

# AP BIOLOGY Lab 12



**Animal Behavior Inquiry**

# PURPOSE

1. Make detailed observations of an organism's behavior
2. Design and execute a controlled experiment to test a hypothesis about a specific case of animal behavior



**Isopods**

# Key Concepts

- **Ethology:** study of animal behavior
- **Innate** (inherited) vs **Learned Behavior**
- **Taxis:** Movement of an org. away or to a stimulus.
- **Kinesis:** Movement that is random when exposed to a stimulus.



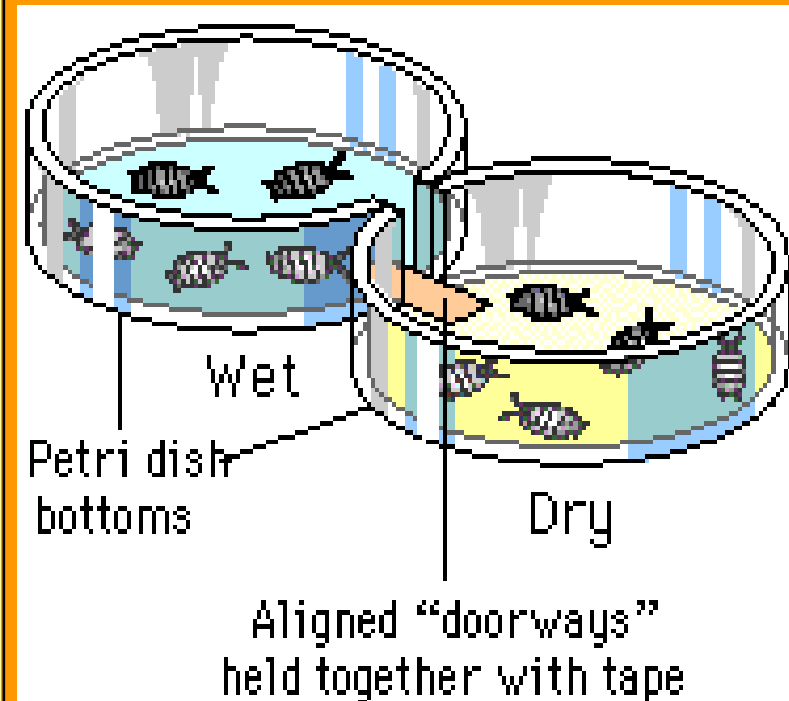
# THINGS to LOOK FOR

- **Agonistic Behavior:** Orgs. respond to each other by aggressive/submissive responses.
- **Mating Behavior:** Activities that help find, court, and mate with their OWN species



# Procedure For Part One

- Observe 10 pillbugs in a petri dish...watch them!
- Then, create a choice chamber. Line 1 side with moist filter paper.
- Put 5 on each side...record # of pillbugs on each side every 30 secs. After 10 mins, stop.



# Procedure Part Two



- Now, create your own behavior test!
- Variables: Temp, pH, Background color, Light, etc.
- Need hypothesis and record results!

# IN the Lab Report

- Title
- Purpose
- Materials
- Procedure: Part 1 and 2 (summarized)
- Data: Tables for Part 1 and 2
- Graphs: Part 1 and 2
- CER: For part two only



# ARGUMENT PRESENTATION ON A WHITEBOARD

The Guiding Question:

Our Claim: YOUR ANSWER TO THE GUIDING QUESTION

Our Evidence:



## ANALYSIS

SHOW A TREND,  
DIFFERENCE OR A  
RELATIONSHIP

This graph indicates...

This graph shows...

This graph suggests...

## INTERPRETATION

EXPLAIN WHAT  
THE ANALYSIS  
MEANS

Our Justification of the Evidence:

- We decided to use  
this evidence  
because...

- This evidence is  
important because...

- When we analyzed  
our data we assumed  
the following:

## REASON

EXPLAIN WHY  
THE EVIDENCE  
MATTERS



Ignore Chi Square  
Test for Now! We  
will do this next  
Friday!

**D.R.Y.**

**Dependent - Responding - Y Axis**

## Graph with TAILS

**T  
A  
I  
L  
S**

**Title**

**Axis**

**Intervals**

**Labels**

**Scale**



**M.I.X.**

**Manipulated - Independent - X Axis**