



## **Announcement of the 2023 training course organized by the EURL for Fish and Crustacean Diseases**

Dear colleagues,

We hereby announce that the EURL training course in 2023 in diagnostics of fish diseases will be held during week 41, 2023. Please feel free to forward and circulate this invitation to colleagues that might be interested in this training course.

The course is entitled:

- **“Methods for implementation of surveillance procedures for listed fish diseases” in week 41 from Monday the 9<sup>th</sup> to Friday the 13<sup>th</sup> of October 2023**

**A preliminary programme is attached to this invitation and can be downloaded from our website [www.eurl-fish.eu](http://www.eurl-fish.eu)**

The EU commission has allocated a specific budget for organizing and holding these training courses, meaning that we can offer up to 15 participants from NRLs of EU Member States the following package.

**Package for up to 15 NRL representatives of EU Member states includes:**

- No course fee
- Travel expenses up to 500 € will be refunded (economy fares)
- Up to five nights at hotel incl. breakfast will be paid and booked by the EURL
- Lunches and coffee breaks will be included
- One social dinner

**For other members of governmental institutions, such as Universities, Veterinary institutes etc. the package includes:**

- No course fee
- Travel expenses and accommodation must be covered by the participant
- Fee for lunch and coffee of around 25 € per day plus fee for social dinner

**Finally, members of private companies are welcome to apply for participation. The package offered to these participants includes:**

- Course fee (700 €)
- Travel expenses, accommodation and daily allowances must be covered by the participant
- Fee for lunch and coffee of around 25 € per day plus fee for social dinner



**Registration will be open until July 31<sup>st</sup> 2023:** in order to finalize the registration we ask you to fill out the registration form provided with this invitation letter. The registration form has to be followed by a letter of motivation, where your background and working experience are described. The form and the motivational letter have to be sent by email to Linda Stuhr Christensen [lschr@aqua.dtu.dk](mailto:lschr@aqua.dtu.dk) . The information obtained will solely be used to evaluate participants according to the foreseen activities.

On August the 11<sup>th</sup> a letter to all applicants will be submitted indicating if they are accepted for participation. Due to space limitation we have to restrict number of participants to 15 persons .

The EURL will prioritize applications from NRL's in the EU Member States, afterwards places will be allocated on a "first come first served" basis.

For further information please contact consult our website at [www.eurl-fish.eu](http://www.eurl-fish.eu) or contact Linda Stuhr Christensen [lschr@aqua.dtu.dk](mailto:lschr@aqua.dtu.dk)

Best regards,

The EURL fish team

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Draft programme, subject to changes

Day 1	Day 2	Day 3	Day 4	Day 5
Section 1 Visit to fish farm and Veterinary services 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, in Jutland.</p> <p>11:00 – 12:15 Introduction to surveillance programs</p> <p>Aquaculture surveillance and sampling procedures in Denmark</p>	<p>9:00 - 10:30 Introduction and practicalities. Participants experience and expectations</p> <p><u>Coffee break 10:30 - 10:50</u></p> <p>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.</p> <p><u>Coffee break 10:30 - 10:50</u></p> <p>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.</p> <p><u>Coffee break 10:30 - 10:50</u></p> <p>Sequencing theory and practical exercises</p>	<p>9:00 - 10:30 Cell culture observation with different reference viral isolates</p> <p><u>Coffee break 10:30 - 10:50</u></p> <p>10:50-12:15 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 Fish Farm</p> <p>13:30 – 15:30 Inspection and sampling</p> <p>15:30 – 19:00 Return to Hotel</p>	<p>13:00 - 14:30 Sample preparation for cell culture, PCR and bacteriology on samples collected Monday</p> <p><u>Coffee break 14:30 - 14:45</u></p> <p>14:45- 16.45 Practical cell culture passaging and production of 24 well plates</p> <p>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</p> <p><u>Coffee break 14:30 - 15:00</u> <u>15:00-16:00</u></p> <p>Titration procedure, viral titre calculation. Barcoding cell lines</p>	<p>13:00 – 17:00 Blast analysis and practical exercise</p> <p><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>