

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.

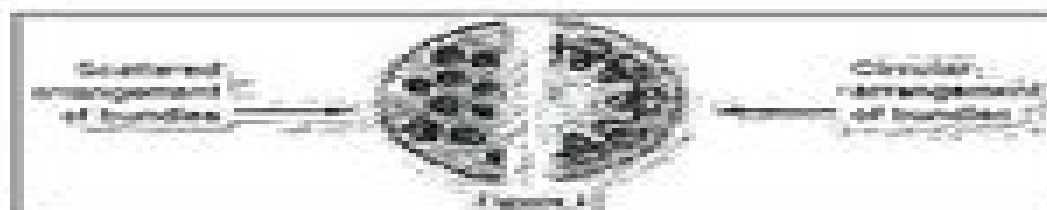
Test 2: Structural Characteristics of Seeds

- 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.

Relationships And Biodiversity Lab Packet Answers

JR Anderson



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