

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 Lab

Lothar Mueller, Frank Eulenstein



Relationships And Biodiversity Lab:

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

Argument-driven Inquiry in Biology Victor Sampson, 2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren't sure how to do it You aren't alone This book will provide you with both the information and instructional materials you need to start using this method right away Argument Driven Inquiry in Biology is a one stop source of expertise advice and investigations The book is broken into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 27 field tested labs that cover molecules and organisms ecosystems heredity and biological evolution The investigations are designed to be more authentic scientific experiences than traditional laboratory activities They give your students an opportunity to design their own methods develop models collect and analyze data generate arguments and critique claims and evidence Because the authors are veteran teachers they designed Argument Driven Inquiry in Biology to be easy to use and aligned with today's standards The labs include reproducible student pages and teacher notes The investigations will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today's teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Biology does all of this even as it gives students the chance to practice reading writing speaking and using math in the context of science

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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

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Phylogenomic Discordance in Plant Systematics Stefan Wanke, Susann Wicke, 2023-11-15 Phylogenetics often uncovers contradicting hypotheses regarding the relationships within the same group of organisms a phenomenon known since the beginning of the molecular systematics era While historically single marker based analyses produced discordance nowadays entire cellular genomes or portions of the same genomic compartment conflict with others or the rest respectively In contrast to the beginning of the molecular systematics era when adding markers and taxa offered a way out of systematic errors genome inference based incongruences cannot be addressed and explained easily Disagreeing phylogenomic hypotheses might originate from various evolutionary processes including but not limited to hybridization or incomplete lineage sorting thereby leading to gene tree versus species tree associated discrepancies Today this can be expanded to genome discordance where phylogenomic signals of organellar genomes plastid mitochondrial and the nuclear genome disagree due to intrinsically different coalescent paths or phenomena like organelle capture

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

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 involvement management stewardship and conservation

Ecological Networks Mercedes Pascual, Jennifer A. Dunne, 2006 Food webs are one of the most useful and challenging objects of study in ecology These networks of predator prey interactions conjured in Darwin's image of a tangled bank provide a paradigmatic example of complex adaptive systems This book is based on a February 2004 Santa Fe Institute workshop Its authors treat the ecology of predator prey interactions food web theory structure and dynamics The book explores the boundaries of what is known of the relationship between structure and dynamics in ecological networks and will define directions for future developments in this field

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rule of law, the two cornerstones of immigration policy in developed countries — the border and individual ... Saskia Sassen by S Sassen · Cited by 159 — Next I briefly examine the question of immigrant remittances as one lens into the broader subject of the formation of alternative political economies and how ... Questions and answers on biosimilar ... Sep 27, 2012 — Questions and answers. Questions and answers on biosimilar medicines (similar biological medicinal products). What is a biological medicine? A ... Guidance for Industry guidance document (Questions and Answers on Biosimilar Development and the BPCI Act) and. December 2018 draft guidance document (New and Revised Draft Q&As ... Questions and answers for biological medicinal products 1. How can specification limits be clinically justified for a biosimilar? September 2023. Frequently Asked Questions About Biologic and Biosimilar ... Answer: A biosimilar is a biologic product developed to be highly similar to a previously FDA approved biologic, known as the reference product. A ... Questions and Answers on Biosimilar Development ... Sep 20, 2021 — ... biosimilar and interchangeable products. This final guidance document ... product has the same “strength” as the reference product. FDA ... Biosimilars Frequently Asked Questions What is a biosimilar? · What is a biologic product? · What is the difference between a biosimilar and a generic? · What is Immunogenicity? · What does the approval ... Biosimilars: Questions and Answers on ... Dec 12, 2018 — The Food and Drug Administration (FDA or Agency) is announcing the availability of a final guidance for industry entitled “Questions and ... Biological and biosimilar medicines - What patients should answers to a range of questions on biological and biosimilar medicines. The ... Are biosimilar medicines the same as generic medicines? No. A biosimilar ... How Similar Are Biosimilars? What Do Clinicians Need to ... by C Triplitt · 2017 · Cited by 15 — Biosimilars are not the same as generics; they are similar, but not identical, to their reference drug, meaning that they may have small differences that could ... Biosimilar Drugs: Your Questions Answered Is a biosimilar comparable to the original biologic drug? Yes. It is not an ... As manufacturers compete with each other to make similar products at lower ... Life in a Gall | CSIRO Publishing by R Blanche · 2012 · Cited by 19 — It explores the ways the insects have adapted to living part of their lives in the confined spaces of galls, and describes the strategies employed by different ... Life in a Gall: The Biology and Ecology of ... - Amazon.com It explores the ways the insects have adapted to living part of their lives in the confined spaces of galls, and describes the strategies employed by different ... Life in a Gall , Rosalind Blanche, 9780643106444 Introduces the Australian native insects that induce galls on plants and the plant species that host them. What are plant galls and how are they caused? Life in a Gall: The Biology and Ecology of ... - Amazon.com It explores the ways the insects have adapted to living part of their lives in the confined spaces of galls, and describes the strategies employed by different ... Life in a Gall: The Biology and Ecology of Insects That Live in ... This fine book provides a concise and approachable introduction to the intimate world of galls—plant tissues whose development is controlled by another ... Life In A Gall The Biology And Ecology Of Insects Pdf Pdf - Sirona Michele A. J. Williams 1994 Plant galls may be produced by a wide variety of organisms, from fungi to parasitic insects, on an equally wide. Life in a gall. The

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