

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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Nys Regent Relationships And Biodiversity Lab

Illéne Pevec



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Table of Contents Nys Regent Relationships And Biodiversity Lab

1. Understanding the eBook Nys Regent Relationships And Biodiversity Lab
 - The Rise of Digital Reading Nys Regent Relationships And Biodiversity Lab
 - Advantages of eBooks Over Traditional Books
2. Identifying Nys Regent Relationships And Biodiversity Lab
 - 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 Nys Regent Relationships And Biodiversity Lab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nys Regent Relationships And Biodiversity Lab
 - Personalized Recommendations
 - Nys Regent Relationships And Biodiversity Lab User Reviews and Ratings
 - Nys Regent Relationships And Biodiversity Lab and Bestseller Lists
5. Accessing Nys Regent Relationships And Biodiversity Lab Free and Paid eBooks
 - Nys Regent Relationships And Biodiversity Lab Public Domain eBooks
 - Nys Regent Relationships And Biodiversity Lab eBook Subscription Services
 - Nys Regent Relationships And Biodiversity Lab Budget-Friendly Options

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