WOAH Reference Laboratory Annual Reports (RINDERPEST)

Activities in 2022				
Name of Head of Laboratory: Name of WOAH Reference Expert:				ssociate Director, Foreign Animal Disease Diagnostic Laboratory ry Services Laboratories (NVSL) – USDA, APHIS
		Dr. Wei Jia, Supervisory Veterinary Medical Officer, Head of Reagents and Vaccine Services Section, FADDL, NVSL - USDA, APHIS		
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A: Maintaining Scientific and Technical Skills

- 1. Did your laboratory perform relevant diagnostic tests for purposes such as disease, diagnosis, screening of animals for export, surveillance, etc. (not for quality control, proficiency testing or staff training)
 - a. For the specified disease?
 - b. For closely related diseases or pathogens?

Disease	Diagnostic Test	Indicated in WOAH	Total number of tests performed last year		
Disease		Manual (Yes/No)	Nationally	Internationally	

Rinderpest Virus (RPV)	Real time RT-PCR (rRT-PCR)	Yes	0 Diagnostic (Dx) Test	0 Dx Test
			0 Safety Test 910 Freedom Tests on	0 Safety Test
			biological materials to be	
			transferred to NBAF	
Peste des Petits Ruminants Virus (PPRV)	rRT-PCR	Yes	1 Dx Test	0 Dx Test
			0 Safety Test	5 Safety Tests

2. Did your laboratory produce, supply, or import standard reference reagents officially recognised by WOAH for the specified disease or for closely related diseases?

Type of Reagent Available	Related diagnostic test	Produced/Supplied/Imported	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	Name of recipient WOAH Members
Non-pathogenic RPV PT panel	RPV rRT-PCR	0	12 panels	0	FADDL
Non-pathogenic RPV PEC and PAC controls	RPV rRT-PCR	0	12 PEC 12 PAC	0	FADDL
Non-pathogenic PPRV PT panel	PPRV rRT-PCR	10 panels	All the panels were made in RVSS, and transferred to and stored in PVSS	0	FADDL
Non-pathogenic PPRV PEC and PAC controls	PPRV rRT-PCR	300 PEC 100 PAC	All the PECs and PACs were made in RVSS, and transferred to and stored in PVSS	0	FADDL

3. Did your laboratory supply, exchange or receive standard reference reagents and/or other diagnostic reagents for the specified disease

Type of reagent	Related diagnostic test	Supplied by your lab, exchanged or received	Amount	Name of recipient or supplier Member
No				

4. Did your laboratory provide expert advice in technical consultancies on the request of a WOAH Member for the specified disease or for closely related diseases?

Name of the WOAH Member receiving the technical consultancy	Purpose	How the advice was provided
No		

5. What method of dissemination of information is most often used by your laboratory? (please provide information on activities for other diseases relevant to maintaining capability for specified disease) [a: Articles published in peer-reviewed journals; b: International conferences; c: National conferences; d: Other]

Articles published in peer-reviewed journals]

6. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

No

Yes

7. Did your laboratory implement activities to ensure ongoing capability for the designated disease or closely related disease in the event of loss of the key staff including the WOAH Reference Expert?

Activity	Description
Trained, maintained, and/or increased personnel that are proficiency tested in running the RPV rRT-PCR	Twelve FADDL personnel proficient in RPV rRT-PCR
Trained, maintained, and/or increased personnel that are proficiency tested in running PPRV rRT-PCR	Six FADDL personnel proficient in PPR rRT-PCR

B: Laboratory Systems

8. Does your laboratory have a Quality Management System certified according to an International Standard? If YES indicate the name of the quality management system adopted or currently in place. Also attach a scanned certificate of the system.

Yes, FADDL uses the National Veterinary Services Laboratories (NVSL) Quality Management System (QMS). The system adopted ISO/IEC 17025:2017 fo
Diagnostic Testing and ISO/IEC 17043:2010 for Proficiency Testing (the certificates attached).

9. Is your laboratory accredited by an international accreditation body? If 'yes' indicate test for which your laboratory is accredited and name of the accreditation body.

