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 I 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.
 - 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 Answers

Liz Carlisle

Relationship And Biodiversity Lab Answers:

Biology Eric Strauss, Marylin Lisowski, 2000 **Lesson Imaging in Math and Science** Michelle Stephan, David Pugalee, Julie Cline, Chris Cline, 2016-10-26 From respected voices in STEM education comes an innovative lesson planning approach to help turn students into problem solvers lesson imaging In this approach teachers anticipate how chosen activities will unfold in real time what solutions questions and misconceptions students might have and how teachers can promote deeper reasoning When lesson imaging occurs before instruction students achieve lesson objectives more naturally and powerfully A successful STEM unit attends to activities questions technology and passions It also entails a careful detailed image of how each activity will play out in the classroom Lesson Imaging in Math and Science presents teachers with A process of thinking through the structure and implementation of a lesson A pathway to discovering ways to elicit student thinking and foster collaboration An opportunity to become adept at techniques to avoid shutting down the discussion either by prematurely giving or acknowledging the right answer or by casting aside a wrong answer Packed with classroom examples lesson imaging templates and tips on how to start the process this book is sure to help teachers anticipate students ideas and questions and stimulate deeper learning in science math engineering and technology 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 **Reptile Biodiversity** Roy W. McDiarmid, 2012-01-10 Authoritative and comprehensive provides an up to date description of the tool box of methods for inventorying and monitoring the diverse spectrum of reptiles All biodiversity scientists will want to have it during project planning and as study progresses A must for field biologists conservation planners and biodiversity managers Jay M Savage

San Diego State University Kudos to the editors and contributors to this book From the perspective of a non ecologist such as myself who only occasionally needs to intensively sample a particular site or habitat the quality and clarity of this book has been well worth the wait Jack W Sites Jr Laboratory Manual for Introductory Biology Carl S. Lieb, Jerry D. Johnson, Lillian F. Mayberry, Reuven Lazarowitz, 2002-06 Encyclopedia of Biodiversity, 2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms 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 **Human-Computer Interaction. Theoretical Approaches and** Design Methods Masaaki Kurosu, 2022-06-16 The three volume set LNCS 13302 13303 and 13304 constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 24th International Conference on Human Computer

Interaction HCII 2022 which took place virtually in June July 2022 The 132 papers included in this HCI 2022 proceedings were organized in topical sections as follows Part I Theoretical and Multidisciplinary Approaches in HCI Design and Evaluation Methods Techniques and Tools Emotions and Design and Children Computer Interaction Part II Novel Interaction Devices Methods and Techniques Text Speech and Image Processing in HCI Emotion and Physiological Reactions Recognition and Human Robot Interaction Part III Design and User Experience Case Studies Persuasive Design and Behavioral Change and Interacting with Chatbots and Virtual Agents The Software Encyclopedia ,1988 JLACE-PDF Jharkhand Lab Assistant Competitive Exam Biology Subject eBook Chandresh Agrawal,nandini books,2024-06-27 SGN The JLACE PDF Jharkhand Lab Assistant Competitive Exam Biology Subject eBook Covers Objective Questions Asked In Various Competitive Exams With Answers 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

Transdisciplinary Research for Understanding and Transforming Food Systems Alexandros Gasparatos, Laura M. Pereira, Cyrille Rigolot, 2023-10-30 Food systems are currently facing tremendous challenges and changes globally On the one hand population growth urbanization and increased affluence are expected to catalyze dietary shifts and broader changes to food systems in the coming decades On the other hand food systems and changes therein have major environmental and social ramifications As a result fostering the sustainable transformation of food systems is seen as one of the major challenges for meeting the Sustainable Development Goals SDGs However understanding food systems and transforming them in a sustainable manner is far from straightforward especially as our food systems have multiple intersecting economic social technological and cultural dimensions Moreover food systems encompass different stakeholders operating at different levels with enormously different interests and worldviews **Healing Grounds** Liz Carlisle, 2022-03-10 A powerful movement is happening in farming today farmers are reconnecting with their roots to fight climate change For one woman that s meant learning her tribe s history to help bring back the buffalo For another it s meant preserving forest purchased by her great great uncle among the first wave of African Americans to buy land Others are rejecting monoculture to grow corn beans and squash the way farmers in Mexico have done for centuries Still others are rotating crops for the native cuisines of those who fled the American wars in Southeast Asia In Healing Grounds Liz Carlisle tells the stories of Indigenous Black Latinx and Asian American farmers who are reviving their ancestors methods of growing food techniques long suppressed by the industrial food system These farmers are restoring native prairies nurturing beneficial fungi and enriching soil health While feeding their communities and revitalizing cultural ties to land they are steadily stitching ecosystems back together

