

## 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

- 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.



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# Biodiversity And Relationships Lab

**Stephan Barthel, Marketta Kyttä**

## **Biodiversity And Relationships Lab:**

Urbanization and Affordances that Promote Well-Being for (Urban) People and for a Healthy Biosphere Stephan Barthel,Marketta Kyttä,2020-01-30 The world is urbanizing at an unprecedented rate It is estimated that in the near future urban landscapes for another ca 2 7 billion people will be built on planet Earth approximately converting land equivalent to the size of South Africa Such land conversion coupled with citizen densification increasing in equalities shifting diets and emerging technologies challenge human well being and pose ever increasing demand for resources generated by the Biosphere This Research Topic concentrates on the various ways urbanization can promote individual well being mental physical and social health as well as ecological health a healthy Biosphere What kind of affordances for human health promotion can urbanization include What kinds of affordances for a psychological connection with nature can urbanization include What kinds of nudges for pro environmental behavior and consumption decreasing detrimental consumption behaviors can be actively designed in urban settings The Research Topic at hand uses a transactional approach where an affordance can be understood as a non deterministic in situ precondition for a human activity enabled by relations between abilities of an individual with features of an environment We encourage a broad definition of the concept of affordances where the environment must not be restricted to the material biophysical environment alone but also could be combined with social immaterial features We see that the transactional approach of this Research Topic posits that meaning arises in relations between humans and their environment that it will be equally applicable to natural and designed environments and that it doesn t regard dichotomies like city contra nature or social contra ecological Hence this Research Topic is interested in if the transactional approach can be used as a conceptual tool not only for promotion of mental physical and social health in cities but simultaneously for unraveling relations at the micro scale in cities which can be used for solutions that also promote a healthy Biosphere

The American Biology Teacher ,2006 *Carrión Ecology, Evolution, and Their Applications* M. Eric Benbow,Jeffery K. Tomberlin,Aaron M. Tarone,2025-07-17 The first edition of Carrion Ecology Evolution and Their Applications brought together multiple scientific disciplines to shed light on the importance of carrion within the context of ecology and evolutionary biology and through applications ranging from human mass disasters to habitat ecosystem conservation This second edition builds upon this foundation to include a huge amount of new research consisting of 33 chapters 9 brand new and the remaining 24 substantially updated and expanded One of the most significant changes for this edition is the coverage of aquatic ecosystems both freshwater and marine The book is now represented by 73 authors from eight countries incorporating more diverse perspectives and engagement into this multidisciplinary and expanding science The resulting new edition showcases a broader scope of topics geographic areas ecosystems and history of carrion ecology evolution and their applications for humanity It provides the most comprehensive resource on carrion from all ecosystems of the world The student academic and professional will find this book insightful providing new insights for the fields of

molecular ecology microbiology entomology population biology community and ecosystem ecology as well as applications in forensics and human and environmental health     **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 evolvement management stewardship and conservation

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

*Encyclopedia of Natural Resources - Two-Volume Set* Yeqiao Wang, 2014-06-01 With unprecedented attention on global change the current debate revolves around the availability and sustainability of natural resources and how to achieve equilibrium between what society demands from natural environments and what the natural resource base can provide A full understanding of the range of issues from the consequences of the changing resource bases to the degradation of ecological integrity and the sustainability of life is crucial to the process of developing solutions to this complex challenge Authored by world class scientists and scholars The Encyclopedia of Natural Resources provides an authoritative reference on a broad spectrum of topics such as the forcing factors and habitats of life their histories current status and future trends and their societal connections economic values and management The content presents state of the art science and technology development and perspectives of resource management Written and designed with a broad audience in mind the entries clearly elucidate the issues for readers at all levels Volume I Land includes 98 entries that cover the topical areas of renewable and nonrenewable natural resources such as forest and vegetative soil terrestrial coastal and inland wetlands landscape structure and function and change biological diversity ecosystem services protected areas and management natural resource economics and resource security and sustainability In Volume II Water includes 59 entries and Air includes 31 entries The Water entries cover topical areas such as fresh water groundwater water quality and watersheds ice and snow coastal environments and marine resources and economics The Air entries cover air pollutants atmospheric oscillation circulation patterns and atmospheric water storage as well as agroclimatology climate change and extreme events Additional topics in meteorology include acid rain drought ozone depletion water storage and more Natural resources represent such a broad scope of complex and challenging topics that a reference book must cover a vast number of subjects in order to be

titled an encyclopedia The Encyclopedia of Natural Resources does just that The topics covered help readers face current and future issues in the maintenance of clean air and water as well as the preservation of land resources and native biodiversity *New Approaches to Teaching High School Ecology* Jennifer M. Swank-Day,2004 *Teaching the Animal* ,

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*Science* John Michels (Journalist),2010 **The Pearson CSAT Manual 2012** Edgar Thorpe,2012 **Official Meeting Program** Ecological Society of America. Meeting,2008 *Breakthroughs* ,2003 *Indian Science Abstracts* ,1993 *Nature* Sir Norman Lockyer,2004 **Current Advances in Ecological & Environmental Sciences** ,1996 *Agrindex* ,1995 **Forest Wildlife-habitat Relationships** Stephen DeStefano,Robert G. Haight,2002 **Belk Laboratory Manual** Virginia Borden,Virginia Borden Maier,Colleen Belk,2004-04

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