



Workplan 2015 and suggestions for workplan 2016

Niels Jørgen Olesen, Niccolò Vendramin

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of the National Reference Laboratories for Fish Diseases
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Workplan in 2015

- Very similar to 2014



DRAFT EURL WORKPLAN FOR 2016

Niels Jørgen Olesen, Susie Sommer Mikkelsen, Teena Klinge, Tine Iburg and Niccolò Vendramin

EURL FOR FISH DISEASES, 2016

OBJECTIVES FOR THE PERIOD JANUARY - DECEMBER 2016

1. Coordination and training

- 1-1 Organise and prepare for the 20th Annual Workshop for the National Reference Laboratories for Fish Diseases (NRLs) in 2016. Cph primo June 2016?
- 1-2 Produce a report from the Annual Workshop 2016.
- 1-3 Collect and report data on the fish disease situation in EU, including all the listed non-exotic fish diseases. With more focus on emerging diseases.
- 1-4 Facilitate and provide training in laboratory diagnosis. The training courses in methods used for diagnosis of fish diseases is offered annually at the premises of the EURL-Fish. The courses will primarily be for training of staff from NRLs and the content will depend on request from participants. The courses will be conducted autumn 2016

2. Proficiency test

- 2-1 Prepare the Annual Inter-laboratory Proficiency Tests year 2016 for the NRLs. The test will include testing for VHSV, IHNV, EHN, ISAV, KHV and in addition upon request SVC and IPN. If accepted by the NRLs it will also include SAV.

- 2-2 Collate and analyse information gained from the Inter-laboratory Proficiency Tests

3. Reagents and products

- 3-1 Supply reference reagents to the NRLs in Member States.
- 3-2 Produce a panel of well characterized VHSV and IHNV isolates to be distributed to interested NRLs for e.g. test validation and implementation.
- 3-3 Update and maintain a library of isolates of ISAV, VHSV, IHNV, KHV, EHN and pathogens causing disease that might be listed in future, e.g. SAV, nodaviruses.
- 3-4 Maintain a library of tissue material from fish infected with listed pathogens

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4. Scientific advice and activities

- 4-1 Update and maintain the webpage for the EURL, www.eurl-fish.eu
- 4-2 Update the diagnostic manuals for VHS, IHNV, ISA, KHV disease, and EHN on the EURL web page.
- 4-3 Collect information on strain variation occurring within pathogens causing the listed diseases VHS, ISA, EHN and KHV disease and provide recommendations on how to discriminate between various strains.
- 4-4 Identify and characterise selected isolates of listed viruses (genetic characterisation).
- 4-5 Update and expand www.fishpathogens.eu with more pathogens.
- 4-6 Assessment and standardisation of real-time PCR tests for the diagnosis, identification and typing of the listed non-exotic fish diseases.
- 4-7 In collaboration with specialised experts WW to review selected emerging fish diseases in Europe and assess their potential listing as exotic or non-exotic diseases.

5. Missions

- 5-1 Organizing missions to relevant laboratories. Missions will focus on NRLs where on-site communication would be beneficial.
- 5-2 Attending missions, international meetings and conferences in order to be updated on emerging and listed exotic and non-exotic fish diseases.

Apart from all the mandatory plans for next year suggestions for other topics to work on for the EURL would be most appreciated

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WORKPLAN 2016

Suggestions for NEW topics to address:

G24 IHNV reference set from Jim Winton, et al. OIE Ref lab for IHNV

Information for the IHNV G24 Reference set:
24 isolates of infectious hematopoietic necrosis virus
USGS Western Fisheries Research Center, Seattle, Washington, USA

Seattle, Washington, USA

Table 1. Epidemiological features and passage numbers of the 24 IHNV isolates in the G24 set

