WOAH Reference Laboratory Reports Activities 2022

Activities in 2022

This report has been submitted : 24 avril 2023 16:03

Laboratory Information

Name of disease (or topic) for which you are a designated WOAH Reference Laboratory:	Infectious salmon anemia	
Address of laboratory:	Postboks 64, 1431 Ås, Norway	
Tel.:	+4723216000	
E-mail address:	ole.b.dale@vetinst.no	
Website:	https://www.vetinst.no/	
Name (including Title) of Head of Laboratory (Responsible Official):	General Director, DVM Torill Moseng	
Name (including Title and Position) of WOAH Reference Expert:	DVM, PhD Ole Bendik Dale	
Which of the following defines your laboratory? Check all that apply:	Governmental	

TOR1: DIAGNOSTIC METHODS

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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)

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Diagnostic Test	Indicated in WOAH Manual (Yes/No)	Total number of test performed last year	
Indirect diagnostic tests		Nationally	Internationally
Histopathology	Yes	529	0
Direct diagnostic tests		Nationally	Internationally
Immunohistochemistry	Yes	141	0
Real time RT-PCR	Yes	6042	0
Sequencing	Yes	399	

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			0
Cell culture	Yes	31	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?

No

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?

No

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
Whole genome sequencing of ISAV	2021 - ongoing	Diagnostics and research	Faorese Food and Veterinay Authority	DENMARK

TOR6: EPIZOOLOGICAL DATA

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

Yes

THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:

Publishing ISAV sequence data from Norwegian outbreaks in open acess database (Genebanke)

15. Did your laboratory disseminate epidemiological data that had been processed and analysed?

Yes

F THE ANSWER IS YES, PLEASE PROVIDE DETAILS OF THE DATA COLLECTED:

ISA outbreak locations, phylogenetic and epidemiological data - open on official websites

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:

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Fosse, J.H.; Aamelfot, M.; Sønstevold, T.; Weli, S.C.; Vendramin, N.; Petersen, P.E.; Solhaug, A.; Amundsen, M.M.; Heffernan, I.A.; Cuenca, A.; Christiansen, D.H.; Falk, K. Salmon Erythrocytes Sequester Active Virus Particles in Infectious Salmon Anaemia. Viruses 2022, 14, 310. https://doi.org/10.3390/v14020310

Aamelfot M, Fosse JH, Viljugrein H, Ploss FB, Benestad SL, McBeath A, et al. (2022) Destruction of the vascular viral receptor in infectious salmon anaemia provides in vivo evidence of homologous attachment interference. PLoS Pathog 18(10): e1010905. https://doi.org/10.1371/journal.ppat.1010905

b) International conferences:

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9th International Symposium on Aquatic Animal Health "Enhancing aquatic animal health towards One Health" September 5-8, 2022 • Centro de Extensión, Pontificia Universidad Católica de Chile • Santiago

Infectious Salmon Anemia Cause New Challenges In Norway. Sonal Patel, Mona Dverdal Jansen, Torfinn Moldal, Bjørn Spilsberg, Simon Weli, Haitham Tartor, Hilde Sindre, Ole Bendik Dale*

Infectious Salmon Anemia Virus Directly Modulates the Red Cell Surface. Prosjekt: NFR prosjekt VIRRBC. Johanna H. Fosse, Adriana M. S. Andresen, Simon Weli, Raoul V. Kuiper, Inger A. Heffernan, Anita Solhaug, Betty Ploss, Subash Sapotka, Sonal Patel*, Knut Falk. *Presented by

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 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)	
ISO 17025		Akkrediteringsdokument 13.01.23.pdf

19. Is your quality management system accredited?

Yes

Test for which your laboratory is accredited	Accreditation body	
Flexible accreditation for real-time RT-PCR methods including ME07_181: ISAV matrix real time RT-PCR	Norwegian Accreditation, member of EA	

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

Yes

The QA system approved by Norwegian accreditation includes a bioriskmanagement system protecting staff and environment through biosecurity measures up to BSL-3 level.

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? Yes

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

No

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

No

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?

No

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

Participant

Europe

TOR12: EXPERT CONSULTANTS

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

No

29. Additional comments regarding your report:

Yes

Collaboration to validate new diagnostic methods is dicussed with OIE expert on the same disease, Sergio Marshall in Chile. An initiative taken on a visit to the reference laboratory in Chile, 9th September 2022. We expect to start the project during 2023.