

Laboratory Activity #1 — Student Answer 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

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

# Answers To Biodiversity Lab

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## Answers To Biodiversity Lab:

**Regents Exams and Answers: Living Environment, Fourth Edition** Gregory Scott Hunter, 2024-01-02 Be prepared for exam day with Barron's Trusted content from experts Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents and includes actual exams administered for the course thorough answer explanations and overview of the exam This edition features Four actual Regents exams to help students get familiar with the test format Review questions grouped by topic to help refresh skills learned in class Thorough answer explanations for all questions Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies

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*Biology* Eric Strauss, Marilyn Lisowski, 2000 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 **Encyclopedia of Biodiversity** Simon A. Levin, 2001 Includes articles on agriculture ecology forests wetlands and environment as well as organisms **Global Biodiversity**, 1997 *Pollution: Problems & Solutions* National Wildlife Federation, 1998 Like it or not our children are inheriting a polluted world By studying the effect of toxins on wildlife understanding the societal problems posed by pollution and participating in recycling and clean up projects kids can become proactive in preserving the future of our planet

*Biology* Joseph S. Levine, Kenneth R. Miller, 1998 Living Bird, 2003 **Environmental Science** Scott Brennan, 2004-03 This comprehensive study guide features chapter outlines key terms practice exercises and answers and solutions to selected end of chapter questions from the text Additional suggestions for approaching environmental issues encourage students to think critically *Ecology: Teacher's ed*, 2005 **Whole Terrain**, 1997 **Biological Inquiry** Margaret Waterman, 2005 *Annual Report* Cornell University. Laboratory of Ornithology, 2008 Environmental Science Travis P. Wagner, Robert M. Sanford, 2009-01-27 One of the few lab books available in the field Environmental Science is designed to provide environmental scientists with active learning situations that demonstrate the impacts of interactions between humans and the environment It encourages readers to reflect on real life conditions and the connection to the environment and sustainability Emphasis is placed on writing and communication through lab reports presentations and real world scenarios Environmental scientists will be able to apply concepts in the lab and gain a stronger understanding of the field *American Birds*, 2005 *Current Index to Journals in Education*, 1999-04 **The Scientist**, 1999

## **Answers To Biodiversity Lab** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Answers To Biodiversity Lab**, a literary masterpiece that delves deep to the significance of words and their impact 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 affect readers.

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