

OIE Reference Laboratory Reports Activities

Activities in 2019

This report has been submitted : 2020-01-21 03:03:16

Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	White spot disease
Address of laboratory:	Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences #106, Nanjing Road, Qingdao Shandong 266071 CHINA (PEOPLES REP. OF)
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Name (including Title) of Head of Laboratory (Responsible Official):	Dr. Qing-Li Zhang, Senior Researcher
Name (including Title and Position) of OIE Reference Expert:	Dr. Jie Huang, Senior Researcher, Principle Investigator
Which of the following defines your laboratory? Check all that apply:	Academic

ToR 1: To use, promote and disseminate diagnostic methods validated according to OIE Standards

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 OIE Manual (Yes/No)	Total number of test performed last year	
		Nationally	Internationally
Indirect diagnostic tests			
Nested-PCR	Yes	386	4
Histopathology	Yes	5	0
Direct diagnostic tests			

**ToR 2: To develop reference material in accordance with OIE requirements, and implement and promote the application of OIE Standards.
To store and distribute to national laboratories biological reference products and any other reagents used in the diagnosis and control of the designated pathogens or disease.**

2. Did your laboratory produce or supply imported standard reference reagents officially recognised by the OIE?

No

3. Did your laboratory supply standard reference reagents (non OIE-approved) and/or other diagnostic reagents to OIE Member Countries?

Yes

Type of reagent available	Related diagnostic test	Produced/ provide	Amount supplied nationally (ml, mg)	Amount supplied internationally (ml, mg)	No. of recipient OIE Member Countries	Region of recipients
WSSV nucleic acid	PCR	provide	10 ⁵ reactions	10 ³ reactions	2	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
WSSV infected tissues	PCR	provide	150 g		1	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
High Sensitive Detection Kits for WSSV	LAMP	Produced	48	16	8	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to OIE Member Countries?

No

ToR 3: To develop, standardise and validate, according to OIE Standards, new procedures for diagnosis and control of the designated pathogens or diseases

6. Did your laboratory develop new diagnostic methods validated according to OIE Standards for the designated pathogen or disease?

No

7. Did your laboratory develop new vaccines according to OIE Standards for the designated pathogen or disease?

No

ToR 4: To provide diagnostic testing facilities, and, where appropriate, scientific and technical advice on disease control measures to OIE Member Countries

8. Did your laboratory carry out diagnostic testing for other OIE Member Countries?

Yes

Name of OIE Member Country seeking assistance	Date (month)	No. samples received for provision of diagnostic support	No. samples received for provision of confirmatory diagnoses
INDONESIA	December	4	4 tissue samples of WSSV
EGYPT	September	2	2 tissue samples of WSSV

9. Did your laboratory provide expert advice in technical consultancies on the request of an OIE Member Country?

Yes

Name of the OIE Member Country receiving a technical consultancy	Purpose	How the advice was provided
INDONESIA	OIE twinning project of China and Indonesia on WSD and IHNN	The first year of the project consists of a visit by the Expert from the Parent Laboratory to the Candidate Laboratory. In addition to a formal meeting to initiate the project, the Expert is to assess the capacity of the Candidate Laboratory including available equipment and level of staff training (Objective 1) and will work with Candidate Laboratory to begin development of a training plan for the staff member to be sent to the Parent Laboratory.

ToR 5: To carry out and/or coordinate scientific and technical studies in collaboration with other laboratories, centres or organisations

10. Did your laboratory participate in international scientific studies in collaboration with OIE Member Countries other than the own?

Yes

Title of the study	Duration	Purpose of the study	Partners (Institutions)	OIE Member Countries involved other than your country
OIE twinning project of China and Indonesia on WSD and IHNN	August ,2019- June,2021	twinning project to get OIE reference laboratory status for candidate laboratory	Fish Quarantine and Inspection - Standard Examination Laboratory in Jakarta, Republic of Indonesia	INDONESIA
Epidemiological investigation and detection technology development of farmed shrimp	23-28, August, 2019	Identification of WSSV and other new pathogens in prawns from Egyptian farmers	Cairo university;Alexandria University	EGYPT

ToR 6: To collect, process, analyse, publish and disseminate epizootiological data relevant to the designated pathogens or diseases

11. Did your Laboratory collect epizootiological data relevant to international disease control?

Yes

If the answer is yes, please provide details of the data collected:

The surveillance area for WSD involved in 12 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 9.9%

12. Did your laboratory disseminate epizootiological 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

13. What method of dissemination of information is most often used by your laboratory? (Indicate in the appropriate box the number by category)

a) Articles published in peer-reviewed journals: 0

No

b) International conferences: 3

HUANG, Jie. Biosecurity system: rule and steps in shrimp disease prevention and control. International Workshop on Aquaculture Biosecurity. September 24-25th, 2019. QingDao, China.

ZHANG, Qingli, Operational training for rapid detection of shrimp pathogens, International Workshop on

Aquaculture diseases,24-25th,August, 2019. Cairo, Egypt.

ZHANG, Qingli. Biosecurity of regional aquaculture and it's ecological effect.International Workshop on Aquaculture Biosecurity. September 24-25th, 2019. QingDao, China.

ZHANG Qingli. Ecological risk of covert mortality nodavirus: from ponds to wild sea,Oct. 19 2019.Victoria, Canada.

ZHANG Qingli. Aquatic disease prevention and control system: Biosecurity and Biosafety.Nov.26 2019. Pusan, Korea.

