

BIO 103 Lab 22: Stem Lab

Materials

1. *Plectranthus scutellaroides* (coleus), fresh
2. *Plectranthus scutellaroides* (coleus) stem tip l.s. prepared slides
3. *Helianthus* (sunflower) stem c.s. prepared slides
4. *Zea mays* (corn) stem c.s. prepared slides
5. *Tilia* (basswood) 1, 2, & 3 yr old stem c.s. prepared slides
6. *Sambucus* (elderberry) lenticel prepared slide, demonstration
7. *Pinus* (pine) stem XRT prepared slide, demonstration
8. Examples of stem modifications including: rhizomes, tubers, bulbs, corms, tendrils, runners, thorns, and cladophylls
9. Twigs
10. Wood blocks
11. Pieces of branches showing wood and bark

Some Suggested Learning Goals

1. Know the externally visible parts of a woody twig in its winter condition and know their derivations or functions.
2. Know the locations and functions in a monocot stem of epidermis, cortex, primary phloem, primary xylem, and pith.
3. Know the locations and functions in young eudicot stems of epidermis, cortex, primary phloem, primary xylem, and pith, and what additional tissues are produced in older eudicot stems.
4. Understand the differences and similarities between monocot and eudicot stems.
5. Know the functions of plant stems.
6. Explain the difference between primary growth and secondary growth in eudicot stems.
7. Differentiate between springwood and summerwood and between heartwood and sapwood.
8. Explain the differences between radial, tangential, and transverse wood cuts and identify each from prepared slides.

Introduction

The above ground portion of the plant is called the **shoot** and includes both the stems and the leaves. Stems are modular. Each repeating module contains a **node** and **internode**. The node is the region of the stem where one or more leaves attach to the stem and a lateral bud is present, which can grow out to become a lateral branch. The internodes are simply the space between the nodes.

The stems provide support for the leaves, enabling them to intercept the light to optimize photosynthesis. In addition, the vascular tissue, in the stems, transports water from the roots to the leaves and carbohydrates from the mature leaves to the roots, flowers, fruits, and immature leaves.

Some eudicot plants live for several years, long enough to develop stems with **secondary growth**, forming **wood** and **bark**. This secondary growth increases the girth of

This lab is adapted from:

Evert RF, Eichhorn SE, Perry JB. 2013. Laboratory Topics in Botany. 8th ed. New York: WH Freeman; 23-1, 25-1, & 26-1 p.

Bio 103 Lab Manual Exercise 3

Joy B. Perry



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Laboratory Manual for Hole's Human Anatomy and Physiology PHILLIP. MARTIN SNIDER (TERRY.),2021

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1. Understanding the eBook Bio 103 Lab Manual Exercise 3
 - The Rise of Digital Reading Bio 103 Lab Manual Exercise 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Bio 103 Lab Manual Exercise 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bio 103 Lab Manual Exercise 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bio 103 Lab Manual Exercise 3
 - Personalized Recommendations

- Bio 103 Lab Manual Exercise 3 User Reviews and Ratings
- Bio 103 Lab Manual Exercise 3 and Bestseller Lists
- 5. Accessing Bio 103 Lab Manual Exercise 3 Free and Paid eBooks
 - Bio 103 Lab Manual Exercise 3 Public Domain eBooks
 - Bio 103 Lab Manual Exercise 3 eBook Subscription Services
 - Bio 103 Lab Manual Exercise 3 Budget-Friendly Options
- 6. Navigating Bio 103 Lab Manual Exercise 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Bio 103 Lab Manual Exercise 3 Compatibility with Devices
 - Bio 103 Lab Manual Exercise 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bio 103 Lab Manual Exercise 3
 - Highlighting and Note-Taking Bio 103 Lab Manual Exercise 3
 - Interactive Elements Bio 103 Lab Manual Exercise 3
- 8. Staying Engaged with Bio 103 Lab Manual Exercise 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bio 103 Lab Manual Exercise 3
- 9. Balancing eBooks and Physical Books Bio 103 Lab Manual Exercise 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bio 103 Lab Manual Exercise 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bio 103 Lab Manual Exercise 3
 - Setting Reading Goals Bio 103 Lab Manual Exercise 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bio 103 Lab Manual Exercise 3
 - Fact-Checking eBook Content of Bio 103 Lab Manual Exercise 3

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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