

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.

# Relationship And Diveristy Lab Answer Key

**Michael Brown**



## **Relationship And Diversity Lab Answer Key:**

*Nature's Tapestry: Uncovering the Beauty and Importance of Biodiversity* Juan Armando Sánchez, 2023-10-09 We cannot separate human beings from biodiversity Our vital functions and our health are synergistic with other species The number of microorganisms we live with is greater than the total number of cells in our bodies So separation from biodiversity and its loss are the greatest threats to human survival and the current model for human development affects our very lives We must integrate marine and terrestrial life to understand our interdependence with biodiversity Colombia a megadiverse country with access to two oceans is the perfect canvas on which to illustrate this message nature has sustainable and straightforward solutions to society's emerging problems The new challenges of a changing environment raise increasingly relevant questions that we must address to prosper as individuals and as a society Can we prevent a new pandemic of viral origin How will we feed a constantly growing population How will the extinction of biological species affect us Do we function the same as all other living beings Are our bodies entire ecosystems for other species Is there a better model for economic development This book presents an approach to these discussions based on Colombia's biodiversity to uncover biodiversity's beauty and importance our nature's tapestry What we have here is an opportunity that we cannot miss **Laboratory**

**Manual for Introductory Biology** Carl S. Lieb, Jerry D. Johnson, Lillian F. Mayberry, Reuven Lazarowitz, 2002-06 *Field and Laboratory Investigations in Agroecology* Stephen R. Gliessman, 2007 Agroecology is defined as the application of ecological concepts and principles to the design and management of sustainable food systems Offering step by step guidance for structured investigation *Field and Laboratory Investigations in Agroecology* Second Edition reviews ecological concepts and principles in an agricultural setting and provides in depth practical experience From background information to procedures and suggestions for writing up the results the book covers 24 different agroecological investigations each designed to provide all the information needed to plan and execute experimental or comparative studies It deals with how an individual plant responds to the environment how environmental factors are measured and characterized and how environmental factors affect individual plants The manual investigates how populations of organisms act in agroecosystems focuses on the level of the community and explores the between species interactions of the organisms that make up crop communities Examining whole farms or systems within farm boundaries investigations touch on the complexity with which farmers manage agroecosystems In the last section the book addresses components of the food system at a local level Comprising both basic and complex topics *Field and Laboratory Investigations in Agroecology* Second Edition presents a broad scope of issues relevant to agroecology today This edition facilitates hands on experiential learning that involves close observation creative interpretation and constant questioning of findings Greening Aid? Robert L. Hicks, Bradley C. Parks, J. Timmons Roberts, Michael J. Tierney, 2010-02-04 For more than three decades the impact of aid on the global environment has been the subject of vigorous protest and debate With billions spent on environmental aid each year this

groundbreaking text seeks to understand why aid is given how effective it is and whether aid is actually going to the places with the greatest environmental need

**The Law of the Seabed** Catherine Banet, 2020-01-29 The Law of the Seabed reviews the most pressing legal questions raised by the use and protection of natural resources on and underneath the world's seabeds While barely accessible the seabed plays a major role in the Earth's ecological balance It is both a medium and a resource and is central to the blue economy New uses and new knowledge about seabed ecosystems and the risks of disputes due to competing interests urge reflection on which regulatory approaches to pursue The regulation of ocean activities is essentially sector based and the book puts in parallel the international and national regimes for seabed mining oil and gas energy generation bottom fisheries marine genetic resources carbon sequestration and maritime security operations both within and beyond the national jurisdiction The book contains seven parts respectively addressing the definition of the seabed from a multidisciplinary perspective the principles of jurisdiction delimitation under the United Nations Convention on the Law of the Sea UNCLOS the regimes for use of non living living and marine biodiversity resources the role of state and non state actors the laying and removal of installations the principles for sustainable and equitable use common heritage of mankind precaution benefit sharing and management tools to ensure coexistence between activities as well as the protection of the marine environment

*Encyclopedia of Ecology* Brian D. Fath, 2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e.g. climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes

*Backpacker*, 2007-09 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

*The Scientist*, 1999-07 **Nature** Sir Norman Lockyer, 2007 **Journal of Geoscience Education**, 1996 **Cincinnati Magazine**, 2001-08 Cincinnati Magazine taps

into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region      Current Index to Journals in Education ,2002      **Environment Abstracts Annual** ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters

## **Relationship And Diveristy Lab Answer Key** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Relationship And Diveristy Lab Answer Key**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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