

Training Course 1:
Pathology of Aquatic Animal

Background:

Aquaculture is still the fastest growing food-production sector in the world. It provides a significant supplement to, and substitutes for, wild aquatic organisms and creates employment, generates income and provides opportunities for human development. However, disease is a primary constraint to the growth of many aquaculture species, and is now responsible for severely impeding both economic and socio-economic development in many countries of the world. Addressing health questions with both pro-active and reactive programs has, thus, become a primary requirement for sustaining aquaculture production and product trade. The course provide information related to characteristic of common diseases in aquatic animal, the diagnosis, prevention and treatment of diseases.

Learning outcome:

- General knowledge of aquatic pathology
- Be able to diagnose diseases with clinical symptoms
- Skills in making pathological tests in the laboratory
- Control and treatment disease outbreak in aquaculture

Lecture: 4 days (3 hours/day)-Classroom

- Lecture 1: Parasitic disease
- Lecture 2: Bacterial disease
- Lecture 3: Fungal disease
- Lecture 4: Viral disease

Practical: 4 days- Disease Lab

- Day 1: Parasitology: Observe wet mount, fixative and stain samples (3 hours)
- Day 2: Bacteriology: Isolation, Staining, Motility, Biochemistry Test, Antibiotic Sensitivity Test (2 days, 3 hours/day)
- Day 3: Fungal: General observation, Isolation (2 days, 3 hours/day)
- Day 4: Virology: Histopathological observation, PCR Test (1 day, 6 hours).

Final report including business plan: Each trainee is required to prepare a report on what they practice at laboratory – The length of the report should be ranged from 5- 10 pages.

Presentation of results by the group of trainees (Seminar Room)

At the end of practical session, group presentation will be organized, in which they will discuss what lesson they may technically learn from the training. - Wrap-up by Instructor (1 hour)

Feedback and evaluation by participants

Resource persons: Ho Thi Truong Thy, Vo Van Tuan, Tran Huu Loc, Nguyen Vi Van