(es, FADDL is accredited by the American Association for Laboratory Accreditation (A2LA), which is an assay-based accreditation. The following assays a	e
accredited by the A2LA:	

- a. Agar Gel Immunodiffusion (AGID)
- b. Avidin Biotin Complex (ABC) Assay
- c. Complement Fixation Test
- d. DNA and RNA Extraction
- e. Enzyme Linked Immunosorbent Assay (ELISA)
- f. Immunoperoxidase (IP)
- g. Real-time PCR
- h. Virus Isolation (VI)
- i. Virus Neutralization (VN)
- 10. Does your laboratory maintain a "biorisk management system" for the pathogen and the disease concerned?

No

11. Does your laboratory have a biosecurity system in place to ensure security for the pathogen and materials that may contain the infectious pathogen?

🔀 Yes

No

C: Capability to Respond to a Suspected Case

12. In the last year, did your laboratory perform diagnostic tests for the specified pathogen and the disease in order to confirm ongoing capability?

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of tests performed last year
Refer the answer in Item A. 7.		

13. Did your laboratory produce vaccines for the specified disease or similar diseases?

Disease	Amount supplied nationally or internationally	
No		

14. Did your laboratory organise or participate in inter-laboratory proficiency tests with any other laboratories for the specified disease or similar diseases?

Role of your laboratory (organiser or participant)	Disease	Test	Number of participating laboratories	Regions of participating WOAH Members
Answered an inquiry of the RHF in China Institute of Veterinary Drug Control (IVDC) about the non- pathogenic RPV PT initiated by FADDL several years ago	RP	RPV rRT-PCR	1 (IVDC)	Asia (China)

D: Networks and Linkages

15. Did your laboratory organise or participate in scientific meetings for the specified disease?

Title of event	Date	Location	Role (organiser, speaker, presenter)	Title of work presented
Rinderpest Holding Facility (RHF) Network Meeting	July 7, 2022	Teleconference	Participator/Presenter	Updates of the FAO/WOAH RHF at FADDL
5th Outreach Meeting for Maintaining Global Freedom from Rinderpest	September 27- 28, 2022	Rome, Italy	Participator/Presenter	Updates of the FAO/WOAH RHF at FADDL

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

🛛 Yes

🗌 No

17. Was your laboratory involved in maintaining a network with WOAH Reference Laboratories designated for the same pathogen or disease?

🖂 Yes

No No

18. Did your laboratory place expert consultants at the disposal of WOAH?

🛛 Yes

No No

19. Did your laboratory carry out activities to raise awareness and improve capability for this disease in other Members?

Description of activity	Date	Member countries
No		

E: Biosafety

20. What level of biocontainment is used in your laboratory for (a) storage and (b) handling of potentially infectious material for the specified disease?

BSL-3	
L	
Does your laboratory maintain a structured risk assessme	nt for work with potentially infectious material for the specified disease?
🔀 Yes	No
Was your laboratory's risk assessment for work with pote	ntially infectious material reviewed in the past year?
🔀 Yes	Νο
Does your laboratory have an emergency response plan for	or biosafety incidents involving potentially infectious material for the specified disease?
🔀 Yes	No
	Does your laboratory maintain a structured risk assessme Yes Was your laboratory's risk assessment for work with pote Yes Does your laboratory have an emergency response plan fo

F: Research

24. Did your laboratory develop new diagnostic methods for the designated pathogen or disease, or a similar disease?

Disease	Diagnostic Method	Description
	A verification method used for the PPRV inactivation verification	Developed and established a virus capture method using Nanotrap [®] magnetic virus particles to assess and verify chemical inactivation of PPRV

25. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than your own?

Title of study	Duration	Purpose of study	Partners (Institutions)	WOAH Members Involved other than your country
No				

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

Title of Project or Contract	Scope	Name(s) of relevant WOAH Reference Laboratories
No		

27. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH? Please report them here: MS teams form

*Regulatory research needs = a gap in knowledge that could help in setting/updating standard(s) in the Terrestrial and Aquatic Codes and Manuals

28. Additional comments regarding your report (if any):

Submitted a project proposal of Rinderpest Virus (RPV) Sequencing and Destruction and associated documents to FAO/WOAH Rinderpest-Secretariat for review and approval