

## 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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# Relationship And Biodiversity Lab Answer Guide

**Emily Wanderer**



## **Relationship And Biodiversity Lab Answer Guide:**

*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** Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features Four actual Regents exams to help students get familiar with the test format 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

Regents Living Environment Power Pack Revised Edition Barron's Educational Series, Gregory Scott 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 with answers One actual Regents exam

**Key Determinants of Biodiversity, Ecosystem Functioning and Restoration in Climate Change Sensitive Ecosystems** Hui Zhang, Xiang Liu, Robert John, 2023-11-27 Human activities such as agriculture and mining have led to serious negative effects on biodiversity and important ecosystem services including biodiversity loss and climate change Thus it is important to quantify the key determinants of biodiversity ecosystem functioning and ecological restoration of degraded plant communities in climate change sensitive ecosystems i.e. subalpine and alpine meadow communities in Qinghai tropical rainforests and tropical mountains In this way effective management policy and methods can be developed to reduce the influence of climate change on these climate change sensitive ecosystems The aforementioned human activities continue to destroy and degrade plant communities and ecosystem functioning Climatic changes further exacerbate negative impacts and may trigger rapid loss of species precipitate decline and changes in the flows of ecosystem goods and services As the collective anthropogenic influence intensifies some ecosystems may be more sensitive than others to these changes

Ecosystems that contribute greatly to human well being through the delivery of biodiversity and ecosystem benefits should be the focus of particular concern There are key knowledge gaps on the specific nature of anthropogenic impacts species and ecosystem responses and possible management and mitigation measures Comprehensive documentation of these aspects from highly sensitive regions and ecosystems is urgently needed particularly at fine scales which is relevant for developing management and mitigation measures Pathways such as ecological restoration can offset some of the impacts but even quantifying the impacts of observed and anticipated changes is far from adequate and other mitigation measures must be considered

**Biology** Eric Strauss,Marylin Lisowski,2000 Effects of Non-Random Sources of Alteration on Biodiversity and Ecosystem Functioning Tian Zhao,Chuanbo Guo,Chao Wang,Chunsheng Liu,Paraskevi Manolaki,2023-11-15

Understanding how biological diversity affects ecosystem functioning is a key question in modern ecology This is of particular importance in the general context of recent global changes caused by human activities such as water abstraction flow regulation shifts in agricultural practices contamination climate changes and biological invasions These changes are affecting biodiversity ecosystem functioning and their complex interactions simultaneously However our ability to understand how genes individuals populations communities and ecosystems may respond to such changes is limited despite ecologists frequently being requested to provide policymakers and managers with predictions Indeed the species that composed biodiversity can establish complex trophic links between them in the ecosystems This structure of food webs is under the permanent constraint of community dynamics which connects species populations communities and ecosystems Therefore the response of food webs to perturbations can help ecologists to better understand the relationship between biological diversity and ecosystem functioning

40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson,2009 Drawing from the author s own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

**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 , **Key Topics in Conservation Biology 2** David W. Macdonald,Katherine J. Willis,2013-02-06 Following the much acclaimed success of the first volume of Key Topics in Conservation Biology this entirely new second volume addresses an innovative array of key topics in contemporary conservation biology Written by an internationally renowned team of authors Key Topics in Conservation Biology 2 adds to the still topical foundations laid in the first volume published in 2007 by exploring a further 25 cutting edge issues in modern biodiversity conservation including controversial subjects such as setting conservation priorities balancing the focus on

species and ecosystems and financial mechanisms to value biodiversity and pay for its conservation Other chapters setting the framework for conservation address the sociology and philosophy of peoples relation with Nature and its impact on health and such challenging practical issues as wildlife trade and conflict between people and carnivores As a new development this second volume of Key Topics includes chapters on major ecosystems such as forests islands and both fresh and marine waters along with case studies of the conservation of major taxa plants butterflies birds and mammals A further selection of topics consider how to safeguard the future through monitoring reserve planning corridors and connectivity together with approaches to reintroduction and re wilding along with managing wildlife disease A final chapter by the editors synthesises thinking on the relationship between biodiversity conservation and human development Each topic is explored by a team of top international experts assembled to bring their own cross cutting knowledge to a penetrating synthesis of the issues from both theoretical and practical perspectives The interdisciplinary nature of biodiversity conservation is reflected throughout the book Each essay examines the fundamental principles of the topic the methodologies involved and crucially the human dimension In this way Key Topics in Conservation Biology 2 like its sister volume Key Topics in Conservation Biology embraces issues from cutting edge ecological science to policy environmental economics governance ethics and the practical issues of implementation Key Topics in Conservation Biology 2 will like its sister volume be a valuable resource in universities and colleges government departments and conservation agencies It is aimed particularly at senior undergraduate and graduate students in conservation biology and wildlife management and wider ecological and environmental subjects and those taking Masters degrees in any field relevant to conservation and the environment Conservation practitioners policy makers and the wider general public eager to understand more about important environmental issues will also find this book invaluable

