

OIE Collaborating Centres Reports Activities

Activities in 2016

This report has been submitted : 2017-01-25 11:56:14

Title of collaborating centre:	Epidemiology Aquatic Animal Diseases
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Name of Director of Institute (Responsible Official):	Gen Dir Gudmund Holstad
Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):	Dr Edgar Brun and Dr Larry Hammell
Name of writer:	Edgar Brun & Larry Hammell

ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories

ToR: To identify and maintain existing expertise, in particular within its region

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by the OIE

Epidemiology, surveillance, risk assessment, modelling	
Title of activity	Scope
Assessment of factors associated with increased mortality at shrimp farms in Vietnam	Completion of collaborative research project to examine retrospective and prospective farm health and production data to identify factors related to reduced productivity
Tissue sample collections from Infectious Salmon Anemia clinical cases to support surveillance test evaluations (ongoing)	Building an archive of fish diagnostic samples to be used for blinded assessments of diagnostic tests
Sea lice and treatment response trend monitoring	Investigation of optimal detection strategies for treatment responses in farmed Atlantic Salmon
Evaluation of the performance of Bacteria Kidney Disease diagnostic culture tests	Epidemiological approaches to investigate and quantify how variations in field sampling protocols for farmed Atlantic Salmon, commonly found in clinical practice, may influence diagnostic test outcomes with a particular emphasis on bacterial culture.

ToR : To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare

Proposal title	Scope/Content	Applicable area
Research Workshop Proposal: Disease Modelling and Risk Management of Transboundary Diseases of Aquatic Animals	Submitted a proposal for Canadian government funding to support the conduct of a research workshop for Disease Modelling and Risk Management of Transboundary Diseases of Aquatic Animals. Proposal supported with funding April/May 2017.	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare

Veterinary Education Twinning Proposal	Submitted a proposal for Veterinary Education Twinning (Canada / Chile) to provide PVS Day-One competencies in Epidemiology and Risk Assessment for Aquatic Animal Diseases. Proposal vetted by both governments and submitted to OIE in Dec 2016, anticipated response in 2017.	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare
Veterinary Education Twinning	Part of a 3-year Twinning agreement between NVI and National Reference Laboratory for Aquatic Animal Diseases/MAPA Federal University of Minas Gerais, Brazil.	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare
research	Research activities initiated on (among others) culturing HPRO, non-lethal sampling, describing virulence variety in HPRX	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare
Workshop	initiated workshop (in Norw) to be held in April 2017	<input checked="" type="checkbox"/> Surveillance and control of animal diseases <input type="checkbox"/> Food safety <input type="checkbox"/> Animal welfare

ToR: To establish and maintain a network with other OIE Collaborating Centres designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines

ToR: To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations

3. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of OIE CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
OIE ISA Ref lab	Norway	<input type="checkbox"/> Africa <input type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Middle East	working on HPRO distribution and HPRO culturing
OIE ISA Ref lab, Universitetet i Valparaiso	Chile	<input type="checkbox"/> Africa <input checked="" type="checkbox"/> Americas <input type="checkbox"/> Asia and Pacific <input type="checkbox"/> Europe <input type="checkbox"/> Middle East	working on HPRO distribution and HPRO culturing

4. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

No

ToR: To place expert consultants at the disposal of the OIE.**5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?**

Yes

Name of expert	Kind of consultancy	Subject
Larry Hammell	Technical Advice	Peer Review of OIE PVS Evaluation Report (Aquatic; Europe), 2016.
Larry Hammell	Technical Advice	Peer Review of OIE PVS Evaluation Report (Aquatic; Asia), 2016.
Edgar Brun	Leader of ad hoc Group	asked to lead the work to review/rewrite section 4 in the Code. Works starts 2017

ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries**6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?**

No

ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE**7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?**

Yes

National/International	Title of event	Co-organiser	Date (mm/yy)	Location	No. Participants
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International	International society for aquatic animal epidemiology (ISAAE) AquaEpi I Conference	Edgar Brun	09/16	Norway	110
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ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty

8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE

a) Articles published in peer-reviewed journals: 9

GAUTAM R, VANDERSTICHEL R, BOERLAGE A, REVIE C, HAMMELL L. 2016. Evaluating bath treatment effectiveness in the control of sea lice burdens on Atlantic salmon in New Brunswick, Canada. J Fish Diseases. doi:10.1111/jfd.12569

BOERLAGE AS, STRYHN H, SANCHEZ J, HAMMELL KL. 2016. Case definitions for clinical and subclinical Bacterial Kidney Disease (BKD) in Atlantic salmon (*Salmo salar* L.) in New Brunswick, Canada. J Fish Diseases doi:10.1111/jfd.12521

BOONYAWIWAT V, PATANASATIENKUL T, KASORNCHANDRA J, POOLKHET C, YAEMKASEM S, HAMMELL L, DAVIDSON J. 2016. Impact of farm management on expression of early mortality syndrome / acute hepatopancreatic necrosis disease (EMS / AHPND) on penaeid shrimp farms in Thailand. J Fish Diseases doi:10.1111/jfd.12545

GAUTAM R, VANDERSTICHEL R, BOERLAGE A, REVIE C, HAMMELL L. 2016. Effect of timing of count events on estimates of sea lice abundance and interpretation of effectiveness following bath treatments. J Fish Diseases doi: 10.1111/jfd.12519

WHYTE SK, JIMENEZ D, REVIE CW, HAMMELL KL. 2016. Multivariate evaluation of the effectiveness of delousing treatment efficacy of Azamethiphos (Salmosan®) against the salmon louse (*Lepeophtheirus salmonis*) in Atlantic salmon (*Salmo salar*) using wellboat, skirt and tarpaulin treatment modalities. Aquaculture 450: 301-307.

GAUTAM R, BOERLAGE AS, VANDERSTICHEL R, REVIE CW, HAMMELL KL. 2016. Variation in pre-treatment count lead time and its effect on baseline estimates of cage-level sea lice abundance. J Fish Diseases doi/10.1111/jfd.12460

Agusti C, Bravo S, Contreras G, Bakke MJ, Helgesen KO, Winkler C, Silva MA, Mendoza J, Horsberg TE, 2016. Sensitivity assessment of *Caligus rogercresseyi* to anti-lice chemicals in relation to treatment efficacy in Chilean salmonid farms. Aquaculture 458, 195-205.

Jansen PA, Grøntvedt RN, Tarpai A, Helgesen KO, Horsberg TE, 2016. Surveillance of the sensitivity towards antiparasitic bath-treatments in the salmon louse (*Lepeophtheirus salmonis*). PLOS ONE.

Jansen MD, Bang Jensen B, McLoughlin MF, Rodger HD, Taksdal T, Sindre H, Graham DA & Lillehaug A: The epidemiology of pancreas disease in salmonid aquaculture: a summary of the current state of knowledge. Journal of Fish Diseases 2016; doi:10.1111/jfd.12478.

b) International conferences: 1

AquaEpi I - First International conference of International Society of Aquatic Animal Epidemiology (ISAAE), Oslo Norway 20-22 Sept. 2016

c) National conferences: 1

2016 - Canadian Animal Health Laboratorians Network (CAHLN) Annual Meeting, Charlottetown, Canada 5-8 Jun 2016. Collaboration in Veterinary Laboratory Diagnostics and Animal Health.

d) Other

(Provide website address or link to appropriate information): 0