

OIE Reference Laboratory Reports Activities

Activities in 2020

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Name of disease (or topic) for which you are a designated OIE Reference Laboratory:	Koi herpesvirus disease
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Name (including Title) of Head of Laboratory (Responsible Official):	Chihaya Nakayasu(Ph.D.),Director of pathology division, Fisheries Technology Institute
Name (including Title and Position) of OIE Reference Expert:	Takafumi Ito (Ph.D.), Head of diagnosis group, Pathology division, Fisheries Technology Institute
Which of the following defines your laboratory? Check all that apply:	Research

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		Nationally	Internationally
ELISA	No	0	0
Direct diagnostic tests		Nationally	Internationally
PCR with Sph primer	Yes	45	0
PCR with TK primer	Yes	45	0

**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
DNA extraction from KHV infected carp	PCR, Sequencing	produced	24.0mL	0.6mL	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

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?

No

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

No

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
Epitope mapping of the mAb IP5B11 for diagnosis viral haemorrhagic septicaemia	2019-2020	Evaluation of the specificity of the diagnostic method	Prof. Dr. Niels Jørgen Olesen (Technical University of Denmark)	DENMARK
Selective breeding of rainbow trout for resistance to viral hemorrhagic septicemia	2019-2020	Decrease the rates of mortality due to VHS	Prof. Dr. Niels Jørgen Olesen (Technical University of Denmark)	DENMARK
Diseases of Ornamental and Laboratory Fishes	2020-2021	Evaluation of the diseases status of ornamental and laboratory fishes	Dr.ir. Olga Haenen (Wageningen Bioveterinary Research)	THE NETHERLANDS

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:
These data has been collected through academic paper and international Conference.

12. Did your laboratory disseminate epizootiological data that had been processed and analysed?

No

If the answer is no, please provide a brief explanation of the situation:
Not ready to be disseminated yet.

**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: 1

Studies on the prevention of cyprinid herpesvirus (2021), Takafumi Ito, Fish Pathology, in press.

b) International conferences: 0

c) National conferences: 3

Takafumi Ito, Studies on the prevention of cyprinid herpesvirus (2020), Annual meeting of the Japanese Society for Fish Pathology

Takafumi Ito, Niels Jørgen Olesen, Selective breeding of rainbow trout for resistance to viral hemorrhagic septicemia using few parental fish (2021), Annual meeting of the Japanese Society for Fish Pathology (Online meeting)

Takafumi Ito, Takashi Kamaishi, Susceptibility of Japanese amberjack *Seriola quinqueradiata* and red sea bream *Pagrus major* to an isolate of infectious hematopoietic necrosis virus (IHNV) (2021), Annual meeting of the Japanese Society for Fish Pathology (Online meeting)

d) Other:

(Provide website address or link to appropriate information) 2

Website of our lab.; <http://nria.fra.affrc.go.jp/sindan/kantei.html>

Information on KHV disease occurrences in Japan (number and location) were provided through the website of Ministry of Agriculture, Forestry and Fisheries.

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?

No

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)
ISO17025	2020 ISO certification.pdf

16. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
PCR	Perry Johnson Laboratory accreditation, Inc

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?

No

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

No

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?

No

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
Determining a laboratory's capability to conduct specific diagnostic tests (National ring test)	18	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East
Determining a laboratory's capability to conduct specific diagnostic tests (EU ring test)	45	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input checked="" type="checkbox"/> Asia and Pacific <input checked="" 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)
Rewriting of OIE manual of KHV disease	Mie	Rewriting of OIE manual of KHV disease
Providing comments on new CHAPTER 2.3.0. GENERAL INFORMATION	Mie	Providing comments on new CHAPTER 2.3.0. GENERAL INFORMATION
Providing comments on the report of OIE Aquatic Animal Health Standards Commission	Mie	Providing comments on the report of OIE Aquatic Animal Health Standards Commission

25. Additional comments regarding your report:

Takafumi Ito, a KHV expert, was awarded by the Japanese Society of Pathology in 2020 for his achievements in research on KHV disease.

