

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:

Evett 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

**Grace Yi Qiu Zhong, Patricia Noble
Sullivan**



Bio 103 Lab Manual Exercise 3:

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

Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications James W. [et. al]. Perrry,2002 Biology Laboratory Manual Darrell S. Vodopich,Randy Moore,1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available TOEFL Supercourse Grace Yi Qiu Zhong,Patricia Noble Sullivan,1993 Molecular Biology Techniques Heather B. Miller,D. Scott Witherow,Sue Carson,2011-10-18 This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology or gene cloning and expression The techniques used in basic research and biotechnology laboratories are covered in detail Students gain hands on experience from start to finish in subcloning a gene into an expression vector through purification of the recombinant protein The third edition has been completely re written with new laboratory exercises and all new illustrations and text designed for a typical 15 week semester rather than a 4 week intensive course The project approach to experiments was maintained students still follow a cloning project through to completion culminating in the purification of recombinant protein It takes advantage of the enhanced green fluorescent protein students can actually visualize positive clones following IPTG induction Cover basic concepts and techniques used in molecular biology research labs Student tested labs proven successful in a real classroom laboratories Exercises simulate a cloning project that would be performed in a real research lab Project approach to experiments gives students an overview of the entire process Prep list appendix contains necessary recipes and catalog numbers providing staff with detailed instructions *Concepts Biology Lab Manual* Roger Davis,1995-07 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

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web circle the correct answers the mass of the system a b is m 2m the force that accelerates a b is the weight of a b the weight of b is mg 2 acceleration of a b is less than mg 2mg g g more than g use a to show the acceleration of a b as a fraction of conceptual physics

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web t t toward center of circle yes yes yes f f because centripetal acceleration is not zero n n yes provides centripetal force for circular motion conceptual physics

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web dec 12 2012 1 draw sample force of shown hand 3 a which the b which the 4 it is important to distinguish between force and velocity vectors force vectors combine with other force vectors and velocity vectors combine with other velocity vectors do velocity vectors combine with force vectors no 5

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web mar 4 2013 the distance between the balls decreases the wavelength decreases just as the distance between the balls in question 5 decreases 30 m 30 cm 1 m s

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web our intuitive definition of force that is a push or a pull is a good place to start we know that a push or pull has both magnitude and direction therefore it is a vector quantity and can vary considerably in each regard for example a cannon exerts a strong force on a cannonball that is launched into the air

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