WOAH Reference Laboratory Reports Activities2022

Activities in 2022

This report has been submitted: 1 mars 2023 17:34

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Infection with salmonid alphavirus
Address of laboratory:	Norwegian Veterinary Institute, P.O. Box 64, 1431 Aas, Norway
Tel.:	+4723216000
E-mail address:	hilde.sindre@vetinst.no
Website:	https://www.vetinst.no/en
Name (including Title) of Head of Laboratory (Responsible Official):	Torill Moseng, Director General of the Norwegian Veterinary Institute
Name (including Title and Position) of WOAH 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 WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Histopathology	Yes	425	0
Direct diagnostic tests		Nationally	Internationally
Immunohistochemistry	Yes	13	0

Real-time RT-PCR	Yes	1053	0
RT-PCR with sequencing	Yes	189	0

TOR2: REFERENCE MATERIAL

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

Nο

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
Infectious field isolates SAV2/SAV3	several	Norway	10 ml	20 ml	2	Europe
Salmon sera from SAV-infected fish	FLISA VNT	Norway		0,1 ml	1	Europe

4. Did your laboratory produce vaccines?

No

5. Did your laboratory supply vaccines to WOAH 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 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?

Nο

TOR5: COLLABORATIVE SCIENTIFIC AND TECHNICAL STUDIES

12. Did your laboratory participate in international scientific studies in collaboration with WOAH 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
Effects of a DNA and multivalent oil-adjuvanted vaccines against pancreas disease in Atlantic salmon (Salmo salar) challenged with salmonid alphavirus subtype 3	2021-2022	Evaluate the effect of a DNA vaccine on viremia and neutralizing activity	Experimental Pathology Laboratories Inc., Elanco	UNITED STATES OF AMERICA
Robust Atlantic salmon through fine-tuned genome editing (TUNESAL)	2020-2023	Produce SAV-clones for experimental trials	IMR, Norway (project leader) INRA - French National Institute for Agricultural Research	FRANCE
EPA immune - Can dietary EPA affect viral response in Atlantic salmon?	2021-2025	Produce SAV-clones for experimental trials. Evaluate immune responses	IMR (project leader) Norway, University of Manchester	UNITED KINGDOM

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 occurence 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:

1

Effects of a DNA and multivalent oil-adjuvanted vaccines against pancreas disease in Atlantic salmon (Salmo salar) challenged with salmonid alphavirus subtype 3.

Thorarinsson R, Wolf JC, Inami M, Sindre H, Skjerve E, Evensen Ø, Rimstad E.

Fish Shellfish Immunol Rep. 2022 Aug 10;3:100063. doi: 10.1016/j.fsirep.2022.100063. eCollection 2022 Dec.

b) International conferences:

1

2022 PD Trination meeting, Endinburgh, UK

c) National conferences:

1

Frisk Fisk, Bergen 2022

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

The Fish Health report provide an annual status and risk evaluation of the fish health situation in Norway. https://www.vetinst.no/rapporter-og-publikasjoner/rapporter/2022/fish-health-report-2021

TOR7: SCIENTIFIC AND TECHNICAL TRAINING

17. Did your laboratory provide scientific and technical training to laboratory personnel from other WOAH 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		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 accrediation 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 WOAH?

No

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

No

TOR10: NETWORK WITH WOAH REFERENCE LABORATORIES

23. Did your laboratory exchange information with other WOAH Reference Laboratories designated for the same pathogen or disease? Not applicable (only WOAH Reference Laboratory designated for the disease

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

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

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

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

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

Not applicable (Only WOAH 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 WOAH Reference Laboratories for the same pathogen?

Yes

Purpose for inter-laboratory test comparisons1	Role of your reference laboratory (organizer/participant)	No. participating laboratories	Region(s) of participating WOAH Member Countries
The EU-RL Annual Inter-laboratory Proficiency Test 2022 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	44	Africa America Asia and Pacific Europe MiddleEast

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

No

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Less contact from other labs for advice and as			
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