

## OIE Reference Laboratory annual reports (RINDERPEST)

### Activities in 2020

Name (including Title) of Head of Laboratory (Responsible Official):

Dr. Kimberly Dodd, Supervisory Veterinary Medical Officer, Director of Foreign Animal Disease Diagnostic Laboratory (FADDL), 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, FADDL

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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 OIE Manual<br>(Yes/No) | Total number of tests performed last year |                 |
|---------|-----------------|-------------------------------------|---|-----------------|
|         |                 |                                     | Nationally                                | Internationally |

|     |         |     |    |  |
|-----|---------|-----|----|--|
| PPR | rRT-PCR | Yes | 16 |  |
|     |         |     |    |  |
|     |         |     |    |  |
|     |         |     |    |  |
|     |         |     |    |  |

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 |
|---|-------------------------|----------------------------|-------------------------------------|--|--|
| Non-infectious PPRV PT panels and positive controls | PPR RRT-PCR             | Produced                   | >50 panels and PAC/PEC controls     |  |  |
|   |                         |                            |                                     |  |  |

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, for example:

John Lucas, Diane Holder, Kimberly Dodd, Jia Wei (2019). A versatile dual-use RT-PCR control for use in assays for the detection of peste des petits ruminants virus. J Virol Methods. 2020 Mar;277:113799. doi: 10.1016/j.jviromet.2019.113799

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  |
|--|--|
| Prepared non-infectious PPRV PT panels and positive controls | Prepared 50 PPRV PT panels and PAC and PEC controls for staff PT and safety testing biological materials |
|  |  |

**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 use the National Veterinary Services Laboratory (NVSL) Quality Management System (QMS). The system adopted ISO/IEC 17025:2017 for Diagnostics and ISO/IEC 17042:2010 for Proficiency (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 an A2LA accredited lab. The following tests are accredited by the A2LA:

- a. Agar Gel Immunodiffusion (AGID)
- b. Complement Fixation Test
- c. Direct Fluorescent Antibody
- d. DNA and RNA Extraction
- e. Enzyme Linked Immunosorbent Assay (ELISA)
- f. Immunohistochemistry (IHC)
- g. Immunoperoxidase (IP)
- h. Real-time PCR
- i. Virus Isolation (VI)
- j. 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 |
|-----------------|----------------------------------|---|
| No              |                                  |   |
|                 |                                  |   |
|                 |                                  |   |
|                 |                                  |   |

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 |
|--|------------|---|--------------------------------------|---|
| Oganizer   | Rinderpest | Rinderpest PT. On going - working with PANVAC on the documents for import authorization of the PT panels and controls | 1                                    | Africa  |
|  |            |   |                                      |   |
|  |            |   |                                      |   |

### 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         |
|--|------------|----------------|--------------------------------------|---------------------------------|
| Participated Rinderpest Holding Facility Network Meeting | 02/06/2020 | Teleconference | Speaker/presenter                    | Updates of FAO/OIE RHF at FADDL |
| Participated Rinderpest Holding Facility Network Meeting | 10/20/2020 | Teleconference | Speaker/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 X

No

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

Yes X

No

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

Yes

No X

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 X

No

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

Yes X

No

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

Yes X

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 |
|---------|-------------------|-------------|
| No      |                   |             |
|         |                   |             |

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):