

3

EXERCISE

The Microscope

If students have already had an introductory biology course in which the microscope has been introduced and used, there might be a temptation to skip this exercise. I have found that most students need the review, so I recommend spending this time early in the course to make sure they are all comfortable with the microscope, as it is used extensively throughout the laboratory manual.



Time Allotment: 2 hours.



Solutions:

Bleach Solution, 10%

Measure out 100 milliliters of household bleach. Add water to a final volume of 1 liter.

Methylene Blue Solution (Loeffler's)

Weigh out 0.5 gram methylene blue. Add 1 milliliter 1% potassium hydroxide solution, and 30 milliliters absolute ethanol to 100 milliliters distilled water. Warm the water to about 50 degrees C, stir in methylene blue; filter.

Physiologic Saline (Mammalian, 0.9%)

Weigh out 9 grams of NaCl. Add distilled/deionized water to a final volume of 1 liter. Make fresh just prior to experiment.

Laboratory Materials

Ordering information is based on a lab size of 24 students, working in groups of 4. A list of supply house addresses appears in Appendix A.

24 compound microscopes, lens cleaning solution, lens paper, immersion oil
24 millimeter rulers
24 slides of the letter *e*
24 slides with millimeter grids

24 slides of crossed colored threads (threads should cross at a single junction)
Filter paper or paper towels
1 box of microscope slides
1 box of coverslips
1 box of flat-tipped toothpicks

8–12 dropper bottles of physiologic saline
8–12 dropper bottles of methylene blue stain (dilute) or iodine
24 slides of cheek epithelial cells
10% bleach solution
Autoclave bag, disposable

Advance Preparation

1. Provide each student with a compound microscope, millimeter ruler, bottle of immersion oil, lens paper, and millimeter grid slide. A supply of glass cleaner, such as Windex™, should be available for lens cleaning.
2. Have available slides of the letter *e* and slides of crossed colored threads. Some instructors prefer to have slides for an entire semester available in individual boxes, which can be handed out to students. Others prefer to keep the slides on trays to be distributed as needed.
3. Set up an area for wet mount supplies, including clean microscope slides and coverslips, flat-tipped toothpicks, physiologic saline, methylene blue stain or iodine, and filter paper, or set out prepared slides of cheek epithelial cells.

Pearson Education Microscope Lab Manual

Scott C. Dulebohn



Pearson Education Microscope Lab Manual:

Practical Forensic Microscopy Barbara P. Wheeler, Lori J. Wilson, 2011-08-10 Forensic Microscopy A Laboratory Manual will provide the student with a practical overview and understanding of the various microscopes and microscopic techniques employed within the field of forensic science Each laboratory experiment has been carefully designed to cover the variety of evidence disciplines within the forensic science field with carefully set out objectives explanations of each topic and worksheets to help students compile and analyse their results The emphasis is placed on the practical aspects of the analysis to enrich student understanding through hands on experience The experiments move from basic through to specialised and have been developed to cover a variety of evidence disciplines within forensic science field The emphasis is placed on techniques currently used by trace examiners This unique forensic focused microscopy laboratory manual provides objectives for each topic covered with experiments designed to reinforce what has been learnt along with end of chapter questions report requirements and numerous references for further reading Impression evidence such as fingerprints shoe tread patterns tool marks and firearms will be analysed using simple stereomicroscopic techniques Body fluids drug and trace evidence e g paint glass hair fibre will be covered by a variety of microscopes and specialized microscopic techniques

Prentice Hall Science Explorer: Teacher's ed ,2005 **Science Explorer: Sound and Light** Michael J. Padilla, Martha Cyr, Ioannis Miaoulis, Prentice-Hall Staff, 2002-02-15 1 Fresh Water 2 Freshwater Resources 3 Ocean Motions 4 Ocean Zones

