# OIE Reference Laboratory Reports Activities

## *Activities in 2019*

### This report has been submitted : 2020-01-24 05:10:20

| | |
|---|---|
| **Name of disease (or topic) for which you are a designated OIE Reference Laboratory:** | Infection with abalone herpesvirus |
| **Address of laboratory:** | CSIRO Australian Animal Health Laboratory 5 Portarlington Road Private Bag 24 (Ryrie Street) Geelong 3220, Victoria AUSTRALIA |
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| **Name (including Title) of Head of Laboratory (Responsible Official):** | Prof Trevor Drew - Director |
| **Name (including Title and Position) of OIE Reference Expert:** | Dr Mark Crane - Senior Principal Research Scientist, AAHL Fish Diseases Laboratory |
| **Which of the following defines your laboratory? Check all that apply:** | Governmental<br>Research |

### *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 |
| Nil | N/A | 0 | 0 |
| Direct diagnostic tests | | Nationally | Internationally |
| AbHV ORF49 qPCR | Yes | 248 | 0 |
| AbHV ORF66 qPCR | Yes | 248 | 0 |
| AbHV ORF77 qPCR | Yes | 29 | 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?

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 |
|---|---|---|---|---|---|---|
| EtOH-fixed infected abalone tissue homogenate | AbHV ORF49 | 25 ml | 0 ml | 1 ml | 1 | ☐Africa ☒Americas ☐Asia and Pacific ☐Europe ☐Middle East |
| EtOH-fixed infected abalone tissue homogenate | AbHV ORF66 | 25 ml | 0 ml | 1 ml | 1 | ☐Africa ☒Americas ☐Asia and Pacific ☐Europe ☐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?

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?

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: |
| --- |
| 1452 archived abalone samples collected from farms and the marine environment around Tasmania during the period 2008-2012 were analysed using the AbHV ORF49, AbHV ORF66 and AbHV ORF77 qPCR tests for the purpose of test validation for surveillance purposes. |

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

Yes

| If the answer is yes, please provide details of the data collected: |
| --- |
| Results of the analysis of samples described in (11) above and as detailed in the manuscript below. |

**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
Caraguel C, Ellard KA, Crane MStJ, Williams LM, Mohr PG, Hoad J and Moody NJG. 2019. Evaluation of the diagnostic accuracy of qPCR primer sets to demonstrate freedom from abalone herpesvirus in apparently healthy populations of Australian abalone. Dis Aquat Org 136: 199-207.

Neave MJ, Corbeil S, McColl KA, Crane MStJ. 2019. Investigating the natural resistance of blackfoot paua Haliotis iris to abalone viral ganglioneuritis using whole transcriptome analysis. Dis Aquat Org 135: 107-119.

b) International conferences: 1

Corbeil S, Sarker S, Helbig K. (2019) Evaluation and comparison of the gene expression in AVG resistant paua and AVG susceptible hybrid abalone (greenlip x blacklip) upon immersion challenge with HaHV. Fifth FRDC Australasian Scientific Conference on Aquatic Animal Health & Biosecurity, Cairns, 8-12 July 2019.

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) |
|---|---|
| ISO9001 | BSI Certificate 9001 issue 2018.pdf |
| ISO14001 | BSI Certificate 14001 issue 2018.pdf |
| ISO17043 & ISO17025 | Certification 17043 and NATA Scope of Accreditation 17025.pdf |

16. Is your quality management system accredited?

Yes

| Test for which your laboratory is accredited | Accreditation body |
|---|---|
| AbHV ORF49 qPCR | NATA |
| AbHV ORF66 qPCR | NATA |
| AbHV ORF77 qPCR | NATA |
| AbHV 1617 PCR | NATA |

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?

No

## *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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

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?

Not applicable (Only OIE Reference Lab. designated for disease)

## *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 |
|---|---|---|
| Determining a laboratory's capability to conduct specific diagnostic tests | 8 | ☐Africa<br>☐Americas<br>☒Asia and Pacific<br>☐Europe<br>☐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) |
|---|---|---|
| OIE Ad Hoc Group (by email) | not applicable | OIE Ad Hoc Group on susceptibility of fish species to infection with OIE listed diseases |

25. Additional comments regarding your report: