



DIPNET Epidemiology Seminar

Surveillance of Aquatic Animal Diseases

Objectives and challenges to surveillance system design with special reference to demonstrating exchange of pathogens between wild and farmed populations

Faculty of Veterinary Science, University of Zaragoza, Spain
Tuesday 30th May to Thursday 1st June, 2006

Objective

To provide advanced skills in the design and implementation of practical and effective aquatic animal disease surveillance systems, capable of meeting current and future legislative requirements, as well as providing evidence necessary to identify pathogen exchange between farmed and wild populations

This 3-day course aims to address this problem by providing specialist technical training on the principles and design of aquatic animal disease surveillance systems, issues of surveillance to identify cases of pathogen exchange, and collaborative design of example surveillance systems for a range of species and culture systems.

Program

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| Day 1
30 th May | <ul style="list-style-type: none">• Principles of disease surveillance<ul style="list-style-type: none">○ Introduction to surveillance: definitions, objectives, classification○ Sampling strategies, stratification...○ Prevalence and distribution surveys: sample size calculation, data analysis...○ Freedom from disease: Sample size calculation, data analysis• Group Work: Design example surveillance systems |
| Day 2
31 st May | <ul style="list-style-type: none">• Questions – challenges to surveillance systems<ul style="list-style-type: none">○ Limitations of diagnostic tests○ Pathogen exchange○ Pathogen characterization (molecular techniques)• Group work: Re-design systems to account for above challenges |
| Day 3
1 st June | <ul style="list-style-type: none">• Group work presentations• General discussion |
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Teaching materials

Participants will be given a copy of the course notes, as well as a CD containing all relevant software and electronic resources.

Lecturers

The course will be presented by the members of the DIPNET Work Group 3:

- Ignacio de Blas. University of Zaragoza, Spain
- Laurence Miossec. IFREMER, France
- Angus Cameron. AusVet, Australia
- Carlos Dopazo. University of Santiago of Compostela, Spain
- Inger Dalsgaard. Danish Institute for Fisheries Research, Denmark