

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 have 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.

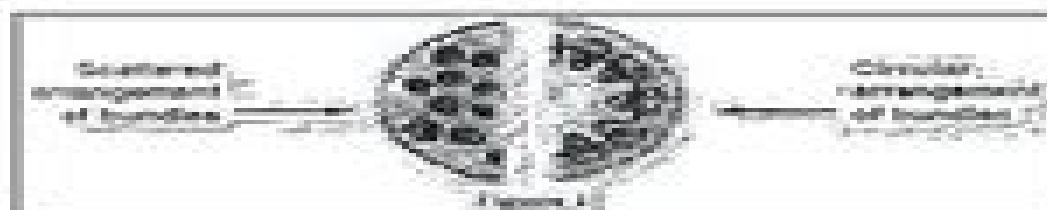
Test 2: Structural Characteristics of Seeds

- 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.

Relationships And Biodiversity Lab Packet Answers

K Morrison



Relationships And Biodiversity Lab Packet Answers:

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Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994 Natural Behavior ,2024-08-01 Natural Behavior Volume 66 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors There is a long history of studying natural behavior in science In 1872 Charles Darwin documented his observations on the development of his children in words which was published in an article titled A Biographical Sketch of an Infant Traditionally observational studies like this had been viewed as insightful but also criticized as not objective and quantitative More recently building on advanced computation the contemporary approaches to studying natural behavior in the real world delivered quantitative results New sensing and wearable technologies allow researchers to collect high density data in everyday contexts With technological advances we can scale up and obtain quantitative results from real world data This volume contains a collection of papers on studying natural behavior of child development Those papers aim at understanding and predicting behavior and cognition as it occurs within complex real world situations Compared with findings from laboratories the results derived from natural behavior are remarkably reliable which provides an answer to the reproducibility crisis in science Moreover the findings based on natural behavior can be directly applied to the real world especially in the health and education domains Latest research on understanding development based on children s natural behavior rather than behavior based on short term visits in laboratory settings New methods for studying and analyzing children s natural behavior across short and extended time scales Cross cutting research across different domains e g language cognition interpersonal coordination linked by a focus on natural behavior

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