

## **Lab 9: Animal Behavior**

**Cricket Behavior Experiments and Questions pages C59-C64**

**LAB QUIZ #2 NEXT WEEK !**

**Do not disturb the crickets**

**Do not put your face directly next to the Petri dish or aquarium**

**Try to remain calm and quiet while observing**

**Do not let the crickets escape, catch them or kill them!**

### **Introduction pg C59**

- Read introduction and review some of the behaviors you will observe today
- Key vocabulary and concepts: *innate behavior, learned behavior, territory, evolutionary basis for aggression, evolutionary basis for submission, motive for calls, motive for songs, naiveté, file, scraper, ovipositor, spermatophore, antenna, tympanic membrane*

### **Normal Behavior pg C59-C60**

- Follow directions 1-4
- Be sure to observe the cricket for 10-15 minutes and record a tally for **EVERY** change in behavior in table on page C64

### **Courtship Behavior pg C60**

- Follow directions 1-5
- Be sure to observe the cricket for 10-15 minutes and record a tally for **EVERY** change in behavior for each gender in table on page C64

### **Aggressive Behavior pg C60**

- Follow directions 1-5
- Be sure to observe the cricket for 10-15 minutes and record a tally for **EVERY** change in behavior for each male in table on page C64
- Keep track of the isolated and introduced male when tallying behaviors

### **Phototaxis pg C60**

- Follow directions 1-4 using light vs dark to test responses to light.....or
- Design some other experiment like 2 males into new territory or 1 territory male into another male's territory
- Be sure to observe the cricket for 10-15 minutes and record a tally for **EVERY** change in behavior for each male in table on page C64

### **Cricket Sound pg C61**

- Use the dissecting microscope at the front of the room to observe a file and scraper
- Use the dissecting microscope at the front of the room to observe the tympanic membrane

### **Optional Experiment pg C61**

- Design your own experiment to observe cricket behavior

**Observe Betta fish as examples of aggression**

*Answer ALL questions on pages C58-C59  
(they are all fair game for the upcoming quiz)*