Prentice Hall Science Explorer: the Nature of Science and Technology Andrew Carl Kemp, Prentice-Hall Staff, Beth Miaoulis, Kenneth Welty, 2003-12 Set of books for classroom use in a middle school science curriculum all in one teaching resources volume includes lesson plans teacher notes lab information worksheets answer keys and tests **Prentice Hall Science Explorer: Sound and Light** Michael J. Padilla, Pearson/Prentice Hall, 2004-03-16 Set of books for classroom use in a middle school physical science curriculum all in one teaching resources volume includes lesson plans teacher notes lab information worksheets answer keys and tests Laboratory Imaging & Photography Michael Peres, 2017-01-12 Laboratory Imaging and Photography Best Practices for Photomicrography and More is the definitive guide to the production of scientific images Inside the reader will find an overview of the theory and practice of laboratory photography along with useful approaches to choosing equipment handling samples and working with microscopic subjects Drawing from over 150 years of combined experience in the field the authors outline methods of properly capturing processing and archiving the images that are essential to scientific research Also included are chapters on applied close up photography artificial light photography and the optics used in today s laboratory environment with detailed entries on light confocal and scanning electron microscopy A lab manual for the digital era this peerless reference book explains how to record visual data accurately in an industry where a photograph can serve to establish a scientific fact Key features include Over 200 full color photographs and illustrations A condensed history of scientific photography Tips on using the Adobe Creative Suite for scientific applications A

cheat sheet of best practices Methods used in computational photography **The Pearson Guide to English For the Combined Defence Services Examination** Thorpe, Prentice Hall Science Explorer: Chemical Interactions Pearson/Prentice Hall, Michael J. Padilla, 2004-10 Investing Biology Pearson Education, 2002-11 **Fundamentals of Light Microscopy and Electronic Imaging** Douglas B. Murphy, Michael W. Davidson, 2012-08-22 Fundamentals of Light Microscopy and Electronic Imaging Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system covering both theoretical and practical considerations It expands and updates discussions of multi spectral imaging intensified digital cameras signal colocalization and uses of objectives and offers guidance in the selection of microscopes and electronic cameras as well as appropriate auxiliary optical systems and fluorescent tags The book is divided into three sections covering optical principles in diffraction and image formation basic modes of light microscopy and components of modern electronic imaging systems and image processing operations Each chapter introduces relevant theory followed by descriptions of instrument alignment and image interpretation This revision includes new chapters on live cell imaging measurement of protein dynamics deconvolution microscopy and interference microscopy PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website www.wiley.com/go/murphy/lightmicroscopy *Instructors Resource Guide* Elaine N. Marieb, Barbara Stewart, 2001-11-02 *Laboratory Manual for Human Biology* Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology course Prentice Hall Chemistry Antony C. Wilbraham, 2008 The Pearson Guide to Objective Physics for Medical Entrance Examinations Volume 2, 2009 Human Anatomy Laboratory Manual with Cat Dissections Elaine Nicpon Marieb, 2001 textformat 02 With 29 exercises covering all body systems a clear engaging writing style and full color illustrations this thoroughly updated edition offers readers everything needed for a successful lab experience For college instructors and students The Pearson Guide To Objective Physics For The Iit-Jee, 2/E Dudeja, 2009-09 **Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c** Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students **Research and Innovation in Physics Education: Two Sides of the Same Coin** Jenaro Guisasola, Kristina Zuza, 2020-08-20 This book describes novel approaches designed to enhance the professional training of physics teachers and explores innovations in the teaching and learning of physics in the classroom and laboratory It features selected contributions from the International Research Group on Physics Teaching GIREP and Multimedia in Physics Teaching and Learning MPTL Conference held in Donostia San Sebastian Spain in July 2018 which brought together two communities researchers in physics education and physics teachers The book covers a broad range of topics highlighting important aspects of the relationship between research and innovation in the teaching of physics and presenting fresh insights to help improve learning processes and instruction Offering a contemporary vision of physics teaching and the learning process the book is of interest to all teachers and researchers committed to teaching and

learning physics on the basis of good evidence **Principles and Techniques of Biochemistry and Molecular Biology**
Keith Wilson, John Walker, 2010-03-04 Uniquely integrates the theory and practice of key experimental techniques for
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bioinformatics as well as data analysis and visualisation Using accessible language to describe concepts and methods and
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