



Name _____ Period _____ Date _____

Structural Evidence for Relationships

Test 1—Structural Characteristics of Plants

- b. Compare the structural characteristics of the plant samples. Record your observations in Table 1 (page 5 of this packet).

Test 2—Structural Characteristics of Seeds

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

Test 3—Microscopic Internal Structures of Stems

- b. Record your observations of the conducting tissue arrangements in Table 1.

Hypothesize: Tests 1-3

- a. Based on your data for structural relationships, which species (X, Y, or Z) would you hypothesize is most likely to produce Curol? X, Y, Z
- b. Explain how the evidence from your data table supports your hypothesis. You will test your hypothesis by completing additional tests in the second part of this laboratory activity.

Each species had equal amounts of characteristics

Molecular Evidence for Relationships

Test 4—Paper Chromatography To Separate Plant Pigments

- h. Record your observations of the colors and relative amounts of pigments in Table 1.

Test 5—Indicator Tests for Enzyme M

- e. Record the results of your tests for enzyme M in Table 1.

Test 6—Using Simulated Gel Electrophoresis To Compare DNA

- f.g.h. Mark a horizontal line to indicate the final position of each fragment of *Botana curus* DNA on the simulated electrophoresis gel (Table 2, page 6 of this packet). Record the size of the fragments (number of bases in each) in Table 1. Do the same for the fragments from the other three species.

Laboratory Activity Botanus Lab Answer

Almuth Tschunko

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Laboratory Techniques in Botany Marion Joy Purvis, D. C. Collier, D. Walls, 1966 General laboratory apparatus and techniques Preserving fixing and embedding Section cutting and mounting Stains and staining techniques Special histological techniques Some useful tests for biologically important substances Care of plants and aquaria Museum and herbarium work Culture techniques Growth Photosynthesis and respiration Water relations Manometry Chromatography Distillation techniques Analysis of soils Waters and plant material Measurement of enzyme activity in plants and microorganisms **Laboratory Investigations for Biology** Jean Dickey, 1995 An investigative approach actively involves students in the process of scientific discovery by allowing them to make observations devise techniques and draw conclusions Twenty carefully chosen laboratory topics encourage students to use their critical thinking skills to solve problems using the scientific method **Plant Biology Laboratory Manual** Almuth Tschunko, 2007 Contains 22 inquiry based labs with minimum cost and equipment needs The labs are designed to encourage a holistic understanding of plants what plants do daily and through the seasons and years as well as the plants roles in the ecosystems Lab investigations range from outdoor to in lab experimental to observational to discussion short term to long term partly to wholly student designed The labs include learning objectives an introduction and procedures thought questions and an extended assignment or investigation Appendices cover the metric system data presentation and statistics t test

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