*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

**Eco-evolutionary**

**Processes Within Microbial Communities** Maria Elena Martino,Alejandro Couce,Andrea Quagliariello,Ricardo S. Ramiro,2022-11-16      **Coastal ecotones under anthropogenic influences: Conservation, restoration and realignment** Xuechu Chen,Guanqiong Ye,Li Zhang,Yanpeng Cai,Serena Moseman-Valtierra,Xiuzhen Li,Qiang He,2023-10-27

**Advances in Cyanobacteria Research and Application: 2012 Edition** ,2012-12-26 Advances in Cyanobacteria Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Cyanobacteria The editors have built Advances in Cyanobacteria Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Cyanobacteria in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Cyanobacteria Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

**The Routledge Handbook of Urban Ecology** Ian Douglas,P M L Anderson,David Goode,Michael C. Houck,David Maddox,Harini Nagendra,Puay Yok Tan,2020-12-15 This second edition covers recent developments around the world with contributors from 33 different countries It widens the handbook s scope by including ecological design consideration of cultural dimensions of the use and conservation of urban nature the roles of government and civil society and the continuing issues of equity and fairness in access to urban greenspaces New features include an emphasis on the biophilic design of homes and workplaces demonstrating the value of nature in order to counter the still prevalent attitude among many developers that nature is a constraint rather than a value The volume explores great practical achievements that have occurred since the first edition with many governments increasingly recognizing and legislating on urban nature and green infrastructure matters since cities play a major role in adapting to change particularly to climate crisis New topics such as the ecological role of light at night and human microbiota in the urban ecosystem are introduced Additional attention is given to food production in cities particularly the multiple roles of urban agriculture and household gardens in different contexts from wealthy communities to the poorest informal settlements in deprived communities The emphasis is on demonstrating what can be achieved and what is already being done The book aims to help scholars and graduate students by providing an invaluable and up to date guide to current urban ecological thinking across the range of disciplines such as geography ecology environmental science studies planning and urban studies that converge in the study of towns and cities and urban design and living It will also assist practitioners and civil society members in discovering the ways different specialists and thinkers approach urban nature      **The Danube River and The Western Black Sea Coast** Jürg Bloesch,Bernd Cyffka,Thomas Hein,Cristina Sandu,Nike Sommerwerk,2025-06-27 The Danube River and The Western Black Sea Coast

Complex Transboundary Management is a brand new volume in the Elsevier Ecohydrology from Catchment to Coast series. The book focuses on the second largest river in Europe and the most transboundary river basin that encompasses 19 countries. Chapters focus on changes to the area in the past decade and a way forward. Made up of three parts, the book starts with an overview, covers the Danube River and its recipient the Black Sea, including sediment balance, water quality, hydromorphology, and aquatic biodiversity. Section two covers the key pressures and implementation of transboundary water management, such as aquatic resources, invasive species, climate change, and stakeholder participation. Section three assesses visions for a sustainable future in the Danube River Basin with a look to applicable sustainability, ecosystems, human interaction, and improving biodiversity through floodplains. The book concludes with a summary and outlook. Presents spatial maps, tables, and easy-to-follow figures in each chapter, aiding in a foundational understanding of the topic. Provides a fully comprehensive overview, including biogeochemistry, ecology, productivity, livelihood, socio-economic aspects, and governance of the river and seacoast. Includes specific cases of ecohydrology in the river basin and seacoast.

Current Trends in Landscape Research Lothar Mueller, Frank Eulenstein, 2019-11-13. This book presents definitions, key concepts, and projects in landscape research and related areas such as landscape science and landscape ecology, addressing and characterising the international role, status, challenges, future, and tools of landscape research in the globalised world of the 21st century. The book brings together views on landscapes from leading international teams and emerging authors from different scientific disciplines and regions of the globe. It describes approaches for achieving sustainability and for handling the multifunctionality of landscapes and includes international case studies demonstrating the great potential of landscape research to provide partial sustainable solutions while developing cultural landscapes and protecting semi-natural landscapes. It is intended for scientists from various disciplines as well as informed readers dealing with landscape policies, planning, evolution, management, stewardship, and conservation.

