

## Laboratory Activity #1 — Student Laboratory Packet

**Relationships and Biodiversity***A Laboratory Activity for the Living Environment***Introduction**

*Botana curus* is a valuable plant because it produces Curol, a compound used for treating certain kinds of cancer. Curol cannot be produced in the laboratory. *Botana curus* grows very slowly and is on the endangered species list, so its ability to provide Curol in large quantities is limited.

Species that are more closely related to *Botana curus* are more likely to produce the important substance Curol. Three similar plant species that are plentiful (X, Y, and Z) may be related to *Botana curus*. You will work as a researcher to:

- gather structural and molecular evidence to determine which plant species is most closely related to the hypothetical species, *Botana curus*
- use this evidence to decide which plant species is most likely to serve as a source of the important substance Curol

**Safety**

- You will need to wear goggles while conducting Tests 4 and 5.
- Do not eat or drink anything in the laboratory while doing this laboratory activity.

**Important Note:** Record all of your data and answers on these laboratory sheets. You will need to keep them for review before the Regents Examination. Later, you will need to transfer your answers to a separate Student Answer Packet. Your teacher will use the packet in grading your work, and the school will retain it as evidence of your completion of the laboratory requirement for the Living Environment Regents Examination.

**Structural Evidence for Relationships**

Perform the following tests and record your observations in Table 1 on page 8 of this packet. Use a hand lens or microscope as needed.

*Test 1-Structural Characteristics of Plants*

- Do not remove the plant samples from the plastic bags/cards.
- Compare the structural characteristics of the plant samples. Record your observations in Table 1 (see page 8).

*Test 2-Structural Characteristics of Seeds*

- Do not remove the seed samples from the plastic bags/cards.
- Compare the structural characteristics of the seed samples. Record your observations in Table 1.



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# Relationships And Biodiversity Lab Regents Key

**Ying Liu**



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## **Table of Contents Relationships And Biodiversity Lab Regents Key**

1. Understanding the eBook Relationships And Biodiversity Lab Regents Key
  - The Rise of Digital Reading Relationships And Biodiversity Lab Regents Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Relationships And Biodiversity Lab Regents Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Relationships And Biodiversity Lab Regents Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Relationships And Biodiversity Lab Regents Key
  - Personalized Recommendations
  - Relationships And Biodiversity Lab Regents Key User Reviews and Ratings
  - Relationships And Biodiversity Lab Regents Key and Bestseller Lists
5. Accessing Relationships And Biodiversity Lab Regents Key Free and Paid eBooks
  - Relationships And Biodiversity Lab Regents Key Public Domain eBooks
  - Relationships And Biodiversity Lab Regents Key eBook Subscription Services
  - Relationships And Biodiversity Lab Regents Key Budget-Friendly Options

6. Navigating Relationships And Biodiversity Lab Regents Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Relationships And Biodiversity Lab Regents Key Compatibility with Devices
  - Relationships And Biodiversity Lab Regents Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Relationships And Biodiversity Lab Regents Key
  - Highlighting and Note-Taking Relationships And Biodiversity Lab Regents Key
  - Interactive Elements Relationships And Biodiversity Lab Regents Key
8. Staying Engaged with Relationships And Biodiversity Lab Regents Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Relationships And Biodiversity Lab Regents Key
9. Balancing eBooks and Physical Books Relationships And Biodiversity Lab Regents Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Relationships And Biodiversity Lab Regents Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Relationships And Biodiversity Lab Regents Key
  - Setting Reading Goals Relationships And Biodiversity Lab Regents Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Relationships And Biodiversity Lab Regents Key
  - Fact-Checking eBook Content of Relationships And Biodiversity Lab Regents Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- 
- Interactive and Gamified eBooks

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