WOAH Reference Laboratory Reports Activities 2023
Activities in 2023
This report has been submitted : 12 juin 2024 00:04

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Channel catfish virus disease
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
Cell culture isolation		12	0
qPCR		7	0

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?

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOAH MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
cell line	cell culture isolation	Produced	2 flasks- T25	2 flasks- T25	1	NIGERIA,

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	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 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:

0

c) National conferences:

2

5. Dharan, V., J. Stilwell, M. Griffin, P. Allen, and L. Hanson. Investigation into the portals of entry and disease progression of Ictalurid herpesvirus 1 in channel catfish, Ictalurus punctatus, blue catfish, I. furcatus, and their hybrid cross using in situ hybridization. American Society for Microbiology South Central Branch Meeting– Annual Meeting. Little Rock, AR Nov 9-11, 2023. P34.

10. Venugopalan, Arun, Matt Griffin, Larry Hanson, David Wise, Cynthia Ware, Kuttichantran Subramaniam, Geoffrey Waldbieser, Lorelei Ford, Andy Perkins, Lester Khoo and Thomas Waltzek. Genome sequencing, annotation, and phylogenomic analysis of channel catfish virus field isolates from farm-raised catfish in the southeastern United States from 1970-2019. 46th Annual Eastern Fish Health Workshop. Atlantic Beach, NC, March 27-31, 2023.

13. Hanson, Larry, Robert Wills, Olanike K. Adeyemo, Oluwasanmi O. Aina, Selim Alarape, Olusola Bodunde, Rohana Subasinghe, Jerome Delamare-Deboutteville, 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?

Yes

a) Technical visit : 0

b) Seminars : 0

c) Hands-on training courses: 1

d) Internships (>1 month) 0

Type of technical training provided (a, b, c or d)	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
C	NIGERIA	2

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	QAU043 - MVRDLS Letter of Quality Assurance RevSept13 (2019_04_02 02_16_14 UTC).pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Cell culture and virus isolation	American Association of Veterinary Laboratory Diagnosticians

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

Yes

All labs in the system are AAVLD accredited and have approved biorisk management protocols and internal auditing.

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