WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted : 12 juin 2024 09:46

**Laboratory Information**

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Acute hepatopancreatic necrosis disease |
| Address of laboratory: | No.500, Sec. 3, Anming Rd., Annan Dist., Tainan City 709, Taiwan |
| Tel: | +886-6 384 24 48 |
| E-mail address: | wanghc@mail.ncku.edu.tw |

**Name (including Title) of Head of Laboratory (Responsible Official):**
Dr. Han-Ching Wang

**Name (including Title and Position) of WOAH Reference Expert:**
Dr. Han-Ching Wang

**Which of the following defines your laboratory? Check all that apply:**
Academic institution

**TOR1: DIAGNOSTIC METHODS**

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

<table>
<thead>
<tr>
<th>Diagnostic Test</th>
<th>Indicated in WOAH Manual (Yes/No)</th>
<th>Total number of test performed last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indirect diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IQ2000 (PCR)</td>
<td>Yes</td>
<td>633</td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real-time PCR</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

**TOR2: REFERENCE MATERIAL**

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

   No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOAH Members?

   No

4. Did your laboratory produce vaccines?

   No

5. Did your laboratory supply vaccines to WOAH Members?

   No

**TOR3: NEW PROCEDURES**

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

   No

7. Did your laboratory validate diagnostic methods according to WOAH Standards for the designated pathogen or disease?
No

8. Did your laboratory develop new vaccines for the designated pathogen or disease?
   No

9. Did your laboratory validate vaccines according to WOAH Standards for the designated pathogen or disease?
   No

**TOR4: DIAGNOSTIC TESTING FACILITIES**

10. Did your laboratory carry out diagnostic testing for other WOAH Members?
    No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAH Member?
    Yes

<table>
<thead>
<tr>
<th>NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY</th>
<th>PURPOSE</th>
<th>HOW THE ADVICE WAS PROVIDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOREA (REP. OF)</td>
<td>AHPND-related scientific issues</td>
<td>Remote/in loco</td>
</tr>
<tr>
<td>FIJI</td>
<td>Dr. Malan Bandara Veterinarian</td>
<td>Remote/in loco</td>
</tr>
<tr>
<td></td>
<td>Biosecurity Authority of Fiji</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biosecurity House, Nadi Airport,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fiji AHPND-related scientific</td>
<td></td>
</tr>
<tr>
<td></td>
<td>issues</td>
<td></td>
</tr>
</tbody>
</table>

**TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES**

12. Did your laboratory participate in international scientific studies in collaboration with WOAH Members other than the own?
    Yes

<table>
<thead>
<tr>
<th>Title of the study</th>
<th>Duration</th>
<th>PURPOSE OF THE STUDY</th>
<th>PARTNERS (INSTITUTIONS)</th>
<th>WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPND/shrimp interaction</td>
<td>3 years</td>
<td>To find the AHPND toxin targeting mechanisms</td>
<td>Chulalongkorn University, Thailand</td>
<td>THAILAND</td>
</tr>
</tbody>
</table>

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAH?
    No

**TOR6: EPIZOOLOGICAL DATA**

14. Did your Laboratory collect epidemiological data relevant to international disease control?
    Yes

**IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:**

We collected and analyzed AHPND-related samples

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?
    Yes

**IF THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:**

We published our epidemiological findings for AHPND as scientific papers.

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

   a) Articles published in peer-reviewed journals:

   7


b) International conferences:


c) National conferences:

0

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

1 International Center for the Scientific Development of Shrimp Aquaculture
https://sites.google.com/view/icdsa/

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH Members?

Yes

a) Technical visit : 2
b) Seminars : 2
c) Hands-on training courses: 0

d) Internships (>1 month) 0

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNITED STATES OF AMERICA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?
   Yes

<table>
<thead>
<tr>
<th>Quality management system adopted</th>
<th>Certificate scan (PDF, JPG, PNG format)</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPND PCR detection</td>
<td>Taiwan Accreditation Foundation</td>
<td>2023-2026 ISO17025.pdf</td>
</tr>
</tbody>
</table>

19. Is your quality management system accredited?
   Yes

<table>
<thead>
<tr>
<th>Test for which your laboratory is accredited</th>
<th>Accreditation body</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHPND PCR detection</td>
<td>Taiwan Accreditation Foundation</td>
</tr>
</tbody>
</table>

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

   Our system follows the regulations of ISO17025:2017

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOAH?
   No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOAH?
   No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease?
   Yes

24. Do you network (collaborate or share information) with other WOAH Reference Laboratories designated for the same pathogen?
   No

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same pathogen?
   No

26. Did your laboratory collaborate with other WOAH Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?
   No

TOR11: OTHER INTERLABORATORY PROFICIENCY TESTING

27. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than WOAH Reference Laboratories for the same pathogen?
   No

TOR12: EXPERT CONSULTANTS

28. Did your laboratory place expert consultants at the disposal of WOAH?
   Yes

<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACTORIAL/VE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIE expert</td>
<td>remote</td>
<td>OIE Aquatic Manual progress updated in 2023 / Request for assistance for the chapter on infection with acute hepatopancreatic necrosis disease (AHPND)</td>
</tr>
</tbody>
</table>

29. Additional comments regarding your report:
No