

WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 25 avril 2023 13:15

Laboratory Information

Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Infection with white spot syndrome virus
Address of laboratory:	Chinese Academy of Fishery Sciences 106 Nanjing Road, Qingdao Shandong 266071 CHINA (PEOPLES REP. OF)
Tel.:	+86 53285823062
E-mail address:	zhangql@ysfri.ac.cn
Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Qingli Zhang, Senior Researcher
Name (including Title and Position) of WOA Reference Expert:	Dr. Qingli Zhang, Senior Researcher
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 WOA Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Real-time PCR	Yes	425	0
Histopathology	Yes	57	0
Transmission electron microscopy	Yes	29	0
Direct diagnostic tests		Nationally	Internationally

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
WSSV nucleic acid	PCR	provide	10 ⁵	0	1	Asia and Pacific

4. Did your laboratory produce vaccines?

Not applicable

5. Did your laboratory supply vaccines to WOAH Members?

Not applicable

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

NAME OF THE WOAH MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
ITALY	It is proposed to pay attention to the disease risk of transboundary aquatic animals in the practice of national and regional PMP/AB in the meeting of Food and Agriculture Organization of the United Nations.	Meeting communication

VIETNAM	Improving the shrimp diagnostic capability and bioscurity implement ing level of the participants from eight Asia countries.	Training and Q&A in the Online Training Workshop on Modern Fishery Technologies for South East Asian Countries
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TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOA 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
OIE Regional Proficiency Testing Provider Training	21-25 February 2022	1. To provide information that enable participants to develop and operate PT programme that meet the needs of participating laboratories and fulfill the requirements of ISO/IEC 17043 2. To provide information that enable participants to coordinate national and sub-regional inter-laboratory comparisons	WOAH, ACDP	AUSTRALIA

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:

The WSSV carrying status of parent *Litopenaeus vannamei* introduced from abroad (mainly from Thailand, Ecuador) was analyzed. The surveillance area for WSD involved in 9 provinces of China. The major surveillance target species were shrimp. In total, WSSV was detected of samples with an average (within batch) positive rate of 28%.

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 submitted the data to Bureau of Fisheries, Ministry of Agriculture and Rural Affairs, P.R. China. The data will be published Report on the health status of Chinese aquatic animals in 2023 as annual data.

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:

b) International conferences:

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(1) Bing Yang, *Implementation of proficiency testing on aquatic animal pathogen in China. OIE Regional Proficiency Testing Provider Training. 21-25 February 2022. Tokyo, Qingdao, Australia*

(2) Qingli Zhang, *Host. 2022 Network science publicity activities to improve the understanding of drug resistance of aquaculture microorganisms. 24 November 2022. Qingdao, China.*

(3) Qingli Zhang, *The scientific research progress and industrial contribution of Yellow Sea Fishery Research Institute and China in prevention and control technology of mariculture diseases. FAO Aquaculture Antimicrobial Drug Resistance (AMR) and Biosecurity Reference Center Network Conference. 30 November 2022. Roma, Italy, Qingdao, China.*

(4) Qingli Zhang, *Aquaculture biosecurity practice and demonstration in China. (FAO) Technical Working Group Meeting on Progressive Management Approach to Aquaculture Biosafety (PMP/AB). 28 June-1 July 2022. Gaeta, Italy, Qingdao, China.*

c) National conferences:

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(1) Zhang Qingli. *Emerging disease of farmed shrimp and its biosafety risks (Speaker). National Symposium on Prevention and Control of Aquatic Animal Diseases, Beijing, China, 8-11, 2022 (offline and online).*

(2) Zhang Qingli. *Epidemiology and disease control of marine shrimp. Disease Society of the Chinese Academy of Fisheries Sciences, Beijing, 24-25 February 2022.*

(3) Yang B, Li C. *Report for IHNV testing in the National Laboratory Proficiency Testing 2022 Ministry of Agriculture and Rural Affairs, PRC*

(4) Yang B. *Comments on the report of the Aquatic Animal Health Standards. Session of OIE Aquatic Animal Health Code and WOA Manual of Diagnostic Tests for Aquatic Animals. 2 June 2022 and 23 November 2022, Qingdao, China.*

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

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(1) *Quarterly Aquatic Animal Disease Report of the Maricultural Organism Disease Control and Molecular Pathology Laboratory, Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences to the Ministry of Agriculture of China, the first quarter of 2022.*

(2) *Quarterly Aquatic Animal Disease Report of the Maricultural Organism Disease Control and Molecular Pathology Laboratory, Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences to the Ministry of Agriculture of China, the second quarter of 2022.*

(3) *Quarterly Aquatic Animal Disease Report of the Maricultural Organism Disease Control and Molecular Pathology Laboratory, Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences to the Ministry of Agriculture of China, the third quarter of 2022.*

(4) *Quarterly Aquatic Animal Disease Report of the Maricultural Organism Disease Control and Molecular Pathology Laboratory, Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences to the Ministry of Agriculture of China, the forth quarter of 2022.*

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

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

Yes

a) Technical visit :

b) Seminars : 2

c) Hands-on training courses:

d) Internships (>1 month)

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
b	80 countries	400
b	8	78

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	CNAS laboratory accreditation certificate.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
White spot virus: Diagnostic protocols for white spot disease Part2: Nested PCR method GB/T 28630.2-2012; Manual of Diagnostic Tests for Aquatic Animals (WOAH 2022) Chapter 2.2.8 White spot disease 4.3.1.2.4.1~4.3.1.2.4.3	China National Accreditation Service for Conformity Assessment, CNAS

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

Yes

P2 laboratory certification and laboratory related management system.

TOR9: SCIENTIFIC MEETINGS

21. Did your laboratory organise scientific meetings related to the pathogen in question on behalf of WOA?

No

22. Did your laboratory participate in scientific meetings related to the pathogen in question on behalf of WOA?

No

TOR10: NETWORK WITH WOA REFERENCE LABORATORIES

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

Yes

24. Are you a member of a network of WOA Reference Laboratories designated for the same pathogen?

No

25. Did you organise or participate in inter-laboratory proficiency tests with WOA Reference Laboratories designated for the same pathogen?

Yes

PURPOSE OF THE PROFICIENCY TESTS: 1	ROLE OF YOUR REFERENCE LABORATORY (ORGANISER/ PARTICIPANT)	NO. PARTICIPANTS	PARTICIPATING WOA REF. LABS/ ORGANISING WOA REF. LAB.
Asia-Pacific Laboratory Proficiency Testing Program	Participant	26	P.R.China, Burnei Darussalam, India, Indonesia, Iran, Malaysia, New Caledonia, Philippines, Sri Lanka, Thailand, Vietnam

26. Did your laboratory collaborate with other WOA 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 WOA Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOA Member Countries
To participate in Asia-Pacific Laboratory Proficiency Testing Program	Participant	26	Asia and Pacific
To organize National Testing Programme for Aquatic Animal Disease Laboratories in Aquatic Animal Epidemic Prevention System of China.	To organize National Testing Programme for Aquatic Animal Disease Laboratories in Aquatic Animal Epidemic Prevention System of China. To provide testing standards and samples for WSSV, and to analyze the results from the inter-laboratory test comparisons	167	Asia and Pacific

TOR12: EXPERT CONSULTANTS

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

29. Additional comments regarding your report:

No