
ASF ELISA		65043	4228
ASF IP		15	0
<b>Direct diagnostic tests</b>			
ASF PCR		68077	87520
ASF VI		37	0
ASFV Sequencing		0	838

### TOR2: REFERENCE MATERIAL

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by WOAHO?

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAHO Members?

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED	AMOUNT SUPPLIED INTERNATIONALLY	NO. OF RECIPIENT WOAHO MEMBER	COUNTRY OF RECIPIENTS
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			NATIONALLY (ML, MG)	(ML, MG)	COUNTRIES	
RT-PCR Amplification Control	PCR	500 vials	400 vials	0	1	UNITED STATES OF AMERICA,
ASFV Antiserum	ELISA	10 Batched, 500mL/batch	0	0	1	UNITED STATES OF AMERICA,
IPT Antigen Plate	IPT	40 plates	20 plates	0	1	UNITED STATES OF AMERICA,

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAHA Members?

Not applicable

### TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

No

7. Did your laboratory validate diagnostic methods according to WOAHA Standards for the designated pathogen or disease?

Yes

NAME OF THE NEW TEST OR DIAGNOSTIC METHOD DEVELOPED	DESCRIPTION AND REFERENCES (PUBLICATION, WEBSITE, ETC.)
ASF/CSF multiplex PCR	Implemented in the APHIS laboratory in Dorado, Puerto Rico and NAHLN laboratory.
Evaluating the MIC qPCR platform to use with the FADDL ASF real-time PCR assay	Initial stage

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

No

9. Did your laboratory validate vaccines according to WOAHA Standards for the designated pathogen or disease?

No

### TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAHA Members?

Yes

NAME OF WOAHA MEMBER COUNTRY SEEKING ASSISTANCE	DATE	WHICH DIAGNOSTIC TEST USED	NO. SAMPLES RECEIVED FOR PROVISION OF DIAGNOSTIC SUPPORT	NO. SAMPLES RECEIVED FOR PROVISION OF CONFIRMATORY DIAGNOSES
DOMINICA DOMINICAN (REP.)	2023-01-01	ASF PCR	384	0
HAITI	2023-12-01	ASF PCR	238	0

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAHA Member?

Yes

NAME OF THE WOAHA MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
DOMINICAN (REP.)	Provide technical and logistical support	In Person

### TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAHA Members other than the own?

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAHA MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Global Partnership for Animal and Zoonotic Disease Surveillance (GPAZDS)	Ongoing	Sequencing and Bioinformatic analysis.	9	CAMEROON GAMBIA GHANA NIGERIA PHILIPPINES SENEGAL UGANDA

African Center of Excellence for Genomics of Infectious Diseases (located in Nigeria) Implement of diagnostic sequencing and genomic surveillance of ASFV in Hispaniola	ongoing	Genomic sequencing and surveillance of ASFV in West Africa	African Center of Excellence for Genomics of Infectious Diseases (located in Nigeria)	NIGERIA
Implement of diagnostic sequencing and genomic surveillance of ASFV in Hispaniola	ongoing	Diagnosis and genomic surveillance of ASFV	Dominican Republic	DOMINICAN (REP.)

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

No

## TOR6: EPIZOOLOGICAL DATA

14. Did your Laboratory collect epidemiological data relevant to international disease control?

Yes

IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:

Dominican Republic Island wide ASF and CSF disease surveillance of domestic and feral pigs. Including premises in US Virgin Islands. Whole genome sequencing was conducted on field specimens from the Dominican Republic ASF outbreak, information including animal location and testing data were also assembled.  
Received ASF pos blood samples from the Dominican Republic to support FADDL's diagnostic assay evaluations

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

No

16. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category and list the details in the box)

a) Articles published in peer-reviewed journals:

2

*Full genome sequence for the African swine fever virus outbreak in the Dominican Republic in 1980; Scientific Reports, January 19, 2023. 2023, 13: 1024.*  
<https://pubmed.ncbi.nlm.nih.gov/36658154/> E. Spinard, V. O'Donnell, E. Vuono, A. Rai, C. Davis, E. Ramirez-Medina, N. Espinoza, A. Valladares, M. Borca, D. P Gladue.  
*The 2022 Outbreaks of African Swine Fever Virus Demonstrate the First Report of Genotype II in Ghana, Viruses, 2023, 15, 1722.*  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10459280/> E. Spinard, A. Rai, J. Osei-Bonsu, V. O'Donnell, P. Ababio, D. Tawiah-Yingar, D. Arthur, D. Baah, E. Ramirez-Medina, N. Espinoza, A. Valladares, B. Faburay, A. Ambagala, T. Odoom, M. V Borca, D. P Gladue.

b) International conferences:

0

c) National conferences:

3

*Post presentation of ASF/CSF multiplex at the 2023 CRWAD meeting*  
*May 2-4, 2023 PPT presentation at Veterinary Services Puerto Rico Annual Work Conference*  
*October 9, 2023 PPT presentation at Caribbean Week of Agriculture: CARICOM Chief Veterinary Officer Workshop on African Swine Fever*

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

1

*PPT presentations on forums which we are invited and requested laboratory tours*  
*NVSL NAHLN African Swine Fever Laboratory Preparedness Week – June 12th – 15th, 2023, Manhattan, KS.*

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAHA Members?

Yes

a) Technical visit : 5

b) Seminars : 2

c) Hands-on training courses: 2

d) Internships (>1 month) 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
B	NIGERIA	6
C	UGANDA	30
C	PHILIPPINES	50

## TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17043	refer to attached file	2526-08 2024.pdf
ISO 17025	refer to attached file	2526-04 2024.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
ASFV Antibody ELISA, IPT, PCR, VI	American Association for Laboratory Accreditation (A2LA)

20. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

Yes

## TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAHA?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAHA?

No

## TOR10: NETWORK WITH WOAHA REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAHA Reference Laboratories designated for the same pathogen or disease?

Yes

24. Do you network (collaborate or share information) with other WOAHA Reference Laboratories designated for the same pathogen?

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAHA Reference Laboratories designated for the same pathogen?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOAHA REF. LABS/ ORGANISING WOAHA REF. LAB.
ASF Interlaboratory Comparison Test, CISA-INIA	Participant	1	CISA-INIA

26. Did your laboratory collaborate with other WOAHA Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

**TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING**

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOH Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons <sup>1</sup>	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOAH Member Countries
Maintain Diagnostic performance quality in state diagnostic laboratories	Organizer	46	ASFV PCR	UNITED STATES OF AMERICA,

**TOR12: EXPERT CONSULTANTS**

28. Did your laboratory place expert consultants at the disposal of WOH?

No

29. Additional comments regarding your report:

No