WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted: 25 avril 2023 13:04

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.: | +886-6-384-2448 |
| E-mail address: | wanghc@mail.ncku.edu.tw |
| Website: | https://sites.google.com/gs.ncku.edu.tw/icdsa-zh/%E9%A6%96%E9%A0%81 |
| 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>Nationally: 987</td>
</tr>
<tr>
<td>Real-time PCR</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**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>ISRAEL</td>
<td>AHPND-related scientific issues</td>
<td>Remote/in loco</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>
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:

2

b) International conferences:

8


c) National conferences:

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

<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>A</td>
<td>Israel</td>
<td>1</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>2020-2023 ISO17025 認證證書 (英文).pdf</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 17025:2017</td>
<td>pdf</td>
<td></td>
</tr>
</tbody>
</table>

19. Is your quality management system accredited?
Yes
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. Are you a member of a network of 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?
Yes

<table>
<thead>
<tr>
<th>Purpose for inter-laboratory test comparisons1</th>
<th>Role of your reference laboratory (organiser/participant)</th>
<th>No. participating laboratories</th>
<th>Region(s) of participating WOAH Member Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR for AHPND detection</td>
<td>Organiser</td>
<td>1</td>
<td>Asia and Pacific</td>
</tr>
</tbody>
</table>

**TOR12: EXPERT CONSULTANTS**

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

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1. For inter-laboratory test comparisons, purposes may include: 
   a. To compare test results from different laboratories.
   b. To assess the performance of diagnostic methods.
   c. To evaluate the accuracy and consistency of test results.
   d. To enhance the credibility and reliability of diagnostic results.

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<table>
<thead>
<tr>
<th>KIND OF CONSULTANCY</th>
<th>Location</th>
<th>SUBJECT (FACULTATIVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OIE expert</td>
<td>remote</td>
<td>OIE Aquatic Manual progress update / 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