Dalhousie University
Faculty of Agriculture
Graduate Module Course

Aquaculture Genomics

Instructor: Dr. Sarah Stewart-Clark
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Schedule: August 31st - September 25th
Time: 1 lecture and 1 discussion hour a week, dates to be decided
Location: TBA

Module Description
This module will consist of lectures and group discussions on current biotechnology used in the aquaculture sectors. The theory behind sample preservation, extraction, amplification, sequencing, genotyping, cloning and GMO technology will be presented so that students will have a sound understand of the theoretical basis for the genetic techniques that are being used in the aquaculture industry.

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

Module Content
The module will include 5 weeks of one hour lectures and one hour discussion periods. The content will focus on the molecular structures and biochemistry of RNA, DNA and proteins. This module will focus on how we have created the techniques that we use in molecular biology by manipulating the molecular structures of RNA, DNA and protein. The lecture will convey background information and the discussion group will focus on discussing the use of these techniques in the aquaculture sector. The students will choose one technique to create a review paper on for the class.

Participation (20%), Review Paper (50%) Discussion Question Answers (30%)
Participation is evaluated on the basis of contributions to discussions in meetings.