OIE Reference Laboratory Reports Activities

Activities in 2020

This report has been submitted : 2021-01-17 16:30:08

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Foot and mouth disease
Address of laboratory:	P.O. Box 848 Greenport, NY 11944 UNITED STATES OF AMERICA
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Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Karl J. Hochstein, Acting Director, National Veterinary Services Laboratories, DB, VS, APHIS, USDA
Name (including Title and Position) of OIE Reference Expert:	Dr. Consuelo Carrillo, VMO-Senior Animal Health Advisor, Diagnostic Services Section, FADDL, NVSL, DB, VS, APHIS, USDA
Which of the following defines your laboratory? Check all that apply:	Governmental

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
ELISA (NSP, 3ABC)	YES	359	0
VIAA (AGID)	NO	73	0
VIRUS NEUTRALIZATIO	YES	0	0
Ag ELISA (VI)	YES	0	0
Direct diagnostic tests		Nationally	Internationally
IBRS-2 CELL CULTURES	YES	161	0
LAMB KIDNEY CELL CU	YES	161	0
Real-Time RT-PCR	YES	742	0
Genomic Sequencing	NO	0	0

ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.

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

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

No

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

Yes

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

Name of the new test or diagnostic method or vaccine developed	Description and References (Publication, website, etc.)
FMDV-Senecavirus A multiplex real time RT-PCR	A single tube assay to differentially detect presence of nucleic acids from the two look alike swine diseases. Published in TBED 2020 March; 67 (2) 604-616.

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

No

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

No

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

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

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
HARMINIZATION OF METHODS OF DIAGNOSTIC FOR FADs	2 YEARS	VALIDATION OF ORAL FLUIDS AS POOLED DIAGNOSTIC SAMPLES	CANADIAN FOOD INSPECTION AGENCY (CFIA)	CANADA

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

No

If the answer is no, please provide a brief explanation of the situation:
The COVID-19 and the absence of FMDV activity in the region did not produce the environment for collecting epidemiological data relevant to international disease control of FMD.

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:
There have been no activity in this subject and therefore nothing to report/disseminate

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

a) Articles published in peer-reviewed journals: 2
Development and evaluation of multiplex real-time RT-PCR assays for the detection and differentiation of foot-and-mouth disease virus and Seneca Valley virus. Yin Wang, Amaresh Das, Wanglong Zheng, Elizabeth Porter, Lizhe Xu, Lance Noll, Xuming Liu, Kimberly Dodd, Wei Jia, Jianfa Bai. TBED 2020 Mar;67(2):604-616.

“The history of foot-and-mouth disease virus serotype C: the first known extinct serotype?” Paton, David; Di Nardo, Antonello; Knowles, Nick; Wadsworth, Jemma; Pituco, Maristela; Cosivi, Ottorino; Rivera, Alejandro; Bakkali-Kassimi, Labib; Brocchi, Emiiana; de Clercq, Kris; Carrillo, Consuelo; Maree, Francois; Singh, Raj; Vosloo, Wilna; Park, Min; Sumption, Keith; Ludi, Anna; King, Donald. Virus Evolution-2020-109

b) International conferences: 2
Virtual Workshop on OIE officially recognized animal disease status, focus on Foot and Mouth Disease status maintenance, reconfirmation, suspension and recovery
Electronic meeting, December 1-3, 2020

Virtual OIE/FAO FMD Diagnostics Reference Laboratory Network, Dec 1-2, 2020

c) National conferences: 1
Virtual United States Animal Health Association (USAHA-AAVDL) annual meeting 2020

d) Other:
(Provide website address or link to appropriate information) 0

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries
To recommend the prescribed and alternative tests or vaccines as OIE Standards

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

No

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO 17025 diagnostics	2526-04 Biological testing.pdf
ISO 17043 proficiency	2526-08 PT provider.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Antigen capture ELISA	A2LA-ILAC
Virus Isolation	A2LA-ILAC
Virus Neutralization	A2LA-ILAC
3 ABC ELISA	A2LA-ILAC
real time RT-PCR	A2LA-ILAC
VIAA-AGID	A2LA-ILAC

17. Does your laboratory maintain a “biorisk management system” for the pathogen and the disease concerned?

Yes

(See Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

No

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
Virtual Workshop on OIE officially recognized animal disease status, focus on Foot and Mouth Disease status maintenance, reconfirmation, suspension and recovery	12/20	virtual	speaker	FADDL support to the Americas in case of FMDV outbreak

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Yes

Purpose of the proficiency tests: [1]	Role of your Reference Laboratory (organiser/ participant)	No. participants	Participating OIE Ref. Labs/ organising OIE Ref. Lab.
FMD and SVD combined proficiency test	participant	4	Organized by WRLFMD from Pirbright, UK

[1] *validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.*

22. 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?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at:
http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing see point 1.3

Purpose for inter-laboratory test comparisons[1]	No. participating laboratories	Region(s) of participating OIE Member Countries
Organized FMD rRT-PCR Proficiency test for the National Animal Health Laboratory Network in US	47	☐Africa ☐Americas ☐Asia and Pacific ☐Europe ☐Middle East

ToR 12: To place expert consultants at the disposal of the OIE

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

No

25. Additional comments regarding your report: