

Announcement of the 2019 Training Courses



MONDAY 27 MAY 19 |

Two EURL training courses in 2019 in diagnostics of fish and crustacean diseases is hereby announced to be held during week 41 and 42, 2019.

Programme for:

EURL-Fish training course:

Methods for implementation of surveillance
procedures for listed fish diseases,

7th to 11th October 2019

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 and sample preparation	Section 3 PCR analysis and Cell culture methods	Section 4 PCR, blast and phylogeny	Section 5 Cell culture /bacteriology and evaluation
<p>8:00 – 11:00 Transport by car to Danish Veterinary and Food Administration, DFVF Vejen in Jutland. Start in front of Cabinn Hotel 11:00 – 12:15 Aquaculture surveillance and sampling procedures in Denmark, By DVM Morten Fruergaard, DFVF. Control of VHS in DK by NJ Olesen</p>	<p>9:00 - 10:30 Introduction and practicalities. Participants experience and expectations <u>Coffee break 10:30 - 10:50</u> 10:50 - 12:15 Theoretical introduction to sample preparation, cell cultivation, virus ID and qPCR for surveillance programs for the non-exotic listed fish disease in Europe</p>	<p>9:00 – 10:30 : PCR and real time PCR theory. <u>Coffee break 10:30 - 10:50</u> 10:50 - 12:15 Result analysis Practical exercises.</p>	<p>9:00 - 10:30 PCR and Real Time PCR Troubleshooting. The diagnostic laboratory – PCR flow. <u>Coffee break 10:30 - 10:50</u> Sequencing theory and practical exercises</p>	<p>9:00 - 12:10 Team 1,2 and 3 - Cell observation Team 4, 5 and 6 - Fish bacteriology demonstration <u>Coffee break 10:30 - 10:50</u> Team 4, 5 and 6 - Cell observation Team 1,2 and 3 - Fish bacteriology demonstration</p>
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
<p>13:00 – 13.30 Transport to Hesselho Fish Farm 13:30 – 15:30 Inspection and sampling 15:30 – 19:00 Transport by car to Hotel Cabinn, Frederiksberg</p>	<p>13:00 - 14:30 Team 1,2 and 3: Sample preparation for cell culture, PCR and bacteriology on samples collected Monday Team 4, 5 and 6: Practical cell culture passaging and production of 24 well plates <u>Coffee break 14:30 - 14:45</u> 14:45- 16.45 Change 19:00 - Social dinner</p>	<p>13:00- 16:30 13:00-13:45 Reading cells and inoculation of samples 13:45-14:30 Use of cell culture in fish virology <u>Coffee break 14:30 - 15:00</u> <u>15:00-16:00</u> Titration procedure, viral titre calculation. Barcoding cell lines</p>	<p>13:00 – 17:00 Blast analysis and practical exercise <u>Coffee break 14:30 - 15:00</u> Introduction to phylogenetic analysis</p>	<p>13:00 – 14:45 Assignment + presentation and assessment of data obtained by each group Discussion and recommendations Conclusion 14:45-15:00 Course evaluation, coffee and goodbyes</p>



Programme for:

EURL-Fish training course:

Histopathology in fish and crustacean
diseases

14th - 18th October 2019



Draft programme (subject to changes)

