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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<u>Living Environment Relationships Biodiversity Lab</u> <u>Answers</u>

Osamu Saito,Gordana Kranjac-Berisavljevic,Kazuhiko Takeuchi,Edwin A. Gyasi

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Nature-based learning and development: Maximizing the returns on investment, volume II Catherine Jordan, Andrea Faber Taylor, Nancy M. Wells, Ming Kuo, Ulrich Dettweiler, 2023-11-06 On-line English 5 Tm' 2005 Ed. . Resources in Education ,1998 **Laboratory Techniques in Biology - 1** Mr. Rohit Manglik, 2024-03-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Strategies for Building Resilience against Climate and Ecosystem Changes in Sub-Saharan Africa Osamu Saito, Gordana Kranjac-Berisavljevic, Kazuhiko Takeuchi, Edwin A. Gyasi, 2017-09-19 This book summarizes studies on climate and ecosystem change adaptation and resilience in Africa CECAR Africa a collaboration with the goal of creating an integrated resilience enhancement strategy as a potential model for semi arid regions across Sub Saharan Africa by combining climate change and ecosystem change research The case studies were conducted at multiple scales local national and regional and incorporate the natural sciences social sciences and engineering in a transdisciplinary manner while also integrating the needs of local communities The book chiefly addresses three thematic areas namely Forecast and assessment of climate change impacts on agro ecosystems Risk assessment of extreme weather hazards and development of adaptive resource management methods and Implementing capacity development programs for local leaders and practitioners. The collaborative nature of the project and the use of various quantitative and qualitative research technique s and methods such as field surveys questionnaires focus group discussions land use and cover change analysis and climate downscaled modeling make the book truly unique Especially at a time when both long term climate change and short term extreme weather events such as droughts and floods are worsening this book offers potential approaches to developing an integrated framework for assessing the local ability to cope with floods and droughts and for enhancing the resilience of farming communities in developing countries which are the most vulnerable to these changes and extreme weather events As such it will be of interest to a wider audience including academics professionals and government officials alike Warfare Ecology Gary E. Machlis, Thor Hanson, Zdravko Špirić, Jean E. McKendry, 2011-05-29 The purpose of this book is specific and ambitious to outline the distinctive elements scope and usefulness of a new and emerging field of applied ecology named warfare ecology Based on a NATO Advanced Research Workshop held on the island of Viegues Puerto Rico the book provides both a theoretical overview of this new field and case studies that range from mercury contamination during World War I in Slovenia to the ecosystem impacts of the

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