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.
- b. Compare the structural characteristics of the seed samples. Record your observations in Table 1.



"Relationships and Biodiversity" is a laboratory activity produced by the State Education Department for use in fulfilling part of the laboratory requirement for the Regents Examination in Living Environment. Reproducing any part of this laboratory activity by other than New York State school personnel is illegal.

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State Lab Biodiversity And Relationships Answer Key

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Table of Contents State Lab Biodiversity And Relationships Answer Key

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

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