

## **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*. 8<sup>th</sup> ed. New York: WH Freeman; 23-1, 25-1, & 26-1 p.

# Bio 103 Lab Manual

**Sebastian Brünink**



## **Bio 103 Lab Manual:**

Botany Lab Manual, BIO 103 Susan Lamont, 2014      Biology 103 Jennifer Ripley Stueckle, 2020 The labs in this manual were chosen to complement the material covered in the Biology 101 lecture at WVU Some labs will match the lecture schedule better than others but the labs will give a chance to review or preview material covered in the lecture class Other labs will cover subjects not covered in lecture or are easier to understand in a hands on environment      **Beyond Bio 101**, 1996      *College Science Improvement Programs; COSIP A & B Report* National Science Foundation (U.S.). Office of Experimental Programs, 1974      BioSupplyNet Source Book, 2000      **Pure and Applied Science Books, 1876-1982**, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes      **Biology**, 1999      **Whitaker's Cumulative Book List**, 1972      **Subject Guide to Books in Print**, 2001      **General Program, Annual AIBS Meeting of Biological Societies** American Institute of Biological Sciences, 1966      Laboratory Manual for B 103 and B 104, General Biology, 1965-1966 University of Delaware. Department of Biological Sciences, 1966      **The Journal of Cell Biology**, 1996      **Index-catalogue of the Library of the Surgeon-general's Office, United States Army National Library of Medicine (U.S.)**, 1937      **American Journal of Respiratory Cell and Molecular Biology**, 1993      The Vitamine Manual Walter Hollis Eddy, 1921      *Whitaker's Five-year Cumulative Book List*, 1958      **Bookseller and the Stationery Trades' Journal**, 1975      **Books in Print**, 1977      **American Book Publishing Record Cumulative 1998** R R Bowker Publishing, 1999-03      *Proceedings of the Annual Meeting* International Association of Boards of Examiners in Optometry. Annual Meeting, 1952

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