Dalhousie University
Faculty of Agriculture
Graduate Module Course

Molecular Techniques Used in Aquaculture

Instructor: Dr. Sarah Stewart-Clark
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Schedule: October-November
Time: one 4 hour lab a week plus 1 hour discussion of results
Location: Haley 218

Module Description

This module will consist of hands on laboratory activities of current biotechnology used in the aquaculture sectors. The techniques included will be DNA, RNA and protein extractions, amplification with PCR and qPCR, cDNA synthesis, agarose gel electrophoresis, sequencing and any technique that students need to know for their MSc research.

Requirements

Graduate students with interests in genomics and aquaculture will be given a priority.

Module Content

The module will include 5 weeks of Four hour labs per week and one hour discussion periods. The content will focus on the application of molecular techniques with a variety of samples. This module will focus on bringing students up to date on the latest techniques and equipment used in molecular biology research. A final lab report will be written up following each lab. Students are encouraged to use their own samples if possible. If not we will provide samples for them to complete each technique.

Participation (20%), Lab reports (80%)

Participation is evaluated on the basis of contributions to discussions in meetings.