WOAH Reference Laboratory Reports Activities 2022

Activities in 2022
This report has been submitted: 4 février 2023 00:18

Laboratory Information

| Name of disease (or topic) for which you are a designated WOAH Reference Laboratory: | Enteric septicaemia of catfish (Edwardsiella ictaluri) |
| Address of laboratory: | College of Veterinary Medicine, 240 Wise Center Drive, Mississippi State, MS 39762 USA |
| Tel.: | 16623251202 |
| E-mail address: | hanson@cvm.msstate.edu |
| Website: | |
| Name (including Title of Head of Laboratory (Responsible Official)): | Larry A. Hanson, PhD Professor, Director of the Fish Diagnostic Laboratory |
| Name (including Title and Position) of WOAH Reference Expert: | Larry A. Hanson, PhD Professor, Director of the Fish Diagnostic Laboratory |
| 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>Direct diagnostic tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bacterial culture and identification</td>
<td>yes</td>
<td>194</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?
No

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>Improving Biosecurity: A Science-based Approach to Manage Fish Disease Risks and Increase the Socio-economic</td>
<td>3 years</td>
<td>Evaluate current Aquaculture practices and improve biosecurity in</td>
<td>World Fish, University of Ibadan</td>
<td>NIGERIA</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:**

As part of the research project in Nigeria, we helped teach field personnel in Nigeria about health management. They collected management and outbreak information which will be used in our biosecurity plan.

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

No

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:

0

b) International conferences:

2

Marchant, A., C. Baugher, L. Ford, A. Peterman, L. Petrie-Hanson, L. Hanson. Sublethal microcystin LR exposure predisposes channel catfish to bacterial diseases. 9th International Symposium on Aquatic Animal Health. September 5–8, 2022, Santiago, CHILE

Hanson, L.A. "Examples of global, national and regional AMR and biosecurity activities at Mississippi State University". in Preventing Antimicrobial Resistance Together; Go blue for AMR. Virtual webinar of the FAO Reference Centers on AMR and Aquatic Biosecurity. FAO Zoom meeting. 30 November 2022

c) National conferences:

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

**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 :
   b) Seminars : 1
   c) Hands-on training courses:
   d) Internships (>1 month)

<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>b</td>
<td>Nigeria</td>
<td>20</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>
</tr>
</thead>
</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>Bacterial culture and identification</td>
<td>The American Association of Veterinary Laboratory Diagnosticians</td>
</tr>
<tr>
<td>Antibiotic Sensitivity testing</td>
<td>The American Association of Veterinary Laboratory Diagnosticians</td>
</tr>
</tbody>
</table>

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

**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?
   Not applicable (only WOAH Reference Laboratory designated for the disease)

24. Are you a member of a network of WOAH Reference Laboratories designated for the same pathogen?
   Not applicable (Only WOAH Reference Laboratory designated for the disease)

25. Did you organise or participate in inter-laboratory proficiency tests with WOAH Reference Laboratories designated for the same...
pathogen? Not applicable (Only WOAH Reference Laboratory designated for the disease)

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? Not applicable (Only WOAH Reference Laboratory designated for the disease)

**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? No

29. Additional comments regarding your report: No