

Lab 11: Animal Behavior¹Overview

In this lab you will observe the behavior of pillbugs and design an experiment to investigate their responses to environmental variables.

Objectives

Before doing this lab you should understand:

1. The concept of distribution of organisms in a resource gradient, and
2. the difference between kinesis and taxis.

After doing this lab you should be able to:

1. describe some aspects of animal behavior, such as orientational behavior, agonistic behavior, dominance display, or mating behavior, and
2. understand the adaptiveness of the behaviors you studied.

Introduction

Ethology is the study of animal behavior. Behavior is an animal's response to sensory input and falls into two basic categories: learned and innate (inherited).

Orientation behaviors place the animal in its most favorable environment. In taxis, the animal moves toward or away from a stimulus. Taxis is often exhibited when the stimulus is light, heat, moisture, sound, or chemicals. Kinesis is a movement that is random and does not result in orientation with respect to a stimulus. If an organism responds to bright light by moving away, that is taxis. If an organism responds to bright light by random movements in all directions, that is kinesis.

Agonistic behavior is exhibited when animals respond to each other by aggressive or submissive responses. Often the agonistic behavior is simply a display that makes the organism look big or threatening. It is sometimes studied in the laboratory with *Bettas* (Siamese fighting fish).

Mating behaviors may involve a complex series of activities that facilitate finding, courting, and mating with a member of the same species.

Part A: General observation of behaviors

In this lab you will be working with terrestrial isopods commonly known as pillbugs, sowbugs, or roly-poly's. These organisms are members of the Phylum *Arthropoda*, Class *Crustacea*, which also includes shrimp and crabs.

¹ Adapted from the College Board AP Biology Student Lab Manual, 2001 edition.

Ap Biology Lab 11 Animal Behavior Answers

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Gilman, Brian Peterson**



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