

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.

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National Academy of Sciences (U.S.)



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A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 **Beyond Bio 101** ,1996 *AP Biology For Dummies* Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you re even considering taking the AP Biology exam means you re smart hard working and ambitious All you need is to get up to speed on the exam s topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That s where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you ll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust you exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed **Omics Technologies and Bio-engineering** Debmalya Barh, Vasco Ariston De Car Azevedo, 2017-12-01 Omics Technologies and Bio Engineering Towards Improving Quality of Life Volume 1 is a unique reference that brings together multiple perspectives on omics research providing in depth analysis and insights from an international team of authors The book delivers pivotal information that will inform and improve medical and biological research by helping readers gain more direct access to analytic data an increased understanding on data evaluation and a comprehensive picture on how to use omics data in molecular biology biotechnology and human health care Covers various aspects of biotechnology and bio engineering using omics technologies Focuses on the latest developments in the field including biofuel technologies Provides key insights into omics approaches in personalized and precision medicine Provides a complete picture on how one can utilize omics data in molecular biology biotechnology and human health care **BioSupplyNet Source Book** ,2000 **Starr and Taggart's Biology** James W. Perry, David Morton, Cecie Starr, Joy B. Perry, 2002 In this new edition of a user friendly laboratory manual for an entry level course in biology James W and Joy B Perry U of Wisconsin Fox Valley and David Morton Frostburg State U provide numerous inquiry oriented experiments increased emphasis on hypothesis generation and testing and new exercises on homeostasis biological macromolecules biotechnology human senses alleopathy and interspecific interactions stream ecology and sampling and animal behavior Each exercise includes objectives an introduction materials procedures and pre and post lab questions Contains color and b w photographs and drawings **Baxter Laboratories, Inc. V. Corn Products**

Company ,1967 **Prep Guide Biology** Campbell,1994-02 **A Manual of Physiology** George Neil Stewart,1918

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The Journal of Cell Biology ,1995 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972 **Recombinant DNA: Genes and Genomes** James D. Watson,2007 *Recombinant DNA* Third Edition is an essential text for undergraduate graduate and professional courses in Genomics Cell and Molecular Biology *Recombinant DNA Genetic Engineering Human Genetics Biotechnology and Bioinformatics* The Third Edition of this landmark text offers an authoritative accessible and engaging introduction to modern genome centered biology from its foremost practitioners The new edition explores core concepts in molecular biology in a contemporary inquiry based context building its coverage around the most relevant and exciting examples of current research and landmark experiments that redefined our understanding of DNA As a result students learn how working scientists make real high impact discoveries The first chapters provide an introduction to the fundamental concepts of genetics and genomics an inside look at the Human Genome Project bioinformatic and experimental techniques for large scale genomic studies and a survey of epigenetics and RNA interference The final chapters cover the quest to identify disease causing genes the genetic basis of cancer and DNA fingerprinting and forensics In these chapters the authors provide examples of practical applications in human medicine and discuss the future of human genetics and genomics projects **Encyclopedia of Microfluidics and Nanofluidics** Dongqing Li,2008-08-06 Covering all aspects of transport phenomena on the nano and micro scale this encyclopedia features over 750 entries in three alphabetically arranged volumes including the most up to date research insights and applied techniques across all areas Coverage includes electrical double layers optofluidics DNC lab on a chip nanosensors and more **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2005 **Index Medicus** ,1916 **Endocrinology** Leslie J. DeGroot,2006 Revised throughout the 5th Edition presents a complete and up to date review and analysis of all aspects of endocrinology diabetes and bone metabolism Readers will also find state of the art information on genetics proteomics and hormone signaling and coverage of the field 19 s hottest topics in nearly 20 new chapters Joined by an international team of leading experts many new to this edition Drs Jameson and DeGroot provide guidance that integrates the basic science of endocrinology with clinical medicine and the practical management of endocrine disorders with a clinical focus emphasizes diagnosis and therapy It organizes information into basic and clinical sections that makes reference quick and easy and provides tables designed to summarize and organize information

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