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EURL training courses 2018



WEDNESDAY 18 APR 18 |

Dear Colleagues,

The EURL for fish diseases hereby announce two training courses, which will be held in October 2018.

Please find the official announcement [here](#).

Feedback from earlier years participants has been very positive and the courses therefore covers more or less the same topics as previous years – with adjustments. However, this year we have added an extra day to the histopathology course, and we expect to use that extra day to cover crustacean diseases.

Please find the programme for "Methods for implementation of surveillance procedures for listed fish diseases" in week 41 from Monday the 8th to Friday the 12th of October 2018 [here](#), and

"Introduction to histopathology in fish and crustacean diseases" in week 42 from Monday the 15th to Friday the 19th of October 2018 [here](#).

The [registration](#) will be open from today and close on the 5th of August 2018.

Please feel free to contact us if you have questions regarding the courses.

Yours sincerely,

The EURL fish team

Programme for:

Methods for implementation of surveillance
procedures for listed fish diseases

8 to 12 October 2018



European Union Reference Laboratory for Fish Diseases

National Institute of Aquatic Resources, Technical University of Denmark



(Draft programme, subject to changes)



Day 1	Day 2	Day 3	Day 4	Day 5
Section 1 Visit to fish farm and DVFA in Jutland	Section 2 Laboratory introduction	Section 3 qPCR analysis	Section 4 Cell culture and phylogeny	Section 5 Cell culture /bacteriology and evaluation
8:00 – 11:00 Transport by car to Danish Veterinary and Food Administration in Jutland	9:00 - 10:30 Participants will be introduced to the laboratory <u>Coffee break</u> 10:30 - 10:50	9:00 - 12:15 PCR and Real Time-PCR theory Results analysis <u>Coffee break</u> 10:30 - 10:50	9:00 - 10:00 Cell culture preparation for diagnostic purpose, titration and IFAT <u>Coffee break</u> 10:30 - 10:50	9:00 - 12:10 (Split in to two teams) Team 1 - Cell observation
11:00 – 12:15 Surveillance and control of fish diseases in Denmark	10:50 - 12:15 Theoretical introduction to the use of cell culture and qPCR for surveillance programs for non-exotic listed fish disease in Europe	Practical exercises PCR and Real Time PCR Troubleshooting	10:50 - 12:15 Titration procedure, viral titre calculation	Team 2 - Fish bacteriology demonstration <u>Coffee break</u> 10:30 - 10:50
Lunch: 12:15 – 13:00	Lunch: 12:15 - 13:00	Lunch: 12:15 - 13:00	Lunch: 12:15 - 13:00	Lunch: 12:15 - 13:00
13:00 – 15:00 Visit to Vejen Mølle fish farm for sampling	13:00 - 15:00 Sample preparation for different diagnostics procedures (Cell culture and PCR)	13:00- 15:00 The diagnostic laboratory – PCR Flow <u>Coffee break</u> 14:30 - 15:00	13:00- 13:30 Use of cell culture in fish virology 13:30 – 17:00 Blast analysis and practical exercise	Team 2 - Cell observation Team 1 - Fish bacteriology demonstration
15:00 – 18:00 Transport by car to hotel Cabinn	<u>Coffee break</u> 14:30 - 15:00 <u>19:00</u> Social dinner	15:00 - 16:30 Sequencing theory and practical exercises	<u>Coffee break</u> 14:30 - 15:00 Introduction to phylogenetic analysis	Team 1 - Fish bacteriology demonstration Scientific discussion and recommendations Conclusion Course evaluation



Programme for:

Introduction to histopathology in fish and crustacean
diseases

15 – 19 October 2018



Day 1	Day 2	Day 3	Day 4	Day 5
Section 1	Section 2	Section 3	Section 4	Section 5
<p>8:00-9:45 Course introduction Participants will present themselves</p> <p>Place: Auditorium</p> <p><u>Coffee Break</u> 9:45-10:15</p> <p>Walk to necropsy room at DTU VET -FRB 15 min</p> <p>10:30-12:00 Sampling for histopathological examination. Theory and Practice Place: Necropsy room DTU Vet Walk back to KU 15 min</p>	<p>8:00-9:30 Lecture on pathology and histopathology</p> <p>Place: Auditorium</p> <p><u>Coffee Break</u> 9:30-10:00</p> <p>10:00-11:30 Microscopy room I</p> <p>Practical exercise</p>	<p>8:00-9:30 Lecture on IHC I</p> <p>Place: Auditorium</p> <p><u>Coffee Break</u> 9:30-10:00</p> <p>10:00-11:30</p> <p>Lecture on IHC II</p> <p>Place: Auditorium</p>	<p>8:00 - 9:30 Microscopy Room</p> <p>Show and tell of cases by Ole Bendik Dale with discussion and participation of course participants</p> <p><u>Coffee Break</u> 9:30-10:00</p> <p>10:00- 11:30 Microscopy room More show and tell</p>	<p>8:00 – 15:30</p> <p>The day is allocated to crustacean diseases</p> <p>Details will be announced later</p>
Lunch 12.15 - 13:00	Lunch 11.30- 12:15	Lunch 11.30 - 12:15	Lunch 11:30 - 12:15	
<p>13:00 – 15:30 Lecture on pathology and histopathology</p> <p>Place: M1</p>	<p>12:15 – 13:30 Lecture on pathology and histopathology Place Auditorium</p> <p><u>Coffee Break</u> 13:30-14:00</p> <p>14:00-16:00 Microscopy room II Practical exercise</p>	<p>12:15 - 13:30 Theoretical exercise on IHC Place: Auditorium</p> <p><u>Coffee Break</u> 13:30 – 14.00</p> <p>14:00-16:00 Microscopy room III Practical exercise</p>	<p>12:15-14:45 General discussion on selected cases brought by participants</p> <p>14:45-15:15 Course evaluation Coffee, cakes and goodbye</p>	

Draft programme (subject to changes)

Suggestions to courses for 2019?

- How to conduct fish experiments (AQUAEXCEL), spring 2019
- Other topics related to the EURL function (listed, emerging or infectious diseases) could be:
 - Course on diseases for specific fish species (cyprinids?)
 - Course on diseases for specific areas (Mediterranean?)
 - Course on disease in recirculated aquaculture systems (RAS)
 - Etc.