

# 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.

# Biodiversity Lab Answers

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## **Biodiversity Lab Answers:**

**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 *Regents Exams and Answers: Living Environment Revised Edition* Gregory Scott Hunter, 2021-01-05 Always study with the most up to date prep Look for Regents Exams and Answers Living Environment Fourth Edition ISBN 9781506291338 on sale January 2 2024 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product *E-biology Ii Tm (science and Technology)' 2003 Ed. , Urbanization and Climate Co-Benefits* Christopher Doll, Jose Puppim de Oliveira, 2017-02-24 Urban areas are increasingly contributing to climate change while also suffering many of its impacts Moreover many cities particularly in developing countries continue to struggle to provide services infrastructure and socio economic opportunities How do we achieve the global goals on climate change and also make room for allowing global urban development Increasing levels of awareness and engagement on climate change at the local level coupled with recent global agreements on climate and development goals as well as the New Urban Agenda emerging from Habitat III present an unprecedented opportunity to radically rethink how we develop and manage our cities *Urbanization and Climate Co Benefits* examines the main opportunities and challenges to the implementation of a co benefits approach in urban areas Drawing on the results of empirical research carried out in Brazil China Indonesia South Africa India and Japan the book is divided into two parts The first part uses a common framework to analyse co benefits across the urban sectors The second part examines the tools and legal and governance perspectives at the local and international level that can help in planning for co benefits This book will be of great interest to students practitioners and scholars of urban studies climate development policy and environmental studies *Prentice Hall Science Explorer: Teacher's ed ,2005 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 *Biology* Eric Strauss, Marylin Lisowski, 2000 *Annual Report* Cornell University. Laboratory of Ornithology, 2008 *NACLA Report on the Americas ,2005 Winds of Change ,2001 Asiatic Herpetological Research ,2008 Experiences in Environmental Science* Barbara A. Krumhardt, Danielle M. Wirth, 1999 *Resources in Education ,1996 Parliamentary Debates (Hansard).* Great Britain. Parliament. House of Commons, 2010 **JIRCAS Working Report ,2007 Annual Report** Scottish Crop Research

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