# Chapter 38

#### Learning Objectives:

* Describe how sensory feedback can control rhythmic motor output to striated muscle.
* Describe the role of the striated adductor muscle in swimming.
* Describe the role the smooth adductor muscle in swimming.
* Construct a hypothesis.
* Design an experiment to test a hypothesis.
* Analyze and interpret results.

**Directions:**

Distribute the “How Do Scallops Swim” case study to class ~1 week prior to in-class case study time. Have students get into groups of 3-4 students or assign students into groups of 3-4 students. Have students discuss the case study amongst their group. Each group submits a paper with their respective group’s answers to each of the questions.

You can also distribute the case study part by part so the case study work can encompass several weeks (weeks dependent on how often class meets, etc.). Give students ~20-30 minutes per class to work on the respective part.

Or this case study can be distributed as the instructor sees fit.

Use the following link to access this case study: <http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=686&id=686>