

WOAH Reference Laboratory Reports Activities 2023

Activities in 2023

This report has been submitted : 12 juin 2024 14:15

Laboratory Information

Name of disease (or topic) for which you are a designated WOA Reference Laboratory:	Infection with salmonid alphavirus
Address of laboratory:	
Tel.:	+47 23.21.60.00
E-mail address:	vi1013@vetinst.no
Website:	www.vetinst.no
Name (including Title) of Head of Laboratory (Responsible Official):	Øyvind Fylling-Jensen
Name (including Title and Position) of WOA Reference Expert:	Dr. Hilde Sindre
Which of the following defines your laboratory? Check all that apply:	Governmental Research agency

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	
		Nationally	Internationally
Indirect diagnostic tests			
histopathology		336	0
serum neutralisation assay		86	0
Direct diagnostic tests			
Real-time RT-PCR		1043	0
immunohistochemistry		76	0
Cell culture for isolation		34	0
Conventional RT-PCR combined with amplicon sequencing		125	0

TOR2: REFERENCE MATERIAL

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

No

3. Did your laboratory supply standard reference reagents (nonWOAH-approved) and/or other diagnostic reagents to WOA Members?

Yes

TYPE OF REAGENT AVAILABLE	RELATED DIAGNOSTIC TEST	PRODUCED/ PROVIDE	AMOUNT SUPPLIED NATIONALLY (ML, MG)	AMOUNT SUPPLIED INTERNATIONALLY (ML, MG)	NO. OF RECIPIENT WOA MEMBER COUNTRIES	COUNTRY OF RECIPIENTS
SAV3	Real-time RT-PCR	Yes	130 ml	3 ml	2	INDIA, ISRAEL,

SAV2	Real-time RT-PCR	Yes	0 ml	2 ml	1	INDIA,
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4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAHA 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 WOAHA 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 WOAHA Standards for the designated pathogen or disease?

No

TOR4: DIAGNOSTIC TESTING FACILITIES

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

No

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

No

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

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

Yes

Title of the study	Duration	PURPOSE OF THE STUDY	PARTNERS (INSTITUTIONS)	WOAHA MEMBER COUNTRIES INVOLVED OTHER THAN YOUR COUNTRY
Effect of pancreas disease vaccines on infection levels and virus transmission in Atlantic salmon (<i>Salmo salar</i>) challenged with salmonid alphavirus, genotype 2	2022-2023	testing of vaccine against PD	Elanco Animal Health, Veso Aqualab, Experimental Pathology Laboratories, NMBU, Elanco Canada	CANADA UNITED STATES OF AMERICA

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

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:

Data collected related to all Norwegian detections of SAV and also all PD cases

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:

An overview of the occurrence of SAV is presented in the annual Fish Health report. All reported cases of SAV are also presented continuously at our web page (Pankreassykdom (PD) - utbrudd og statistikk (vetinst.no)) including an inter-active map over outbreaks.

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:

2

In Situ Detection of Salmonid Alphavirus 3 (SAV3) in Tissues of Atlantic Salmon in a Cohabitation Challenge Model with a Special Focus on the Immune Response to the Virus in the Pseudobranch.

Tartor H, Bernhardt LV, Mohammad SN, Kuiper R, Weli SC. *Viruses*. 2023 Dec 17;15(12):2450. doi: 0.3390/v15122450.

b) International conferences:

1

Trination meeting

c) National conferences:

1

Frisk Fisk 2023: Presentation of the Norwegian Fish Health Report

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

2

EFSA journal: Assessment of listing and categorisation of animal diseases within the framework of the Animal Health Law (Regulation (EU)2016/429): Infection with salmonid alphavirus (SAV).

EFSA Panel on Animal Health and Welfare (AHAW); Nielsen SS, Alvarez J, Calistri P, Canali E, Drewe JA, Garin-Bastuji B, Gonzales Rojas JL, Gortázar C, Herskin MS, Michel V, Miranda Chueca MÁ, Padalino B, Roberts HC, Spoolder H, Ståhl K, Velarde A, Viltrop A, Winckler C, Bron J, Olesen NJ, Sindre H, Stone D, Vendramin N, Antoniou SE, Broglia A, Karagianni AE, Papanikolaou A, Bicoût DJ.

EFSA J. 2023 Oct 30;21(10):e08327. doi: 10.2903/j.efsa.2023.8327. eCollection 2023 Oct.

PMID: 37908450 Free PMC article.

The Norwegian Fish Health report 2023: <https://www.vetinst.no/rapporter-og-publikasjoner/rapporter/2024/fishhealthreport-2023>

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)	
NS-EN ISO/IEC 17025	Accreditation document pdf	Akkrediteringsdokument 13.01.23.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body
Influenza A virus (matrix) - detection with real-time Rt-PCR (ME07_127)	Norwegian Accreditation, member of EA
Flexible accreditation including all methods based on the same principle, this includes real-time RT-PCR for SAV	Norwegian Accreditation, member of EA

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

Yes

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?

Not applicable (only WOAHP Reference Laboratory designated for the disease)

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

Not applicable (Only WOAHP Reference Laboratory designated for the disease)

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

Not applicable (Only WOAHP Reference Laboratory designated for the disease)

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?

Not applicable (Only WOAHP 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 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
The EU-RL Annual Inter-laboratory Proficiency Test 2023 focused on identification of the pathogens causing the nonexotic and exotic fish diseases listed in Council Directive 2016/88EC, including ISA. In 2015, SAV was included for the first time.	Participant	42	Inter-Laboratory Proficiency Test 2023 for identification and titration of VHSV, IHNV, EHN, SVCV and IPNV (PT1) and identification of CyHV-3 (KHV), SAV and ISAV (PT2)	

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No