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.



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rivers and lakes in their native South America as well as other regions of the world where they have been introduced The book is written in clear prose that allows any reader to appreciate key features of the morphology population genetics and reproductive biology of these colorful tropical freshwater fish Each chapter begins with a vignette introducing an aspect of peacock bass taxonomy ecology or conservation based on a personal account from one of the authors Also included are color photographs of peacock bass their habitats other tropical fishes and the diverse wildlife encountered in rivers and forests of the Neotropics Photographic guides and detailed descriptions of coloration patterns are provided for species identification along with distribution maps and essential information related to fisheries management and the economic importance of peacock bass Biologists interested in zoogeography and the ecological role peacock bass play as major predators in biodiverse rivers and lakes will find summaries of the latest information Peacock bass have grown in popularity among aquarists and the book provides basic information about captive care and environmental conditions in their natural habitats This book is essential reading for biologists fisheries managers anglers naturalists and aquarists interested in these remarkable fish and the diverse tropical rivers they inhabit Includes beautiful color photographs taken during field research Presents research vignettes to engage both scientists and laypersons Discusses feeding cannibalism and effects on food webs Provides field maps and diagrams Creating Strategic Partnerships Marilyn J. Amey, Pamela L. Eddy, 2023-07-03 What are the characteristics and conditions that lead to successful educational partnerships What can we learn from partnerships that fail cannot be sustained over time or cease to benefit their partners This book serves as a guide to the successful implementation of partnerships It provides the context and tools for readers who are responding to the increasing demands of policy makers funders and institutional leaders to use partnerships to address local state and federal issues achieve external mandates meet public or internal agendas or pursue international collaborations. This guide provides an evidence based framework for institutional and organizational leaders to develop the vision shared values and norms to achieve the partnership capital that will sustain an enduring relationship It offers a three phase model of the development process of collaboration together with a tool box for those charged with partnering and leading organizational change and includes a template for both creating new partnerships and sustaining existing ones The authors start by differentiating between traditional often ad hoc partnerships and strategic partnerships that align organizational strategy with partnership actions and by identifying the importance of moving beyond incremental or surface first order change to develop deep second order change through which underlying structures and operations are questioned and new processes emerge due to the partnership They offer analyses and understandings of seven key components for success exploring motivations developing partner relationships communicating and framing purpose creating collaborative structures and resources leading various partnership stages generating partnership capital and implementing strategies for sustaining partnerships Each chapter concludes with a case study to provide more understanding of the ideas presented and for use in training or classes This

guide is addressed to policy makers and educational leaders college administrators and their non profit and business partners to enable them to lead and create strategic partnerships and facilitate organizational change

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