and repairing the natural carbon cycle This Carlisle shows is the true regenerative agriculture not merely a set of technical tricks for storing CO2 in the ground but a holistic approach that values diversity in both plants and people Cultivating this kind of regenerative farming will require reckoning with our nation's agricultural history a history marked by discrimination and displacement And it will ultimately require dismantling power structures that have blocked many farmers of color from owning land or building wealth The task is great but so is its promise By coming together to restore these farmlands we can not only heal our planet we can heal our communities and ourselves Mendel's Ark Amy Lynn Fletcher, 2014-09-19 Does extinction have to be forever As the global extinction crisis accelerates conservationists and policy makers increasingly use advanced biotechnologies such as reproductive cloning polymerase chain reaction PCR and bioinformatics in the urgent effort to save species Mendel s Ark considers the ethical cultural and social implications of using these tools for wildlife conservation Drawing upon sources ranging from science to science fiction it focuses on the stories we tell about extinction and the meanings we ascribe to nature and technology The use of biotechnology in conservation is redrawing the boundaries between animals and machines nature and artifacts and life and death The new rhetoric and practice of de extinction will thus have significant repercussions for wilderness and for society The degree to which we engage collectively with both the prosaic and the fantastic aspects of biotechnological conservation will shape the boundaries and ethics of our desire to AGRICULTURE QUESTION BANK NARAYAN CHANGDER, 2023-03-01 Note Anyone can request restore lost worlds the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are provided at the end of each page It will undoubtedly serve as the best preparation material for aspirants This book is an engaging guiz eBook for all and offers something for everyone This book will satisfy the curiosity of most students while also challenging their trivia skills and introducing them to new information Use this invaluable book to test your subject matter expertise Multiple choice exams are a common assessment method that all prospective candidates must be familiar with in today s academic environment Although the majority of students are accustomed to this MCQ format many are not well versed in it To achieve success in MCQ tests quizzes and trivia challenges one requires test taking techniques and skills in addition to subject knowledge It also provides you with the skills and information you need to achieve a good score in challenging tests or competitive examinations Whether you have studied the subject on your own read for pleasure or completed coursework it will assess your knowledge and prepare you for competitive exams guizzes trivia and more **AP BIOLOGY** NARAYAN CHANGDER, 2022-12-19 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u gmail com I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive examinations It contains many objective questions specifically designed for different exams Answer keys are

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Symphony in C Robert M. Hazen,2019-06-11 A Science News Favorite Book of 2019 An earth scientist reveals the dynamic biography of the most resonant and most necessary chemical element on Earth Carbon It s in the fibers in your hair the timbers in your walls the food that you eat and the air that you breathe It s worth billions of dollars as a luxury and half a trillion as a necessity but there are still mysteries about the element that can be both diamond and coal Where does it come from what does it do and why above all does life need it With poetic storytelling Robert M Hazen leads us on a global journey through the origin and evolution of life s most essential and ubiquitous element *The American Naturalist*, 2009

Resources in Education ,2001 **Prosocial** Paul W.B. Atkins, David Sloan Wilson, Steven C. Hayes, 2019-10-01 A groundbreaking comprehensive program for designing effective and socially equitable groups of all sizes from businesses and social justice groups to global organizations Whether you work in business or schools volunteer in neighborhoods or church organizations or are involved in social justice and activism you understand the enormous power of groups to enact powerful and lasting change in the world But how exactly do you design build and sustain effective groups Based on the work of Nobel Prize winning economist Elinor Ostrom and grounded in contextual behavioral science evolutionary science and acceptance and commitment therapy ACT Prosocial presents a practical step by step approach to help you energize and strengthen your business or organization Using the Prosocial model you ll learn to design groups that are more harmonious have better member or employee retention have better relationships with other groups or business partners and have more success and longevity Most importantly you ll learn to target the characteristics that foster cooperation and collaboration key ingredients for any effective group

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