

Relationships and Biodiversity Lab

Introduction:

In this lab you will perform a number of tests to determine evolutionary relationships between a very important (but endangered) plant species, *Betula carnea* and three related plant species (A, Y and Z).

Scenario:

Betula carnea is a very valuable plant species because it produces **Cureol**, a certain type of compound used for treating cancer. Cureol cannot be produced in the laboratory. *Betula carnea* grows very slowly and is on the endangered species list so it is unable to produce large quantities of Cureol. There are three other plant species (A, Y and Z) related to *Betula carnea* that are not endangered. The species that is most closely related to *Betula carnea* is most likely to serve as a source for the important compound Cureol and help to cure cancer. Your job is to determine which species is the most closely related to the endangered species *Betula carnea* and therefore the most likely to be used as a source for the important compound Cureol.

Lab Activity Tests 1-3:

Test 1: Structural Characteristics of Plants

- Compare the structural characteristics of the plant samples. Record your observations in Table 1.

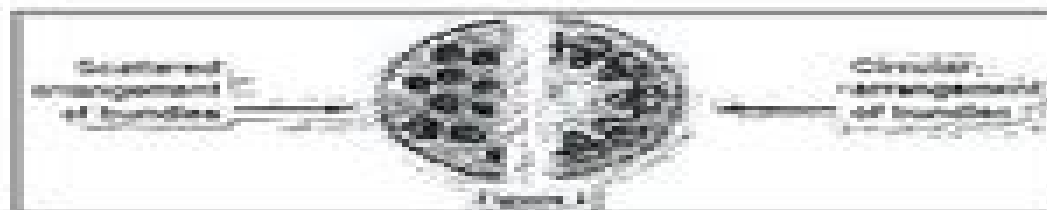
Test 2: Structural Characteristics of Seeds

- Compare the structural characteristics of the seed samples. Record your observations in Table 2.

Test 3: Microscope Internal Structure of Stems

- Compare the internal structure of the stem samples. Determine whether the bundles of conducting tissues are scattered (see below) or arranged in a circular pattern (see below).

in Table 3.



draw an
on circular
diagram
Record your
observations.

Hypotheses: Tests 1-3

- a. Based on your data for structural relationships, which species (A, Y or Z) would you hypothesize is most likely to produce the compound Cureol?
- b. Explain how the data you collected supports your hypothesis. You will confirm your hypothesis with further tests.

Le Relationships And Biodiversity Lab Answers

RJ Shavelson



Le Relationships And Biodiversity Lab Answers:

Relationships Between Stand Age, Stand Structure, and Biodiversity in Aspen Mixedwood Forests in Alberta Alberta Environmental Centre, Canadian Forest Service, 1995 In response to concerns that intensive logging of Alberta's boreal mixedwood forests may result in a change in forest structure and biota this report describes forest structure and composition of plant and animal communities in young mature and old aspen mixedwood stands of fire origin in Alberta The information in this report serves as a reference against which structure and biota in harvested forests can be compared The report begins with a general overview of the flora and fauna of the aspen mixedwood forest and an examination of the rationale and possible consequences of commercial aspen forestry Subsequent chapters explore relationships between stand age and microclimate forest structure and floristics down woody material understory vegetation nonvascular species birds and mammals Chapters addressing featured species cover ungulates bats and the flying squirrel The final chapters discuss relationships between the vertebrate community and forest structure and provide recommendations for aspen mixedwood forest management in Alberta

Resources in Education ,2001 **General Technical Report SRS** ,1995 *Journal of the Pennsylvania Academy of Science* ,1994 **Information Report** ,1985 **Climate Change and Cities** Cynthia Rosenzweig, William D. Solecki, Patricia Romero-Lankao, Shagun Mehrotra, Shobhakar Dhakal, Somayya Ali Ibrahim, 2018-03-29 The Urban Climate Change Research Network's Second Assessment Report on Climate Change in Cities ARC3 2 is the second in a series of global science based reports to examine climate risk adaptation and mitigation efforts in cities The book explicitly seeks to explore the implications of changing climatic conditions on critical urban physical and social infrastructure sectors and intersectoral concerns The primary purpose of ARC3 2 is to inform the development and implementation of effective urban climate change policies leveraging ongoing and planned investments for populations in cities of developing emerging and developed countries This volume like its predecessor will be invaluable for a range of audiences involved with climate change and cities mayors city officials and policymakers urban planners policymakers charged with developing climate change mitigation and adaptation programs and a broad spectrum of researchers and advanced students in the environmental sciences

Canadian Journal of Botany ,2004 *Popular Science Monthly and World Advance* ,1925 Cybiurn ,2008 **Key-word-index of Wildlife Research** Rolf Anderegg, 2002 **Canadian Periodical Index** ,2000 **Journal of the North Carolina Academy of Science** ,2008 **Current Index to Journals in Education** ,1997 *EPA Publications Bibliography, 1984-1990* ,1990 **Undergraduate and Graduate Courses and Programs** Iowa State University, 2001 Zoosystematica Rossica ,2003 Government Reports Announcements & Index ,1990-11 **Agrindex** ,1995 **Indian Science Abstracts** ,2003-05 Ecology 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 areas 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
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Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands

Decoding **Le Relationships And Biodiversity Lab Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Le Relationships And Biodiversity Lab Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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