DONG, Xuan. The epidemiology and biosecurity in shrimp.International Workshop on Aquaculture Biosecurity. September 24-25th, 2019. QingDao, China.

c) National conferences: 1

Yang B, Wan X-Y, Xie G-S, Li C. Report for WSSV and IHNV testing in the National Laboratory Proficiency Testing Program. Sum-up Workshop of National Laboratory Proficiency Testing Program for Aquatic Diseases 2019□Ministry of Agriculture and Rural Affairs, PRC.

d) Other:

(Provide website address or link to appropriate information) 4

(1) Wan X-Y, Yang B, Huang J. 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 2019.

(2) Wan X-Y, Yang B, Huang J. 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 2019.

(3) Wan X-Y, Yang B, Huang J. 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 2019.

(4) Wan X-Y, Yang B, Huang J. 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 2019.

ToR 7: To provide scientific and technical training for personnel from OIE Member Countries

To recommend the prescribed and alternative tests or vaccines as OIE Standards

14. Did your laboratory provide scientific and technical training to laboratory personnel from other OIE Member Countries?

Yes

a) Technical visits: 1

b) Seminars: 1

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
a	Indonesia	2
b	Bangladesh, Brunei, Egypt, Indonesia, Malaysia, Philippines, Tunisia, Thailand	20
c	Bangladesh, Brunei, Egypt, Indonesia, Malaysia, Philippines, Tunisia, Thailand	20

ToR 8: To maintain a system of quality assurance, biosafety and biosecurity relevant for the pathogen and the disease concerned

15. Does your laboratory have a Quality Management System?

Yes

Quality management system adopted	Certificate scan (PDF, JPG, PNG format)
ISO/IEC 17025	ACCREDITED TESTING SCOPE□□□□□□□□(□□).pdf

16. 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; Quarantine protocol for white spot disease SN/T 1151.2-2011;Manual of Diagnostic Tests for Aquatic Animals (OIE, 2018) Chapter 2.2.8 White spot disease 4.3.1.2.4.1.	China National Accreditation Service for Conformity Assessment,CNAS

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

Yes

(See *Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, Chapter 1.1.4*)

ToR 9: To organise and participate in scientific meetings on behalf of the OIE

18. Did your laboratory organise scientific meetings on behalf of the OIE?

Yes

National/ International	Title of event	Co-organiser	Date (mm/yy)	Location	No. Participants
International	Aquaculture BiosecurityAquaculture Biosecurity	NACA, OIE , FAO	9/2020	Qingdao, China	40

19. Did your laboratory participate in scientific meetings on behalf of the OIE?

Yes

Title of event	Date (mm/yy)	Location	Role (speaker, presenting poster, short communications)	Title of the work presented
Laboratory Proficiency Testing Workshop	3/2019	Bangkok, Thailand	participant	summarise the major findings of the initial PT rounds and to stimulate group discussion on diagnostic standards, method platforms and laboratory quality assurance management systems
OIE twinning project of China and Indonesia on WSD IHHN	8/2019	Jakarta, Indonesia	speaker	Profile of Twinning Project , Framework of twinning program training plan, WSD and IHHN OIE reference laboratory activities

ToR 10: To establish and maintain a network with other OIE Reference Laboratories designated for the same pathogen or disease and organise regular inter-laboratory proficiency testing to ensure comparability of results

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

Yes

21. Was your laboratory involved in maintaining a network with OIE Reference Laboratories designated for the same pathogen or disease by organising or participating in proficiency tests?

Yes

Purpose of the proficiency tests: ¹	Role of your Reference Laboratory (organiser/participant)	No. participants	Participating OIE Ref. Labs/ organising OIE 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
WSSV proficiency test	organiser	1	Fish Quarantine and Inspection Agency Ministry of Marine Affairs and Fisheries of Indonesia

¹ validation of a diagnostic protocol: specify the test; quality control of vaccines: specify the vaccine type, etc.

22. Did your laboratory collaborate with other OIE Reference Laboratories for the same disease on scientific research projects for the diagnosis or control of the pathogen of interest?

No

ToR 11: To organise inter-laboratory proficiency testing with laboratories other than OIE Reference Laboratories for the same pathogens and diseases to ensure equivalence of results

23. Did your laboratory organise or participate in inter-laboratory proficiency tests with laboratories other than OIE Reference Laboratories for the same disease?

Yes

Note: See Interlaboratory test comparisons in: Laboratory Proficiency Testing at: <http://www.oie.int/en/our-scientific-expertise/reference-laboratories/proficiency-testing> see point 1.3

Purpose for inter-laboratory test comparisons ¹	No. participating laboratories	Region(s) of participating OIE Member Countries
To organise 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 interlaboratory test comparisons	125	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
To participate in Asia-Pacific Laboratory Proficiency Testing Program	26	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East

ToR 12: To place expert consultants at the disposal of the OIE

24. Did your laboratory place expert consultants at the disposal of the OIE?

Yes

Kind of consultancy	Location	Subject (facultative)
OIE twinning project between China Indonesia on WSD and IHNN	Qingdao, China; Jakarta, Indonesia	The Candidate Laboratory held a formal Project Launch Meeting on 27 August 2019 Two staff member from Candidate Laboratory visited the Parent Laboratory for training (17 September to 29 September 2019)

25. Additional comments regarding your report:

