

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.

Biodiversity Lab Answers

**Food and Agriculture Organization of
the United
Nations, Intergovernmental
Technical Panel on Soils**

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 **Lactic Acid Bacteria** Heping Zhang, Yimin Cai, 2014-04-29 The book summarizes the latest research and developments in dairy biotechnology and engineering It provides a strategic approach for readers relating to fundamental research and practical work with lactic acid bacteria The book covers every aspect from identification ecology taxonomy and industrial use All contributors are experts who have substantial experience in the corresponding research field The book is intended for researchers in the human animal and food sciences related to lactic acid bacteria Dr Heping Zhang is a Professor at the Key Laboratory of Dairy Biotechnology and Engineering Ministry of Education Inner Mongolia Agricultural University China Dr Yimin Cai works in Livestock and Environment Division Japan International Research Center for Agricultural Sciences JIRCAS Japan [AP Biology Premium, 2025: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice](#) Barron's Educational Series, Mary Wuerth, 2024-07-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Biology Premium 2025 includes in depth content review and practice It's the only book you'll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 6 full length practice tests 2 in the book and 4 more online plus detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Biology exam Reinforce your learning with multiple choice and short and long free response practice questions in each chapter that reflect actual exam questions in content and format Expand your understanding with a review of the major statistical tests and lab experiments that will help enhance your scientific thinking skills Robust Online Practice Continue your practice with 4 full length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer

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AP Biology Premium, 2024: Comprehensive Review With 5 Practice Tests + an Online Timed Test Option Mary Wuerth, 2023-07-04 Always study with the most up to date prep Look for AP Biology Premium 2025 Prep Book with 6 Practice Tests Comprehensive Review Online Practice ISBN 9781506291673 on sale July 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 Prentice Hall Science Explorer: Teacher's ed, 2005 **Teaching about Scientific Origins** Leslie Sandra Jones, Michael Jonathan Reiss, 2007 Persistent resistance to the teaching of evolution has so drastically impacted science curricula that many students finish school without a basic understanding of a theory that is a fundamental component of scientific literacy This evolution creationism controversy has crippled biological education in the United States and has begun to spread to other parts of the world This book takes an educational point of view that respects both the teaching of evolution and religious beliefs Authors from different academic traditions contribute to a collection of perspectives that begin to dismantle the notion that religion and science are necessarily incompatible *Recarbonizing global soils - A technical manual of recommended management practices* Food and Agriculture Organization of the United Nations, Intergovernmental Technical Panel on Soils, 2021-09-08 During the last decades soil organic carbon SOC attracted the attention of a much wider array of specialists beyond agriculture and soil science as it was proven to be one of the most crucial components of the earth's climate system which has a great potential to be managed by humans Soils as a carbon pool are one of the key factors in several Sustainable Development Goals in particular Goal 15 Protect restore and promote sustainable use of terrestrial ecosystems sustainably manage forests combat desertification and halt and reverse land degradation and halt biodiversity loss with the SOC stock being explicitly cited in Indicator 15.3.1 This technical manual is the first attempt to gather in a standardized format the existing data on the impacts of the main soil management practices on SOC content in a wide array of environments including the advantages drawbacks and constraints This manual presents different sustainable soil management SSM practices at different scales and in different contexts supported by case studies that have been shown with quantitative data to have a positive effect on SOC stocks and successful experiences of SOC sequestration in practical field applications Volume 4 includes 51 case studies dealing with cropland grassland integrated

systems and farming approaches Sink or Swim Susannah Fisher, 2025-08-14 The world needs to adapt to climate change but how What are the key problems and hard choices that lie ahead for the global community This book reveals all Heatwaves wildfires hurricanes and flooding caused by climate change are already impacting people and nature Adaptation until now has been incremental with governments and institutions tinkering around the edges of current systems This will not be enough Sink or Swim explores the hard choices that lie ahead concerning how people earn a living the way governments manage relationships between countries and how communities accommodate the movement of people Should people be encouraged to move away from the coast How can global food supplies be managed when parts of the world are hit by simultaneous droughts How can conflict be handled when there isn't enough water Drawing on cutting edge research interviews with experts and practical examples from across the world Susannah Fisher tells the story of the tough choices on adaptation that lie ahead and looks at ways we can still have a liveable planet later in this century and beyond Will we choose to sink or swim

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