

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 1 on page 8 of this packet. Use a hand lens or microscope as needed.

Test 1-Structural Characteristics of Plants

- Do not remove the plant samples from the plastic bags/cards.
- Compare the structural characteristics of the plant samples. Record your observations in Table 1 (see page 8).

Test 2-Structural Characteristics of Seeds

- 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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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 Let's Review Regents: Living Environment 2020 Gregory Scott Hunter, 2020-06-19 Always study with the most up to date prep Look for Let's Review Regents Living Environment ISBN 9781506264783 on sale January 05 2021 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitles included with the product 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 **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 **The Living Environment** Rick Hallman, 2001 **Nuclear Science Abstracts**, 1974 *Coastal Hazards Related to Storm Surge* Rick Luettich, 2018-03-13 This book is a printed edition of the Special Issue Coastal Hazards Related to Storm Surge that was published in JMSE *Report summaries* United States. Environmental Protection Agency, 1983 **Current Catalog** National Library of Medicine (U.S.), 1968 Includes subject section name section and 1968 1970 technical reports **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1972 First multi year cumulation covers six years 1965 70 Advances in Computer, Information, and Systems Sciences, and Engineering Khaled Elleithy, Tarek Sobh, Ausif Mahmood, Magued Iskander, Mohammad A. Karim, 2007-06-06 The conference proceedings of International Conference on Industrial Electronics Technology not only the reviewing submissions and registration processes but also the actual conference Conference participants authors presenters and attendees only needed an internet connection and sound

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