

Laboratory Activity #1 — Student Laboratory Packet

Relationships and Biodiversity

A Laboratory Activity for the Living Environment



Introduction

Botana curas is a valuable plant because it produces Currol, a compound used for treating certain kinds of cancer. Currol cannot be produced in the laboratory. *Botana curas* grows very slowly and is on the endangered species list, so its ability to provide Currol in large quantities is limited.

Species that are more closely related to *Botana curas* are more likely to produce the important substance Currol. Three similar plant species that are plentiful (X, Y, and Z) may be related to *Botana curas*. 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 curas*
- use this evidence to decide which plant species is most likely to serve as a source of the important substance Currol

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 I (see page 8).

Test 2-Structural Characteristics of Seeds

- a. 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 I.



"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 Answers

R Bogdan

Nys Relationships And Biodiversity Lab Answers:

Reviewing the Living Environment Biology Rick Hallman,Woody,2004-04-19 This review book provides a complete review of a one year biology course that meets the NYS Living Environment Core Curriculum Includes four recent Regents exams

Let's Review Biology-The Living Environment G. Scott Hunter,2004-01-01 This high school classroom supplement to the main biology text prepares students in New York State to succeed on the Regents Exam It presents a subject review practice questions with answers and two complete Regents Biology Exam with answer keys When combined with Barron's Regents Exams and Answers Biology it provides students with the most comprehensive test preparation available anywhere Topics reviewed include ecology biological organization formation and structure of the ecosystem and the interaction between human beings and the biosphere

Let's Review Regents: Living Environment Revised Edition Barron's Educational Series, Gregory Scott Hunter,2021-01-05 Barron's Let's Review Regents Living Environment gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Biology topics prescribed by the New York State Board of Regents This edition includes One recent Regents exam and question set with explanations of answers and wrong choices Teachers guidelines for developing New York State standards based learning units Two comprehensive study units that cover the following material Unit One explains the process of scientific inquiry including the understanding of natural phenomena and laboratory testing in biology Unit Two focuses on specific biological concepts including cell function and structure the chemistry of living organisms genetic continuity the interdependence of living things the human impact on ecosystems and several other pertinent topics

Resources in Education ,2001 *Resources in Education* ,1996 *American Paleontologist* ,1994 NOFA-NY News ,1992 **ESA Newsletter** ,1993 Environment Abstracts Annual ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters

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Nys Relationships And Biodiversity Lab Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Nys Relationships And Biodiversity Lab Answers**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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