

## WOAH Reference Laboratory annual reports (RINDERPEST)

### Activities in 2022

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

Dr Bryan Charleston, Institute Director

Name (including Title and Position) of WOAH Reference Expert:

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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? **No**
  - b. For closely related diseases or pathogens? **Yes, PPRV (see separate report on PPRV-related activities)**

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

2. Did your laboratory produce, supply, or import standard reference reagents officially recognised by WOAHA for the specified disease or for closely related diseases? **NO**

| Type of Reagent Available | Related diagnostic test | Produced/Supplied/Imported | Amount supplied nationally (ml, mg) | Amount supplied internationally (ml, mg) | Name of recipient WOAHA Members |
|---------------------------|-------------------------|----------------------------|-------------------------------------|--|---------------------------------|
|                           |                         |                            |                                     |  |                                 |
|                           |                         |                            |                                     |  |                                 |

3. Did your laboratory supply, exchange or receive standard reference reagents and/or other diagnostic reagents for the specified disease **NO**

| Type of reagent | Related diagnostic test | Supplied by your lab, exchanged or received | Amount | Name of recipient or supplier Member |
|-----------------|-------------------------|---|--------|--------------------------------------|
|                 |                         |   |        |                                      |
|                 |                         |   |        |                                      |

4. Did your laboratory provide expert advice in technical consultancies on the request of a WOAHA Member for the specified disease or for closely related diseases? **Yes. For PPRV-related activities, see PPRV-specific report**

| Name of the WOAHA Member receiving the technical consultancy | Purpose  | How the advice was provided   |
|--|--|---|
| UK   | Expert advice for the Risk Assessment on reappearance of rinderpest, carried out by scientists from RVC and APHA | Zoom-based conference following completion of detailed quantitative risk assessment |
|  |  |   |

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]

**Information Provided here for RPV: for PPR, see PPR-specific report**

(a) Publications in peer-reviewed journals: none on rinderpest

(b) International Conferences: none involving rinderpest

(c) National conferences: none this year

(d) Other: none

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

☐ Yes

☒ No

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 WOAHA Reference Expert?

| Activity                              | Description   |
|---------------------------------------|---|
| Laboratory enquiries, QA, diagnostics | Dr Carrie Batten continues to manage lab activities related to RPV and acts as secretariat for the RHF network. |
|                                       |   |

## 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.

UKAS accreditation to ISO/IEC 17025

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.

Real-time RT-PCR for rinderpest virus – UKAS ISO/IEC 17025

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

☒ Yes

☐ 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 WOA H Manual (Yes/No) | Total number of tests performed last year   |
|------------------------------|------------------------------------|---|
| Real-time RT-PCR for RPV RNA | Yes                                | 0 no PT received however we did run the PCR to determine if there was any RPV contamination of historical PPRV stocks ~20 |
|                              |                                    |   |
|                              |                                    |   |
|                              |                                    |   |

13. Did your laboratory produce vaccines for the specified disease or similar diseases? **NO**

| Disease | Amount supplied nationally or internationally |
|---------|---|
|         |   |
|         |   |

14. Did your laboratory organise or participate in inter-laboratory proficiency tests with any other laboratories for the specified disease or similar diseases? **Yes, see PPR-specific report**

| Role of your laboratory<br>(organiser or participant) | Disease | Test | Number of participating<br>laboratories | Regions of participating<br>WOAH Members |
|---|---------|------|---|--|
|   |         |      |   |  |
|   |         |      |   |  |
|   |         |      |   |  |

## D: Networks and Linkages

15. Did your laboratory organise or participate in scientific meetings for the specified disease? **No relevant meetings this year**

| Title of event | Date | Location | Role (organiser, speaker,<br>presenter) | Title of work presented |
|----------------|------|----------|---|-------------------------|
|                |      |          |   |                         |
|                |      |          |   |                         |
|                |      |          |   |                         |

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

☒ Yes

☐ No

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

☒ Yes

☐ No

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

☒ Yes

☐ No

19. Did your laboratory carry out activities to raise awareness and improve capability for this disease in other Members? **No**

| Description of activity | Date | Member countries |
|-------------------------|------|------------------|
|                         |      |                  |
|                         |      |                  |
|                         |      |                  |

## 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?

All materials are stored, and potentially infectious material would be handled, at UK SAPO4, approximately equivalent to BSL3+ or BSL3-Ag.

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? **For rinderpest, NO. For PPR, see PPR-specific report**

| Disease | Diagnostic Method | Description |
|---------|-------------------|-------------|
|         |                   |             |
|         |                   |             |

25. Did your laboratory participate in international scientific studies in collaboration with WOAHA Members other than your own? **For rinderpest, NO. For PPR, see PPR-specific report**

| Title of study | Duration | Purpose of study | Partners (Institutions) | WOAH Members Involved other than your country |
|----------------|----------|------------------|-------------------------|---|
|                |          |                  |                         |   |
|                |          |                  |                         |   |

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 or a similar pathogen? **For rinderpest, see below. For PPR, see PPR-specific report**

| Title of Project or Contract                    | Scope                                      | Name(s) of relevant WOAHA Reference Laboratories |
|---|--|--|
| Full genome sequencing of archived RPV isolates | Ongoing joint analysis of genome sequences | RPV Reference Laboratory, CIRAD, France          |
|   |  |  |

27. In exercising your activities, have you identified any regulatory research needs\* relevant for WOAHA? 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):

Note that Pirbright is also a RHF; its status as a RHF was reviewed in October this year with a favourable report. Dr Carrie Batten acts as the secretariat for the global RHF network and organises regular catch up meetings, every 6 months; in 2022 this was virtual in July, with the next one scheduled for 1<sup>st</sup> February 2023.