

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

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Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Infección por virus de la anemia infecciosa del salmón
Address of laboratory:	Avenida Universidad, 330 Valparaíso, CHILE
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Website:	
Name (including Title) of Head of Laboratory (Responsible Official):	Sergio Hernán Marshall González Ph.D. Harvard University - USA. Microbiology and Molecular Genetics. MSc. Biology. Brandeis University - USA. BA. Biology - Brandeis University - USA. Licenciatura en Biología. PUCV - Chile.
Name (including Title and Position) of WOAH Reference Expert:	Sergio Hernán Marshall González Ph.D. Harvard University - USA. Microbiology and Molecular Genetics. MSc. Biology. Brandeis University - USA. BA. Biology - Brandeis University - USA. Licenciatura en Biología. PUCV - Chile.
Which of the following defines your laboratory? Check all that apply:	Governmental 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	
		Nationally	Internationally
Indirect diagnostic tests			
Direct diagnostic tests			
RT-qPCR Snow		270	0
RT-qPCR GIM		270	0
RT-qPCR HPR0		71	0
PCR (Seg 6 HPR)		6	0
PCR (Seg 5 Insert)		6	0
RT-qPCR Multiplex		90	0
Secuenciación HPR		6	0
Secuenciación región inserto Seg5		6	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 WOAHP MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
Material genético de ISAV en diferentes presentaciones	RT-PCR y RT-qPCR	8 variantes de ISAV	15 mL	0	1	CHILE,

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHP Members?

No

TOR3: NEW PROCEDURES

6. Did your laboratory develop new diagnostic methods for the designated pathogen or disease?

7. Did your laboratory validate diagnostic methods according to WOAHP Standards for the designated pathogen or disease?

8. Did your laboratory develop new vaccines for the designated pathogen or disease?

9. Did your laboratory validate vaccines according to WOAHP Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

10. Did your laboratory carry out diagnostic testing for other WOAHP Members?

No

11. Did your laboratory provide expert advice in technical consultancies on the request of an WOAHP Member?

Yes

NAME OF THE WOAHP MEMBER COUNTRY RECEIVING A TECHNICAL CONSULTANCY	PURPOSE	HOW THE ADVICE WAS PROVIDED
BRAZIL	Asesoría técnica a un laboratorio Universitario de investigación referente los ensayos de diagnóstico oficiales para diferentes patologías virales de peces y la existencia de laboratorios de referencia OMSA	Mediante correo electrónico

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAHP Members other than the own?

No

13. In exercising your activities, have you identified any regulatory research needs* relevant for WOAHP?

Yes

Research need : 1

Please type the Research need: Es necesario realizar un estudio para calcular la sensibilidad (LoD) y especificidad del actual GoldStandar para el diagnóstico de ISAV (Snow et al., 2006).

Relevance for WOAHP Disease Control,

Relevance for the Codes or Manual Manual,

Field Diagnostics,

Animal Category Aquatic,

Disease:

Infeción por virus de la anemia infecciosa del salmón

Kind of disease (Zoonosis, Transboundary diseases) Transboundary diseases,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer: section 6.3 of Chapter 2.3.4. – Infection with HPR-deleted or HPR0 infectious salmon anaemia virus.**Notes:***Answer:***TOR6: EPIZOOLOGICAL DATA**

14. Did your Laboratory collect epidemiological data relevant to international disease control?

No

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:

b) International conferences:

c) National conferences:

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 WOAHA 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)	
NCh-ISO/IEC 17025:2017	Certificado de Acreditación.pdf	Certificado de Acreditación 2024-2029_LE1572.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Detección del Virus de la Anemia Infecciosa del Salmón (ISAv) mediante RT-qPCR (Snow et al., 2006)	Instituto Nacional de Normalización (INN)
Detección de <i>Piscirickettsia salmonis</i> (P. sal/SRS) mediante RT-qPCR (Corbeil et al., 2003)	Instituto Nacional de Normalización (INN)
Detección de <i>Piscirickettsia salmonis</i> (P. sal/SRS) mediante RT-qPCR (Karatas et al., 2008)	Instituto Nacional de Normalización (INN)

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

No

TOR9: SCIENTIFIC MEETINGS

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

No

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

No

TOR10: NETWORK WITH WOAHP REFERENCE LABORATORIES

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

Yes

24. Do you network (collaborate or share information) with other WOAHP Reference Laboratories designated for the same pathogen?

No

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

No

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

Yes

Purpose for inter-laboratory test comparisons ¹	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Name of the Test	WOAHP Member Countries
Evaluar la capacidad de los laboratorios participantes para discriminar específicamente entre una serie de muestras positivas a ISAV, cuales corresponden a la variante HPR0.	Organizador	17	ENSAYO DE COMPARACIÓN INTERLABORATORIO PARA LA EVALUACIÓN DE LA CAPACIDAD DE LOS LABORATORIOS REGISTRADOS PARA DETECTAR EN FORMA ESPECÍFICA LA VARIANTE HPR0 DEL VIRUS DE LA ANEMIA INFECCIOSA DEL SALMÓN (ISAV) MEDIANTE RT-qPCR. "RING TEST ISAV HPR0"	CHILE,

TOR12: EXPERT CONSULTANTS

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

Yes

KIND OF CONSULTANCY	Location	SUBJECT (FACULTATIVE)
Revisión y aportes en el Capítulo de ISAV del Manual de Pruebas de Diagnóstico para los Animales Acuáticos	Chile	Diagnóstico y Caracterización de ISAV

29. Additional comments regarding your report:

Yes

La situación de ISAV en nuestro país ha estado relativamente tranquila con detección de casos aislados durante el año y sin mayores repercusiones. Por lo tanto la gestión de nuestro laboratorio ha sido mayormente de monitoreo y vigilancia.

Respecto a la situación de ISAV HPR0 se mantiene con un nivel de detección relativamente bajo y sin relación con mortalidad de peces ni enfermedad clínica.