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.
- b. 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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State Lab Biodiversity And Relationships Answer Key

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Marine Biodiversity and Ecosystem Functioning Martin Solan, Rebecca J. Aspden, David M. Paterson, 2012-07-19 This edited volume is the first to address the latest advances in biodiversity function science using marine examples It provides an in depth evaluation of the science before offering a perspective on future research directions for some of the most pressing environmental issues facing society today and in the future The Carbon Fix Stephanie Paladino, Shirley J Fiske, 2016-11-18 Given the growing urgency to develop global responses to a changing climate The Carbon Fix examines the social and equity dimensions of putting the world's forests and necessarily the rural people who manage and depend on them at the center of climate policy efforts such as REDD intended to slow global warming The book assesses the implications of international policy approaches that focus on forests as carbon and especially forest carbon offsets for rights justice and climate governance Contributions from leading anthropologists and geographers analyze a growing trend towards market principles and financialization of nature in environmental governance placing it into conceptual critical and historical context The book then challenges perceptions of forest carbon initiatives through in depth field based case studies assessing projects policies and procedures at various scales from informed consent to international carbon auditing While providing a mixed assessment of the potential for forest carbon initiatives to balance carbon with social goals the authors present compelling evidence for the complexities of the carbon offset enterprise fraught with competing interests and interpretations at multiple scales and having unanticipated and often deleterious effects on the resources and rights of the world's poorest peoples especially indigenous and rural peoples The Carbon Fix provides nuanced insights into political economic and ethical issues associated with climate change policy Its case approach and fresh perspective are critical to environmental professionals development planners and project managers and to students in upper level undergraduate and graduate courses in environmental anthropology and geography environmental and policy studies international development and indigenous studies The Routledge Handbook of Urbanization and Global Environmental Change Karen Seto, William Solecki, Corrie Griffith,2015-12-22 This volume provides a comprehensive overview of the interactions and feedbacks between urbanization and global environmental change A key focus is the examination of how urbanization influences global environmental change and how global environmental change in turn influences urbanization processes It has four thematic foci Theme 1 addresses the pathways through which urbanization drives global environmental change Theme 2 addresses the pathways through which global environmental change affects the urban system Theme 3 addresses the interactions and responses within the urban system in response to global environmental change Theme 4 centers on critical emerging research **Nature-Based** Solutions and Water Security Jan Cassin, John H. Matthews, Elena Lopez Gunn, 2021-07-22 Nature Based Solutions and Water Security An Action Agenda for the 21st Century presents an action agenda for natural infrastructure on topics of standards and principles technical evaluation and design tools capacity building and innovative finance Chapters introduce

the topic and concepts of natural infrastructure or nature based solutions NBS and water security with important background on the urgency of the global water crisis and the role that NBS can and should play in addressing this crisis Sections also present the community of practice s collective thinking on a prioritized action agenda to guide more rapid progress in mainstreaming NBS With contributions from global authors including key individuals and organizations active in developing NBS solutions users will also find important conclusions and recommendations thus presenting a collaboratively developed consensus roadmap to scaling NBS Covers all issues of water security and natural infrastructures Presents a comprehensive state of synthesis providing readers with a solid grounding in the field of natural infrastructures and water security Includes a fully workable and intuitive roadmap for action that is presented as a guide to the most important actions for practitioners research questions for academics and information on promising careers for students entering the field

