

# ANATOMY AND PHYSIOLOGY LABORATORY MANUAL REVIEWER ANSWERS

## LAB EXERCISE 1: THE MICROSCOPE

### INTRODUCTION

- 17th century - **Anton van Leeuwenhoek** (Dutch scientist) used one of the first microscopes to discover a new world of living organisms.
- Anton used a **simple microscope, or single lens microscope** to explore tiny microorganisms in pond water.
- The most commonly used microscope in the laboratory is the **compound microscope** made of a set of lenses.

### PARTS OF THE MICROSCOPE

- ★ **Ocular or eyepiece** - set of lenses closest to the eye; magnifies an image by the factor indicated on the ocular's barrel, usually 10x.
  - Factor 10x → magnifies image by 10 times
  - Factor 5x → magnifies image by 5 times
- ★ **Body tube** - this holds the ocular in place; although called a "tube", it may look like a box in some models.
- ★ **Revolving nosepiece** - a turret-like circular mechanism that rotates to select different lenses; positioned at the bottom of the body tube.
- ★ **Objective** - attached to each set of lenses to the revolving nosepiece. Like the ocular, the objective is also marked with its magnification factor. Microscope may have all of the following objectives:
  - **4x (scanning objective)** - used for initial location of the specimen.
  - **10x (low-power objective)** - used for observing specimens that don't need greater magnification. It may also be used for the initial location of the specimen.
  - **40x (high-dry objective)** - used for specimens requiring greater magnification. This objective is called dry because it does not require the use of oil, as other high-power objectives do.
  - **100x (high-oil objective)** - used for magnification of extremely small specimens, such as bacterial cells. It must be immersed in oil, so it is called the high-oil objective.

# Human Biology Lab Manual Answers Microscope Lab

**Bert Atsma, Sandra Hsu**



## **Human Biology Lab Manual Answers Microscope Lab:**

Visualizing Human Biology Lab Manual, Binder Ready Version Jennifer Ellie, 2011-02-02 This text is an unbound binder ready edition Visualizing Human Biology Lab Manual provides 18 labs specifically designed for the non majors biology student each of which engages students by focusing on the structure and function of each person s own unique body The lab manual includes key experiments with step by step visual guides and more interesting real world topics to connect with students diverse experiences Visuals are used to teach and explain not just illustrate and students with varied learning styles will be engaged The applications of common laboratory techniques in science medicine and everyday life are also explored in each lab topic *Laboratory Manual for Human Biology* Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology course

**Laboratory Manual for Human Biology** Bert Atsma, Sandra Hsu, 2007-02 Designed for the one semester human biology course this full color manual offers activities for 23 laboratory sessions in a variety of formats to allow the instructor to customize these exercises to the needs of their course The lab manual s depth of coverage invites students to explore fundamental concepts of human biology in a laboratory setting

**Discovery-Based Learning in the Life Sciences** Kathleen M. Susman, 2015-09-28 For nearly a decade scientists educators and policy makers have issued a call to college biology professors to transform undergraduate life sciences education As a gateway science for many undergraduate students biology courses are crucial to addressing many of the challenges we face such as climate change sustainable food supply and fresh water and emerging public health issues While canned laboratories and cook book approaches to college science education do teach students to operate equipment make accurate measurements and work well with numbers they do not teach students how to take a scientific approach to an area of interest about the natural world Science is more than just techniques measurements and facts science is critical thinking and interpretation which are essential to scientific research Discovery Based Learning in the Life Sciences presents a different way of organizing and developing biology teaching laboratories to promote both deep learning and understanding of core concepts while still teaching the creative process of science In eight chapters the text guides undergraduate instructors in creating their own discovery based experiments The first chapter introduces the text delving into the necessity of science education reform The chapters that follow address pedagogical goals and desired outcomes incorporating discovery based laboratory experiences realistic constraints on such lab experiments model scenarios and alternate ways to enhance student understanding The book concludes with a reflection on four imperatives in life science research climate food energy and health and how we can use these laboratory experiments to address them Discovery Based Learning in the Life Sciences is an invaluable guide for undergraduate instructors in the life sciences aiming to revamp their curriculum inspire their students and prepare them for careers as educated global citizens **Biology**, 1999 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National

Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

*Concepts Biology Lab Manual* Roger Davis, 1995-07

*Understanding Human Biology* Judith Goodenough, Betty McGuire, 2007-03 Written in an informal style which is easily accessible and interesting to students with no previous background in Biology Focused on collaborative small group activities that encourage student interactions and maximize laboratory resources Designed to provide an understanding of the basic principles of human anatomy and physiology genetics and evolutionary change ecology and the impact of human actions on the environment The exercises are designed to run smoothly even in large laboratory sections with 2540 students Equipment and supplies needed are cost effective and easily accessible to large and small schools Each laboratory exercise is suitable for completion in two or three hour laboratory periods and can be divided to

accommodate 90 minute sessions *Instructors Lab Manual for Biologylabs On-Line* Robert Desharnais, Michael Palladino, Les Bell, 2001 *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 Laboratory Manual for Introductory Biology Carl S. Lieb, Jerry D. Johnson, Lillian F. Mayberry, Reuven Lazarowitz, 2002-06 *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]. Perry, 2002 *Developing Textbook Fluency* Sherrie Nist-Olejnisk, Michele L. Simpson, 1996 *Developing Textbook Fluency* emphasizes a practical three part approach to the demands of discipline specific reading studying and thinking Preparing to Read Connecting During Reading and Rehearsing After Reading PCR Part I covers practical matters facing the beginning college student including motivation and time management Part II offers a selection of readings and study strategies for four academic disciplines psychology history science and technical courses **Thinking about Biology** Mimi Bres, Arnold Weisshaar, 1997-12 This self guided introductory biology lab manual features a full range of activities that show how basic biological concepts can be applied to a wide variety of plants animals and microorganisms It is designed to help readers including those who are academically underprepared acquire the basic knowledge needed to make informed decisions about biological questions that arise in everyday life develop the problem solving skills that will lead to success in a competitive job market and learn to work effectively and productively as a member of a team Focuses on the scientific method requiring readers to develop hypotheses set up experiments collect data record their data in graphs and charts and draw conclusions from their experimental results Offers opportunities to transfer content knowledge to real life applications through questions interwoven into each activity Each laboratory includes a brief discussion of background information hints for solving problems important safety information Comprehension Checks and Self Tests with answers For anyone beginning a study of biology including those who are academically underprepared or from an ESL background Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004 Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall Staff, 2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level **El-Hi textbooks in print** R. R. Bowker LLC, 1983 *Instructor's Manual to Accompany Biology Laboratory* Carolyn Eberhard, 1987 *Human Biology Laboratory Manual* Charles J. Welsh, 2006 A perfect accompaniment to any Human Biology course Charles Welsh s Human Biology Laboratory Manual boasts 18 lab exercises aimed at educating students on how the human body works Labs within the manual may be taught in any order offering instructors the flexibility

to cater the text to their own needs and course lengths  
Biology Laboratory Manual Darrell S. Vodopich, 1989  
**Experience** Albert Kaskel, 1994-04-19

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