Isolate Name	Year	Geographic source	Specific Location	Host species	Life stage	Passage number
IS154	1994	Washington USA	Salter Lake H.	coho salmon	smolt	4
CR12	2012	Washington USA	Cedar River	coho salmon	juvenile	8
R81	1975	Oregon USA	Round Bay H.	steelhead	unknown	5-8
DR19	2010	Idaho USA	Clear Fork	steelhead	juvenile	4
R15	2000	Western Russia	Shyrdarya R.	RB trout	juvenile	5
R49	2001	Semirethya/Russia	Malykhin R.	salmon	adult	5
LR80	1980	Washington USA	Lacey River H.	Chinook	adult	17
WRAC	1982	Idaho USA	Hagerman R.	RB trout	juvenile	19
220-90	1990	Idaho USA	Hagerman R.	RB trout	juvenile	5
MC30	1991	Idaho USA	Hagerman R.	RB trout	juvenile	7-9
Mar19	1995	Washington USA	Meadow R.	steelhead	adult	4
CH07	2007	Washington USA	Selmon River H.	steelhead	juvenile	4
DW09	2009	Idaho USA	Quinnell H.	steelhead	juvenile	4
C18	1991	California USA	Trinity R.	Chinook	juvenile	4
CA80	1980	California USA	Coleman R.	Chinook	adult	17
RS17	1986	California USA	Wichita R.	Chinook	adult	17
FR001	2000	California USA	Feather River H.	Chinook	juvenile	7-9
2009/09	2009	Germany		RB trout	unknown	5-2
2121A*	1989	Italy		RB trout	unknown	5-2
031486	2002	Finland		RB trout	unknown	5-2
RH0504	2006	Japan		RB trout	unknown	4
RH012	2002	Japan		RB trout	unknown	4
RH0104	2006	Japan		RB trout	unknown	4
RPY01	1991	Spain		RB trout	unknown	5-2

Table 2. Genetic features of the 24 IHNV isolates in the G24 set

Isolate Name	Genotype	Sub-genotype	mSP2	GenBank Accession for Genome Sequences
IS154	II	1p	+	U00010
CR12	I	1p	+	U00009
R81	I	1p	+	U00010
DR19	IX	1c	+	U00010
R15	I	1p	+	U01480
R49	I	1p	+	U01480
LR80	III	1b	+	U00074
WRAC	III	1b	+	U00084
220-90	III	1b	+	U00084
MC30	III	1b	+	U00084
Mar19	III	1b	+	U01134
CH07	III	1b	+	U01134
DW09	III	1b	+	U01134
C18	I	1p	+	U01134
CA80	I	1p	+	U01134
RS17	I	1p	+	U01134
FR001	I	1p	+	U01134
2009/09	E			FP9499
2121A*	E			2121A*
031486	E			031486
RH0504	J	Nagano	+	RH0504
RH012	J	Nagano	+	RH012
RH0104	J	Shizuoka	+	RH0104
RPY01	J	Shizuoka	+	RPY01

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- *Similar VHSV reference set from EURL team?*
- *ISAV?*
- *CyHV-3 ?*
- *Participating in Review on listing fish diseases in Annex to the new AHL?*

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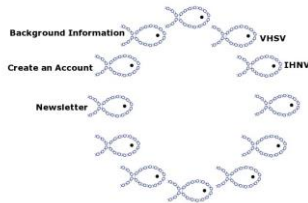
Training courses in 2016?

- Course will be held in autumn 2016 in Copenhagen (1-2 weeks).
- Topics? Cell cultivation, serology, molecular methods?
- Please indicate if any needs or special topics of interest!

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2015-2016 Fish Pathogens Database

- In 2015 plans for SAV
- Future plans for including more pathogens:
- SVC
- Perhabdovirus
- ISA
- ?



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Workshops in 2016?

- Suggestions for topics to address? Back to back with 20th AW.

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Other suggestions for 2016?

- A work plan must be approved by the Commission September 1st. The NRL's can propose and decide plan for EURL

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20th Annual Workshop 2016

- When?
- Where?

