

"Sampling and diagnostic procedures for surveillance of listed fish diseases"



DTU Vet, Technical University of Denmark



Training course 2013 30/05/2013

European Union Reference Laboratory for Fish Diseases 21-25 January 2013

Aarhus, Denmark

Susie Sommer Mikkelsen, PhD

Training course 2013

17th Annual Workshop of the National Reference Laboratories for Fish Diseases



DTU Vet National Veterinary Institute

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Programme

Day 1 • Fish Farm visit Day 3 • ELISA

• Processing of collected samples Opening of ampoules

• Real-time PCR

Homogenation, centrifugation and antibiotics treatment

• IFAT

Cell culture work

Mycoplasma testing

• Inspection of inoculated cells

Microscopy of cells

• Titer calculation

Freezing and thawing

• Discussion and evaluation

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Fish Farm near Vejle



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17th Annual Workshop







ELISA and real-time PCR









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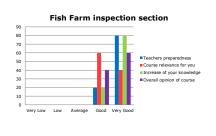
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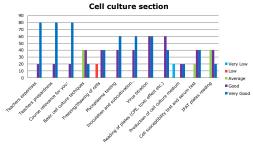
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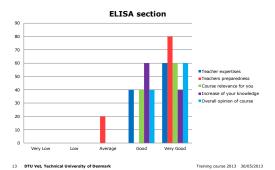
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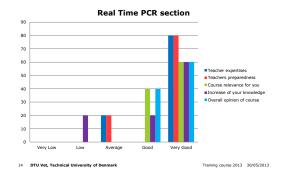
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What did you find good about the course?



- $\bullet\,$ Very nice to see the whole process
- Learned a lot in a short time
 Hands on in the lab
- Hands on in the lab
 Well prepared in the lab

Suggestions for improvements?



Papers in advance of the course should have right dates

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"Advanced Molecular techniques and bioinformatics"





28-31 January 2013

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Guest teachers

Heike Schütze Dr. rer. nat. FLI, Germany





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December - - 17/04/2001

Programme



PCR Basics and Advanced PCR

Day 2

• Sequencing and next-generation sequencing

Day 3

Phylogeny

Day 4

Real case stories

• Discussion and evaluation



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Teacher expertises

Teachers preparedness
Course relevance for you
Increase of your knowledge
Overall opinion of course

Very Low Low Average Good Very Good

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Average

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PCR section

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Average



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Phylogeny case stories 100 60 50 Course relevance for you ■Increase of your knowledge

What did you find good about the course?

- Well-planned lectures (Not too short, not too long, but very informative)
- Reasonably structured days (easy to obtain knowledge)
- Extremely friendly collective (teachers, students, lab workers)
 Much useful information
- Very well organized, very good expertise and preparedness of teachers and as usually very friendly colleagues
- Practical orientation and giving us excess and suggestions on usefull programs to work with
- I think the course was scientifically very good, and it really increased my understanding and knowledge about sequencing and phylogeny of viruses
- The courses are useful for our jobs
- The teachers expertises, well preparedness, their patience give us deep impression. The course is well organised.
- That it was not too "compact". (plenty of time for each presentation, not
- NGS: Good for me, but some thought it became very fast very technical, esp. If you were not too familiar with the methods in detail.
- Well prepared and very nice teachers. The programs demonstrated fitted perfectly with what I had used before/learned. Good space/breaks in between, Excellent timing.
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Suggestions for improvement?



- Might be good to perform more advanced course as well where you can go into topic more deeper
 Very interesting course as theoretical, just minor improvements as mentioned
- More practice
- · Keep it continuing please
- Non. Very nice course indeed.

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- The information about practicalities should really be improved; there was a lot of confusion about the dates, and the coordinator did not send consistent and corrected information
- More practical laboratory work or demonstration of experiment if possible
- Better information of times and dates! It was not good to have to buy expensive plane tickets because we were not sure when the course was, exactly.
- Agree on which software to use before, so we could download. · Information ahead of course was confusing, e.g. dates. Difficult to order airplane
- tickets and hotel, etc.
- Bio edit demo a bit confusing but managed in the end.
- A bit more time to practice with the programs. My impression with CLC was very superficial. Should have had more practice. Maybe too superficial knowledge given on some subjects.

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Suggestions for topics next year?

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