Lactic Acid Bacteria Wilhelm H. Holzapfel, Brian J.B. Wood, 2014-04-29 Lactic Acid Bacteria Biodiversity and Taxonomy Lactic Acid Bacteria Biodiversity and Taxonomy Edited by Wilhelm H Holzapfel and Brian J B Wood The lactic acid bacteria LAB are a group of related microorganisms that are enormously important in the food and beverage industries Generally regarded as safe for human consumption and in the case of probiotics positively beneficial to human health the LAB have been used for centuries and continue to be used worldwide on an industrial scale in food fermentation processes including yoghurt cheeses fermented meats and vegetables where they ferment carbohydrates in the foods producing lactic acid and creating an environment unsuitable for the survival of food spoilage organisms and pathogens. The shelf life of the product is thereby extended but of course these foods are also enjoyed around the world for their organoleptic qualities. They are also important to the brewing and winemaking industries where they are often undesirable intruders but can in specific cases have desirable benefits The LAB are also used in producing silage and other agricultural animal feeds Clinically they can improve the digestive health of young animals and also have human medical applications This book provides a much needed and comprehensive account of the current knowledge of the LAB covering the taxonomy and relevant biochemistry physiology and molecular biology of these scientifically and commercially important microorganisms It is directed to bringing together the current understanding concerning the organisms remarkable diversity within a seemingly rather constrained compass The genera now identified as proper members of the LAB are treated in dedicated chapters and the species properly recognized as members of each genus are listed with detailed descriptions of their principal characteristics Each genus and species is described using a standardized format and the relative importance of each species in food agricultural and medical applications is assessed In addition certain other bacterial groups such as Bifidobacterium often associated with the LAB are given in depth coverage The book will also contribute to a better understanding and appreciation of the role of LA B in the various ecosystems and ecological niches that they occupy In summary this volume gathers together information designed to enable the organisms fullest industrial nutritional and medical applications Lactic Acid Bacteria Biodiversity and Taxonomy is

an essential reference for research scientists biochemists and microbiologists working in the food and fermentation industries and in research institutions Advanced students of food science and technology will also find it an indispensable quide to the subject Also available from Wiley Blackwell The Chemistry of Food Jan Velisek ISBN 978 1 118 38384 1 Progress in Food Preservation Edited by Rajeev Bhat Abd Karim Alias and Gopinadham Paliyath ISBN 978 0 470 65585 6 Aid? Robert L. Hicks, Bradley C. Parks, J. Timmons Roberts, Michael J. Tierney, 2008-03-13 Every year billions of dollars of environmental aid flow from the rich governments of the North to the poor governments of the South Why do donors provide this aid What do they seek to achieve How effective is the aid given And does it always go to the places of greatest environmental need From the first Earth Summit in Stockholm in 1972 to the G8 Gleneagles meeting in 2005 the issue of the impact of aid on the global environment has been the subject of vigorous protest and debate How much progress has there been in improving environmental protection and clean up in the developing world What explains the patterns of environmental aid spending and distribution is it designed to address real problems achieve geopolitical or commercial gains abroad or buy political mileage at home And what are the consequences for the estimated 4 million people that die each year from air pollution unsafe drinking water and lack of sanitation All of these questions and many more are addressed in this groundbreaking text which is based on the authors work compiling the most comprehensive dataset of foreign aid ever assembled By evaluating the likely environment impact of over 400 000 development projects by more than 50 donors to over 170 recipient nations between 1970 and 2001 Greening Aid represents a unique state of the art picture of what is happening in foreign assistance and its impact on the environment Greening Aid explains major trends and shifts over the last three decades ranks donors according to their performance and offers case studies which compare and contrast donors and types of environmental aid **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 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 EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency, 1993-04 **Information Management and Decision Support for Marine** Biodiversity Protection and Human Welfare Australian Institute of Marine Science, United Nations Environment Programme, 2000 Consists mainly of papers presented at the workshop **Evaluation of Urban Ecological Security and** Measurement of Urban Ecological Resilience Xueru Zhang, Wei Song, Hualin Xie, Jinmei Lu, 2024-05-29 Since the middle of the last century rapid population growth and urbanization have led to the encroachment of a large number of natural spaces resulting in a series of ecological security issues such as environmental pollution resource depletion and habitat destruction which have severely challenged global sustainable development Urban ecological security is an important barrier to urban residents production and life the foundation and core of national or regional ecological security and it is of great significance to promote green development and harmonious coexistence between humans and nature With global warming frequent natural disasters and other multifactorial threats the issue of ecological security in cities as centers of the settlement have become a focus of international attention However cities are complex systems with social economic and natural conditions coupled with each other Under the overlapping of many factors the basic problems such as the mechanism of urban development on ecological security have not been fully explained and there is also a lack of quantitative assessment methods corresponding to urban ecological conditions let alone simulation and prediction **Government Reports** Announcements & Index ,1993-12 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 Park Science ,1990 Index Veterinarius ,2006 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 Abstracts, 1998 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major ares of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosyst em studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management

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