Crop Pest Control and Pollination, volume II, 2nd edition Fang Ouyang, Xingyuan Men, Wen Xie, Wei Li, 2023-12-01. The production of food crops helps us meet the basic need of human nutrition. The world's population now exceeds 7 billion people and continues to grow. Alongside this growth, the human demand for food also increases rapidly. Crop production is becoming increasingly intensive and large-scale, and as a result, simplified landscape systems form. Crop production in simplified agricultural landscapes often faces or suffers from various threats, such as pest damage caused by diseases, insect pests, weeds, and rodents, or a shortage of pollinators. These pests can cause serious damage to seeds, germination, growth, breeding, and maturity during crop production and food storage; however, effective pest management can help to reduce crop loss. Most crops, in particular fruit trees and vegetables, require insect pollination to ensure high yields and high quality. Research into ecosystem services and their potential impact on pest control and pollination in agricultural landscapes is of great significance to sustainable crop production. Simplified and intensive agricultural landscapes can support crop production but often have reduced biodiversity as monoculture cropping systems.

have limited surrounding natural habitat This lack of natural surrounding habitat leads to the loss of ecosystem service benefits such as natural pest control and pollination Over the past few decades pest control has largely relied on chemical pesticides which can control pests and reduce crop losses in the short term However chemical pesticides cause a number of problems in the long run for example pest resistance to pesticides and residues of pesticides in soil water and agricultural products Excessive improper and long term use of pesticides during crop production ultimately harms human health and biodiversity especially beneficial microbes natural enemies and pollinators To achieve and ensure food security food safety and ecological security new theories methods practice and application patterns need to be developed for environmentally friendly pest control and maintenance of pollination in agricultural landscapes for sustainable food production The aim of this Research Topic is to promote the sustainable management of crop production and ecological environment protection through the discussion of crop pest control and pollination and the publication of original research articles and reviews of research and theory We welcome high quality and original contributions that present original papers on basic and applied research covering aspects of natural pest control and pollination Coverage for this Research Topic includes the biology and ecology of pollinators including wild and managed organisms including parasitoids invertebrate and vertebrate predators of insect pest and plants mites plant and insect pathogens nematodes and weeds used for biological control and aspects of use including biological control agents for integrated pest management on food crops fruits and vegetables in agricultural landscapes Natural pest control is an environmentally beneficial and effective means of reducing or mitigating pests and pest damage through the use of natural enemies Ecological ethological molecular and biotechnological approaches to the understanding of natural pest control and pollination in agricultural landscapes are welcome Such as by maintaining and increasing crop genetic diversity not including genetically engineered crops crop diversity species diversity not including genetically altered insects and landscape diversity in cropping systems

**The Sustainability and Climate Change Curriculum Outdoors:**  
**Key Stage 2** Deborah Lambert,Sue Waite,Michelle Roberts,Alun Morgan,2024-03-14 Provide quality curriculum linked outdoor education in sustainability and climate change for pupils aged 7 11 with the authors of the bestselling National Curriculum Outdoors series Designed to bring contemporary issues to life this book contains everything you need to embed sustainability and climate change into your science curriculum including key subject knowledge case studies and a complete set of progressions for Key Stage 2 The detailed lesson plans are based around outdoor activities and are all in line with the Science National Curriculum The book covers the following essential curriculum concepts how to teach species identification how to encourage pupils to care for the natural world full curriculum aligned lesson plans of outdoor activities crafted to engage children in their local and global environments ways to progress pupil s learning through leadership both in a model science curriculum and through the reformation of their own school grounds Situating this teaching outside the classroom ensures that the developing concepts and knowledge are grounded in the real world and outdoor learning also has proven

benefits for children's mental health and wellbeing. The guidance and templates for development planning are underpinned by current research while vivid case studies bring these ideas to life.

**The Life of a Pest** Emily Wanderer, 2020-05-12

The Life of a Pest tracks the work practices of scientists in Mexico as they study flora and fauna at scales ranging from microscopic to ecosystemic. Amid concerns about climate change, infectious disease outbreaks, and biotechnology, scientists in Mexico have expanded the focus of biopolitics and biosecurity, looking beyond threats to human life to include threats to the animal, plant, and microbial worlds. Emily Wanderer outlines how concerns about biosecurity are leading scientists to identify populations and life forms either as worthy of saving or as pests in need of elimination. Moving from high security labs where scientists study infectious diseases to offices where ecologists regulate the use of genetically modified organisms to remote islands where conservationists eradicate invasive species, Wanderer explores how scientific research informs and is informed by concepts of nation.

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