

## EURL-Fish training course:

Methods for implementation of surveillance procedures for listed fish diseases,

5th to 9th October 2020

### In 2019 we were used to











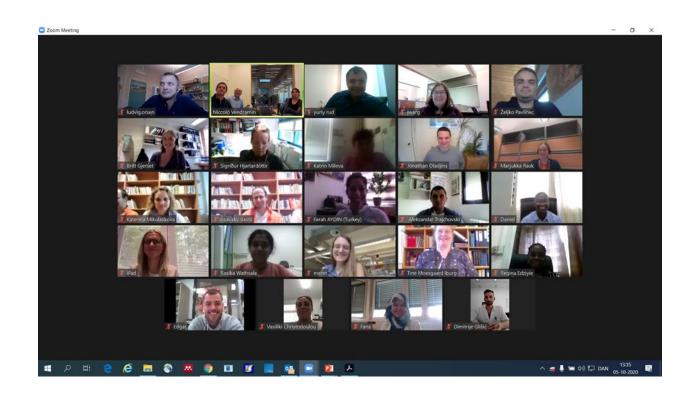




of Denmark

### In 2020 we did like this



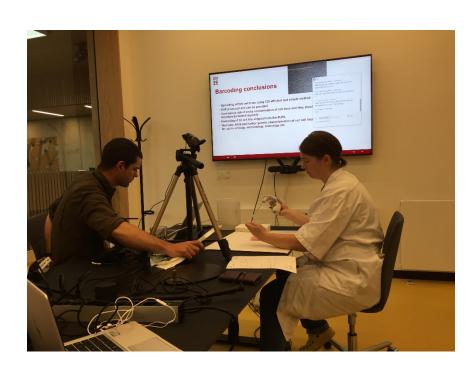




Day 1	Day 2	Day 3	Day 3	Day 5
Section 1  Legislation and implementation of surveillance plans.	Section 2 Sampling procedures for surveying listed fish diseases Theoretical introduction to	Section 3  The use of cell culture for surveying listed fish diseases  Opportunities with cell culture	Section 4  qPCR methods, sequencing  and bioinformatics for  surveying listed fish  diseases	Section 5 Wrap up session, evaluation of the course and general recommendations
Course introduction Participant presentation  Lectures: Aquaculture surveillance and sampling procedures in Denmark. Control of VHS in DK by NJ Olesen	sample preparation, cell cultivation, virus ID and qPCR for surveillance programs for the non-exotic listed fish disease in Europe  Demonstration of sampling procedures, discussion on pros and cons of different sampling strategies etc	and fish diseases  Use of cell culture for implementing surveillance programs for listed fish disease  Demonstration of cell culture passaging, and viral titration procedures on cell lines  Lectures on titration  Demonstration of cytopathic effect	PCR and real time PCR theory. PCR and Real Time PCR Troubleshooting. The diagnostic laboratory – PCR flow. Result analysis Practical exercises Sequencing theory and practical exercises Blast analysis and practical exercise Introduction to phylogenetic analysis	Assignment + presentation and assessment of data obtained by each group Discussion and recommendations Conclusion



# Teaching on zoom – a combination of lectures, demonstration live, sharing microscope screen and assignments for the participants to be done in breakout rooms





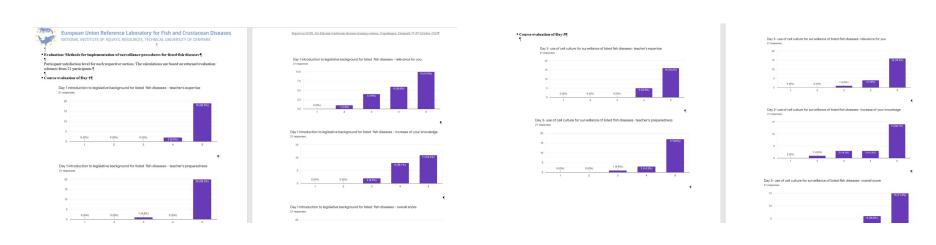
### Opportunity to give access to many more participants from countries far away

23 participants. Thanks to the organization on virtual platform we could allow the participation of almost the double amount of participants compared to when the course is organized physically, moreover this have open opportunities for attendance from far countries such as Ghana and USA.

#### **Evaluation**



- Generally well perceived.
- Some technical details to be optimised
- Allowed larger number of participants, no possibility for practical exercise, ok for demonstration



Anonymous Evaluation on google forms – will be used also for the evaluation of the AW



### **Training course in 2021**

- Organization of training course(s) will necessarily have to deal with development of Covid-19 pandemics
- Internal discussion in the EURL will take place to ensure safety and possibility of conducting the courses at DTU premises
- Wishes and suggestion from the audience are welcome and will certainly be taken into consideration.