

# OIE Reference Laboratory Reports Activities

## *Activities in 2020*

**This report has been submitted : 2021-01-19 23:06:06**

<b>Name of disease (or topic) for which you are a designated OIE Reference Laboratory:</b>	Classical swine fever
<b>Address of laboratory:</b>	CSIRO Australian Centre for Disease Preparedness 5 Portarlington Road East Geelong Victoria 3220 AUSTRALIA
<b>Tel.:</b>	+61 3 5227 5000
<b>Fax:</b>	+61 3 5227 5555
<b>E-mail address:</b>	trevor.drew@csiro.au
<b>Website:</b>	<a href="https://www.csiro.au">https://www.csiro.au</a>
<b>Name (including Title) of Head of Laboratory (Responsible Official):</b>	Prof Trevor Drew Director
<b>Name (including Title and Position) of OIE Reference Expert:</b>	Prof Trevor Drew Director
<b>Which of the following defines your laboratory? Check all that apply:</b>	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	
		Nationally	Internationally
Indirect diagnostic tests			
cELISA	Yes	607	299
NPLA	Yes	2	3
Direct diagnostic tests			
Real-time PCR	Yes	439	452

**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?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
CSF positive controls	CSF real-time PCR	Produced in-house	0	16ml	20 - Australia, Cambodia, Indonesia, Lao PDR, Myanmar, Malaysia, Philippines, Thailand, Viet Nam, Singapore, Bhutan, Nepal, Bangladesh, Pakistan, India, Sri Lanka, china, Chinese Taipei, Mongolia, New Caledonia	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

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?

No

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

No

***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?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
PAPUA NEW GUINEA	March	14	0
PAPUA NEW GUINEA	May	97	0
PAPUA NEW GUINEA	June	393	0
PAPUA NEW GUINEA	September	137	0
PAPUA NEW GUINEA	December	49	0

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

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
PAPUA NEW GUINEA	Diagnostic testing, advice on sampling, laboratory and field diagnostics and establishing PCR capability	In loco and remote assistance (web/phone, email)
INDONESIA	Laboratory diagnostics - virus isolation	Remote assistance (email)

***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?

No

***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?

Yes

If the answer is yes, please provide details of the data collected:

Epizootiological data was collected as part of an investigation on the ASFV outbreak in Papua New Guinea from March 2020, including diagnostic testing for delimiting surveillance and molecular characterization of viruses detected. Classical swine fever was NOT detected as part of this exercise.

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:

The epizootiological data was passed to the competent authority of Papua New Guinea and more widely disseminated in the context of African swine fever - CSF was not detected. See ASF report from ACDP.

**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: 0

b) International conferences: 1

Williams DT. 'Quality control, biosafety and biosecurity in the veterinary diagnostic laboratory.' OIE Regional virtual training on swine disease laboratory diagnosis, 4/11/2020. Webinar.  
<https://rr-asia.oie.int/en/events/oie-regional-virtual-training-on-swine-disease-laboratory-diagnosis/>

c) National conferences: 0

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 & ISO 17043	ISO 17043 and 17025 Certificates.pdf
ISO 9001	ISO9001 Certification Expiry 30-11-2022.pdf
ISO 14001	ISO14001 Certification Expiry 30-11-2022.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Testing for sterility and freedom from contamination of biological materials intended for veterinary use – Innocuity (Bacterial culture - Biphasic medium, mycoplasma broth; Dark field microscopy; Embryonated egg culture; Enzyme linked immunosorbent assay (ELISA); Fluorescent antibody test; Haemagglutination; PCR - Quantitative (qPCR); Polymerase chain reaction (PCR); Virus isolation)	NATA (ILAC affiliated)
Detection and identification of viruses (Transmission electron microscopy (TEM); Scanning electron microscopy (SEM))	NATA (ILAC affiliated)
Testing for sterility and freedom from contamination of biological materials intended for veterinary use – Innocuity (Embryonated egg culture; Enzyme linked immunosorbent assay (ELISA); Fluorescent antibody test; Bacterial culture - Biphasic medium, mycoplasma broth; Dark field microscopy; PCR - 16S Universal; Virus isolation; Haemagglutination; Indirect fluorescent antibody; Polymerase chain reaction (PCR); PCR – Quantitative (qPCR))	NATA (ILAC affiliated)
Microbiology - Serology of infection – Microbial antibody and/or antigen detection and/or quantitation (Enzyme linked immunosorbent assay (ELISA))	NATA (ILAC affiliated)
Microbiology - Serology of infection - Microbial antibody and/or antigen detection and/or quantitation (Neutralising peroxidase linked assay; Fluorescent antibody virus neutralisation test)	NATA (ILAC affiliated)
Detection and identification of viruses (Cell culture; Cultural)	NATA (ILAC affiliated)
Accreditation No: 13546 (scope last change 2020)	

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
OIE Regional virtual training on swine disease laboratory diagnosis	11/20	Online	Speaker	Quality control, biosafety and biosecurity in the veterinary diagnostic laboratory.'

**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?

No

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 <sup>1</sup>	No. participating laboratories	Region(s) of participating OIE Member Countries
Swine Disease - Harmonising existing test methods (specify: PCR for CSF/ASF/PRRS/SIV detection)	30	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Detection of Terrestrial and Avian diseases by Australian & New Zealand laboratories: Classical Swine Fever Virus	13	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> 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?

Yes

Kind of consultancy	Location	Subject (facultative)
Mission lead - visit to country applying for Official Freedom	EU country Jan 2020	Visits to farms, abattoirs, laboratories, hunting grounds, veterinary offices
Review of OIE Terrestrial Manual Management of Veterinary Laboratories	Online Oct 2020	Review and additions to Chapter
Member, OIE Ad Hoc Group for CSF	Virtual meeting Dec 2020	Review of dossiers from countries applying for official freedom
Technical advice to National Authority	online	Review of Code Commission chapters (via OIE Australia)

25. Additional comments regarding your report:

ACDP was only awarded status as an OIE Reference Laboratory for CSF in mid-2020. Due to COVID-19, ACDP has worked on limited operational capacity since March 2020 (for example, adopting roster arrangements for staff site access, reduced site access to ensure physical distancing, no domestic or international travel and visitors unable to attend site for most of the year). This has significantly limited ACDP's capacity to carry out planned research and conduct training and has limited some types of diagnostic submissions to the laboratory.



