WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 21 juin 2024 17:51

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:	PO Box 6100
Tel.:	16623251202
E-mail address:	hanson@cvm.msstate.edu
Website:	https://www.vetmed.msstate.edu/clinics-locations/lab-system/diagnostic-and-aquatic-labs
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

Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Direct diagnostic tests		Nationally	Internationally
Bacterial culture and Identification		119	76
qPCR		4	

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

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAH MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Improving Biosecurity: A Science-based Approach to Manage Fish Disease Risks and Increase the Socio-economic Contribution of the Nigerian Catfish and Tilapia Industries	3 years	Evaluate current Aquaculture practices and improve biosecurity in Nigerian Aquaculture and evaluate the cause of disease outbreaks in African catfish	World Fish (Malaysia), University of Ibadan (Nigeria)	NIGERIA

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:
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 were be used in the suggested biosecurity plans.

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:

2

Khor Li Imm, L., O.A. Bodunde, O.A., R. Wills, L. Hanson, O. K. Adeyemo, O. O. Aina, S. A. Alarape, J. Delamare-Debouteville, C. V. Mohan. Understanding aquaculture biosecurity to improve catfish disease management in Ogun and Delta states, Nigeria. Aquaculture (In press- published on line 2-8-24) https://doi.org/10.1016/j.aquaculture.2024.740664

Kumar, Ganesh, Carole Engle, Suja Aarattuthodi, Jonathan van Senten, Shraddha Hegde, Lester Khoo, Larry Hanson, Mark Peterman, and Larry Dorman. (2024) Economic impact of Edwardsiellosis on the U.S. catfish industry. Aquaculture Economics & Management, 1–24. https://doi.org/10.1080/13657305.2024.2319083

b) International conferences:

3
Hanson, L.A. "Drivers of disease emergence in aquaculture and AMR" in "Challenges in aquatic AMR mitigation and possible solutions" FAO Rome Italy June 27, 2023.
Hanson, L.A. "Fighting AMR with research service and extension." Designation of FAO Reference Centres on Antimicrobial Resistance and Aquaculture Biosecurity. FAO Rome, Italy, June 26, 2023.
Hanson, L.A. "Surveys and sampling of the aquaculture industry in Nigeria reveal the need to enhance the safety and judicious use of antimicrobials" in FAO World Antimicrobial Resistance Awareness Week Webinar "Avoiding AMR together: Ensuring healthy and safe aquatic foods" November 27, 2023 (Over 200 attendees).

c) National conferences:

1
Hanson, Larry, Robert Wills, Olanike K. Adeyemo, Oluwasanmi O. Aina, Selim Alarape, Olusola Bodunde, Rohana Subasinghe, Jerome Delamare-Debouteville, Laura Khor, Mohan Chadag. Understanding aquaculture biosecurity to improve catfish disease management in Ogun and Delta states, Nigeria. Aquaculture America, Feb 23-26, 2023. New Orleans, LA p239.

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?

No

TOR8: QUALITY ASSURANCE

18. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)	
ISO 17025	PDF	QAU-F-043 - MVRDLS Letter of Quality Assurance RevFeb20.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Bacterial culture and identification	American Society of Veterinary Diagnosticians
Antibiotic Sensitivity Testing	American Society of Veterinary Diagnosticians

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. Do you network (collaborate or share information) with other 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