OIE Reference Laboratory annual reports (RINDERPEST)

Activities in 2021

Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Gleeson Murphy, Supervisory Veterinary Medical Officer, Director, Diagnostic Bioanalytical & Reagent Lab (DBRL) at National Veterinary Services Laboratories (NVSL)
Name (including Title and Position) of OIE Reference Expert:	Dr. Wei Jia, Supervisory Veterinary Medical Officer, Head of Reagents and Vaccine Services Section, Foreign Animal Disease Diagnostic Laboratory (FADDL)
Email address:	wei.jia@usda.gov
Address of laboratory:	USDA, APHIS, VS, NVSL Foreign Animal Disease Diagnostic Laboratory Plum Island Animal Disease Center P.O. Box 848, Greenport New York 11944 UNITED STATES OF AMERICA
Website:	https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/lab-info-services/SA_About_NVSL/CT_About_faddl
Telephone:	+1-631-323-3344
Fax:	+1-631-323-3366

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 OIE Manual (Yes/No)	Total number of tests performed last year	
			Nationally	Internationally
Rinderpest Virus	Real time RT-PCR (rRT-PCR)	No	2 (safety test)	0
Peste des Petits Ruminants virus	rRT-PCR	No	8 (safety test)	2 (safety test)

2. Did your laboratory produce, supply, or import standard reference reagents officially recognised by the OIE 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 OIE member countries
RPV PT panel	rRT-PCR	None in 2021	N/A	N/A	
PPRV PT panel	rRT-PCR	None in 2021	N/A	N/A	
Non-pathogenic PPRV PEC and PAC controls	rRT-PCR	None in 2021	N/A	N/A	

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 country
No				

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

Name of the OIE member country 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]

Peer reviewed journals

6. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

☐ Yes ☐ No X

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 OIE Reference Expert?

Activity	Description
Trained and increased in personnel proficiency in RP rRT-PCR	Trained and proficiency tested four FADDL and two Agriculture Research Service (ARS) staff at Plum Island Animal Disease Center
PPR Real time RT-PCR proficiency test	Two FADDL staff and three (ARS) staff at Plum Island Animal Disease Center participated in the PT

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 for 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.

Yes, FADDL is accredited by the American Association for Laboratory Accreditation (A2LA), which is an assay-based accreditation. The following assays are 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?

☐ Yes X ☐ 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 X ☐ 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 OIE Manual (Yes/No)	Total number of tests performed last year
Refer the 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 OIE member countries
No				

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	05/18/2021	Teleconference	Presenter	Updates of FAO/OIE RHF at FADDL
RHF Network Meeting	12/03/2021	Teleconference	Presenter	Updates of FAO/OIE RHF at FADDL

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

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

21. Does your laboratory maintain a structured risk assessment for work with potentially infectious material for the specified disease?

☒ Yes ☐ No

22. Was your laboratory's risk assessment for work with potentially infectious material reviewed in the past year?

☒ Yes ☐ No

23. Does your laboratory have an emergency response plan for biosafety incidents involving potentially infectious material for the specified disease?

☒ Yes ☐ No

F: Research

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

Disease	Diagnostic Method	Description
PPRV	Inactivation method of PPRV for viral RNA extraction	Examined and validated PPRV inactivation after treated by different chemical and physical methods

25. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than your own?

Title of study	Duration	Purpose of study	Partners (Institutions)	OIE Member Countries Involved other than your Country
No				

26. Did your laboratory collaborate with other OIE 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 OIE Reference Laboratories
No		

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