## 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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# **Relationships And Biodiversity Lab**

**Michael Seilmaier** 

**Relationships And Biodiversity Lab:** 

#### Embracing the Tune of Appearance: An Emotional Symphony within Relationships And Biodiversity Lab

In a world taken by screens and the ceaseless chatter of immediate interaction, the melodic elegance and mental symphony produced by the prepared word frequently diminish into the back ground, eclipsed by the constant noise and distractions that permeate our lives. But, located within the pages of **Relationships And Biodiversity Lab** a stunning literary value full of natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that interesting masterpiece conducts visitors on an emotional journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of the moving examination, we will investigate the book is main harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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