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 I on page 8 of this packet. Use a hand lens or microscope as needed.

- Test 1-Structural Characteristics of Plants
 - a. Do not remove the plant samples from the plastic bags/cards.
 - b. Compare the structural characteristics of the plant samples. Record your observations in Table 1 (see page 8).
- Test 2-Structural Characteristics of Seeds
 - a. 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.



"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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Nys Lab Relationships And Biodiversity Answer Sheet

Ian Pickup

Nys Lab Relationships And Biodiversity Answer Sheet:

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Nys Lab Relationships And Biodiversity Answer Sheet**

In a global inundated with displays and the cacophony of immediate conversation, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, nestled within the lyrical pages of **Nys Lab Relationships And Biodiversity Answer Sheet**, a captivating function of fictional beauty that pulses with raw emotions, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus manuals readers on a psychological odyssey, gently exposing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse of this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their charming writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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