



# European Union Reference Laboratory for Fish and Crustacean Diseases

NATIONAL INSTITUTE OF AQUATIC RESOURCES, TECHNICAL UNIVERSITY OF DENMARK

Preliminary program for EURL training course 2020 – October 5<sup>th</sup> to October 9<sup>th</sup>

Day 1	Day 2	Day 3	Day 3	Day 5
<p><b>Section 1</b> Legislation and implementation of surveillance plans.</p>	<p><b>Section 2</b> Sampling procedures for surveying listed fish diseases</p>	<p><b>Section 3</b> The use of cell culture for surveying listed fish diseases</p>	<p><b>Section 4</b> qPCR methods, sequencing and bioinformatics for surveying listed fish diseases</p>	<p><b>Section 5</b> Wrap up session, evaluation of the course and general recommendations</p>
<p>13-16</p> <p>Course introduction Participant presentation</p> <p>Lectures: Aquaculture surveillance and sampling procedures in Denmark.</p> <p>Control and eradication of VHS in DK</p> <p>The legislative basis for fish health management and the new animal health law in EU</p>	<p>13-16</p> <p>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>Demonstration of sampling procedures, discussion on pros and cons of different sampling strategies etc</p>	<p>13-16</p> <p>Cell culture and fish diseases</p> <p>Use of cell culture for implementing surveillance programs for listed fish disease</p> <p>Demonstration of cell culture passaging, and viral titration procedures on cell lines</p> <p>Lectures on titration</p> <p>Demonstration of cytopathic effect</p>	<p>13-16</p> <p>PCR and real time PCR theory. PCR and Real Time PCR Troubleshooting. The diagnostic laboratory – PCR flow.</p> <p>Result analysis Practical exercises Sequencing theory and practical exercises Blast analysis and practical exercise Introduction to phylogenetic analysis</p>	<p>13-16</p> <p>Assignment in groups + presentation and assessment of data obtained by each group Discussion and recommendations Conclusion Course evaluation,</p>