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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Relationships Biodiversity Lab Answers

David A. Perry, Ram Oren, Stephen C. Hart

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biologists geographers and environmentalists The Routledge Handbook of Philosophy of Biodiversity is an outstanding reference source to the key topics and debates in this exciting subject Comprising twenty three chapters by a team of international contributors the Handbook is divided into six parts Historical and sociological contexts focusing on the emergence of the term and early attempts to measure biodiversity What is biodiversity How should biodiversity be defined How can biodiversity include entities at the edge of its boundaries including microbial diversity and genetically engineered organisms Why protect biodiversity What can traditional environmental ethics contribute to biodiversity Topics covered include anthropocentrism intrinsic value and ethical controversies surrounding the economics of biodiversity Measurement and methodology including decision theory and conservation the use of indicators for biodiversity and the changing use of genetics in biodiversity conservation Social contexts and global justice including conservation and community conflicts and biodiversity and cultural values Biodiversity and other environmental values How does biodiversity relate to other values like ecological restoration or ecological sustainability Essential reading for students and researchers in philosophy environmental science and environmental studies and conservation management it will also be extremely useful to those studying biodiversity in subjects such as biology and geography **Forest Ecosystems** David A. Perry, Ram Oren, Stephen C. Hart, 2008-07-24 Situating forests in the context of larger landscapes they reveal the complex patterns and processes observed in tree dominated habitats The updated and expanded second edition covers Conservation Ecosystem services Climate change Vegetation classification Disturbance Species interactions Self thinning Genetics Soil influences Productivity Biogeochemical cycling Mineralization Effects of herbivory Ecosystem stability **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 Report of a Workshop on Wheat Genetic Resources, 21-23 March 1996, Paris, France Thomas Gass, 1997 CliffsTestPrep Regents Living **Environment Workbook** American BookWorks Corporation, 2008-06-02 Designed with New York State high school students in mind CliffsTestPrep is the only hands on workbook that lets you study review and answer practice Regents exam questions on the topics you re learning as you go Then you can use it again as a refresher to prepare for the Regents exam by taking a full length practicetest Concise answer explanations immediately follow each question so everything you need is right there at your fingertips You ll get comfortable with the structure of the actual exam while also pinpointing areas where you need further review About the contents Inside this workbook you ll find sequential topic specific test questions with fully explained answers for each of the following sections Organization of Life Homeostasis Genetics Ecology Evolution Change over Time Human Impact on the Environment Reproduction and Development Laboratory Skills Scientific Inquiry and Technique A full length practice test at the end of the book is made up of questions culled from multiple past Regents exams Use it to identify your weaknesses and then go back to those sections for more study It's that easy The only review as you go workbook for the

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Encyclopedia of Biodiversity, 2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries Regents Living Environment Power Pack Revised Edition Barron's Educational Series, Gregory Scott explain key terms Hunter, 2021-01-05 Barron s two book Regents Living Environment Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Biology Regents exam This edition includes Four actual Regents exams Regents Exams and Answers Living Environment Four actual administered Regents exams so students can get familiar with the test Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Let's Review Regents Living Environment Extensive review of all topics on the test Extra practice questions

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The Ecological and Societal Consequences of Biodiversity Loss Michel Loreau, Andy Hector, Forest Isbell, 2022-02-11 The idea that changes in biodiversity can impact how ecosystems function has over the last quarter century gone from being a controversial notion to an accepted part of science and policy As the field matures it is high time to review progress explore the links between this new research area and fundamental ecological concepts and look ahead to the implementation of this knowledge This book is designed to both provide an up to date overview of research in the area and to serve as a useful textbook for those studying the relationship between biodiversity and the functioning stability and services of ecosystems The Ecological and Societal Consequences of Biodiversity Loss is aimed at a wide audience of upper undergraduate students postgraduate students and academic and research staff

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