Day 1	Day 2	Day 3	Day 4	Day 5
Monday	Tuesday	Wednesday	Thursday	Friday
<p>8:00-9:45 Course introduction Participants will present themselves</p> <p>Place: Auditorium</p> <p>Coffee Break 9:45-10:15</p> <p>10:30-12:00 Sampling for histopathological examination. Theory and Practice</p> <p>Place: Necropsy room KU</p>	<p>8:00-9:30 Lecture on pathology and histopathology</p> <p>Place: Auditorium</p> <p>Coffee Break 9:30-10:00</p> <p>10:00-11:30 Microscopy room I</p> <p>Practical exercise</p>	<p>8:00-8:30 Introduction to DTU e-forms reimbursement</p> <p>8:30-9:30 Lecture on IHC I</p> <p>Place: Auditorium</p> <p>Coffee Break 9:30-10:00</p> <p>10:00-11:30 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>Coffee Break 9:30-10:00</p> <p>10:00- 11:30 Microscopy room More show and tell</p>	<p>8:00 – 15:30 Overview of Crustacean Tissues - Structure and Function</p> <p>Overview of WSSV & Overview of TSV and YHV</p> <p>Coffee Break 9:30-10:00</p> <p>OIE listed diseases and Emerging Pathogens</p> <p>Microscopy Practical</p>
Lunch 12:15 -13:00	Lunch 11:30-12:15	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: Auditorium</p>	<p>12:15 – 13:30 Lecture on pathology and histopathology Place: Auditorium</p> <p>Coffee Break 13:30-14:00</p> <p>14:00-16:00 Microscopy room II Practical exercise</p>	<p>12:15-13:15 Theoretical exercise on IHC 1 Place: Auditorium</p> <p>Coffee Break 13:15 – 13.45</p> <p>13:45-15:45 Microscopy room III Practical exercise</p> <p>15:45 – 16:30 Theoretical exercise on IHC 2 Place: Auditorium</p>	<p>12:15-14:45 Introduction to crustacean anatomy</p> <p>14:45-15:15 Sampling for histopathological examination of crustacean. Theory and Practice Place: Necropsy room KU</p>	<p>12:15-15:15 Microscopy Practical and Demonstration of Slide Scanner</p> <p>Show and tell of cases by Kelly Bateman with discussion and participation of course participants</p> <p>15.15 - Coffee, cakes and evaluation of the crustacean day Place: auditorium</p>



Timeline – procedure

- 1) First announcement send by email Friday 24th of May – **PLEASE DISTRIBUTE FURTHER**
- 2) Send application form AND cover letter to Linda and Lis until **16th of August**
- 3) All application compiled and scrutinized
- 4) A feedback to each **applicant on 30th of August**

Planning and Conducting experimental infection trials.

Date: 11-15 November

Day 1	Day 2	Day 3	Day 4
INTRODUCTION	THE TRIAL	SPECIAL SESSION: Salmonid and Cyprinids	SPECIAL SESSION: Sea bass / Sea Bream and Immunology/Vaccinology
9:00-10:00 Course introduction Practical information Participants will present themselves <u>Coffee Break 10:00-10:30</u> 10:30-12:00 Use of animal for research Use of fish for fish disease research	9:00-10:00 Trial design: Which question to answer Preparation work Standardizing environmental conditions. <u>Coffee Break 10:00-10:30</u> 10:30-12:00 <u>Visit to DTU VET experimental facility</u> <u>Conducting a trial</u> - Monitoring - Sampling	8:30-10:00 Salmonid physiology: <u>Coffee Break 10:00-10:30</u> 10:30-12:00 Trial design for bacteria and virus in Rainbow trout /salmon DTU	8:30-10:00 Bass and bream physiology: <u>Coffee Break 10:00-10:30</u> 10:30-12:00 Trial design Parasite in Bass and bream CSIC
Lunch 12 -12:30	Lunch 12 -12:30	Lunch 12 -12:30	Lunch 12 -12:30
12:30 – 14:30 Fish diseases experiments: - Pathogenicity trial - Pathogenesis study Visit to DTU tank facilities <u>Coffee Break 14:30-15:00</u> 15:00-16:30 <u>Practical exercise. Designing trial for pathogenicity and pathogenesis</u>	12:30 – 14:00 Analysis of samples collected <u>Coffee Break 14:00-14:30</u> 15:00-16:30 Compiling and understanding data <u>Practical exercise. Raw data given and discussion on output of the trial</u>	12:30- 14:00 Carp physiology : special requirements for trial design NAIK <u>Coffee Break 14:00-14:30</u> 14:30-16:30 Use of carp isogenic for fish model NAIK	12:30-14:00 infection models in vaccinology and immunology.UOS <u>Coffee Break 14:00-14:30</u> 14:30-16:00 infection models in vaccinology and immunology. UOS 16:00-17:00 Course evaluation, conclusions cakes