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 Relationships And Biodiversity Lab Answer Key

Ian Pickup

Nys Relationships And Biodiversity Lab Answer Key:

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Nys Relationships And Biodiversity Lab Answer Key**

In a global inundated with monitors and the cacophony of immediate communication, the profound energy and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, located within the lyrical pages of **Nys Relationships And Biodiversity Lab Answer Key**, a captivating function of fictional brilliance that pulses with organic emotions, lies an unique trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that exciting opus manuals viewers on a mental odyssey, softly exposing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is central themes, dissect their captivating writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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