



Invitation to the 2016 training courses organized by the EURL for Fish Diseases

Week 41:

Methods for implementation of surveillance procedures for listed fish diseases from Monday the 10th to Friday the 14th of October 2016

Week 42:

Introduction to Histopathology in fish diseases in from Monday the 17th to Thursday 20th of October 2016

A preliminary programme for each course, potentially subject to changes, can be downloaded on our web page www.eurl-fish.eu



Day 1	Day 2	Day 3	Day 4	Day 5
Section 1 FISH Farm Inspection FISH FARM VISIT in collaboration with FYST (Danish Veterinary and Food Administration, Section for Aquaculture). The participants will be introduced to the contingency plan in Denmark, practical demonstration of farm inspection will be performed and samples for surveillance will be collected by participants.	Section 2 Laboratory introduction Participants will be introduced to the laboratory. Coffee Break 10:00-10:30 Theoretical introduction to the use of cell culture and qPCR for surveillance programs for non-exotic listed disease in Europe.	Section 3 Cell culture facility Cell culture preparation for diagnostic purpose, titration and IFAT. Coffee Break 10:00-10:30 Titration procedure Viral titre calculation.	Section 4 qPCR analysis Nucleic acid purification and master mix preparation. Coffee Break 10:00-10:30 Titration procedure Viral titre calculation.	Section 5 Discussion and evaluation Reading photos prepared by participants. Coffee Break 10:00-10:30 Presentation of results obtained by participants. Scientific discussion and recommendations. Conclusion.
Lunch 12-13:30 12:30 - 14:30 Samples processing collected following different diagnostic procedure (Cell culture and PCR). Coffee Break 14:30-15:00	Lunch 12-13:30 12:30-14:30 Cell observation. Coffee Break 14:30-15:00	Lunch 12-13:30 12:30-14:30 qPCR analysis.	Lunch 12-13:30 12:30-15:00 Course evaluation Last minutes questions and Good Bye. Wrapping up of the course and questionnaire fill out (coffee at the table).	Lunch 12-13:30 12:30-15:00



Methods for implementation of surveillance procedures for listed fish diseases Monday the 10th to Friday the 14th of October 2016

5 days course including one day on a fish farm for sampling in the field followed by four days with alternating theoretical lectures and practical work

Core elements in the course is fish cell line cultivation for virology, Real-Time PCR and identification and discussion of pitfalls and perform troubleshooting of the most used methods for diagnosis of important fish pathogens

Tutors: Niels Jørgen Olesen, Niccolo Vendramin, the labtechnician group of EURL



Introduction to Histopathology in fish diseases in from Monday the 17th to Thursday 20th of October 2016

4 days course with alternating theoretical lectures and practical work at the microscope

The purpose is to introduce both general and specific pathology with focus on how to work with histopathology all the way from sampling, preparation (trimming) to the interpretation of the slides. Furthermore there will be an introduction to immunochemistry with the possibility for evaluating immunostained slides with focus on identification of typical pitfalls and critical review of the slides.

Tutors: Ole Bendik Dale and Tine M. Iburg



Day 1	Day 2	Day 3	Day 4
Section 1 Course introduction Participants will present themselves. Coffee Break 10:00-10:30 Theoretical introduction and practical exercise on sampling tissues and organs from different fish sites...	Section 2 General pathology principles Theoretical Coffee Break 10:00-10:30 Microscopy room slide observation.	Section 3 Use of IHC Theoretical Coffee Break 10:00-10:30 Microscopy room IHC slides observation	Section 4 Microscopy Room Course assessment Participants will be given slides with lesion and will have to describe them in an atomic scale. General discussion of the slides provided will follow.
Lunch 12-13:30 12:30 - 14:30 Normal histology and artifacts.	Lunch 12-13:30 12:30 - 14:00 General pathology part II Definition and description of lesions Focus on systemic infection Coffee Break 14:00-14:30 15:00-16:30 Microscopy room II	Lunch 12-13:30 12:30-14:00 Coffee Break 14:00-14:30 15:00-16:30 Microscopy room II	Lunch 12-13:30 12:30-14:30 General discussion on cases brought by participants Course evaluation Coffee, cakes and goodbye 14:30-15:00



Histopathology workshop in fish diseases Friday 21th October 2016

One day work shop with practical work and discussion at the microscope

The purpose is to give fish histopathologist a possibility to meet and present and discuss cases, both typical cases and problem cases.

Participants must bring a case and be willing to present the case using a microscope. No specific subject this year.

Participants in the histopathology course are welcome without a case

EURL will cover the cost for the venue and lunch, but other travel and accommodation and food expenses is to be covered by the participants

Facilitators: Ole Bendik Dale and Tine M. Iburg