

LABORATORY EXERCISE 6

THE CELL CYCLE

MATERIALS NEEDED

textbook
models of animal mitosis
microscope slides of whitefish mitosis (blastula)
compound microscope

For Demonstration:

microscope slide of human chromosomes from
leukocytes in mitosis
cell immersion objective

The cell cycle consists of the series of changes a cell undergoes from the time it is formed until it reproduces. Interphase, mitosis, cytoplasmic division, and differentiation are stages of a cell cycle. Typically, a newly formed cell grows to a certain size and then divides to form two new cells (*daughter cells*). This reproductive process involves two major steps: (1) division of the cell's nuclear parts, which is called *mitosis* (karyokinesis) and (2) division of the cell's cytoplasm (cytokinesis). Before the cell divides it must synthesize biochemicals and other contents. This period of preparation is called *interphase*. The extensive period of interphase is divided into three phases. The S phase when DNA synthesis occurs is between two gap phases (G_1 and G_2) when cell growth occurs and cytoplasmic organelles duplicate.

PURPOSE OF THE EXERCISE

To review the stages in the cell cycle, and to observe cells in various stages of their life cycles.

LEARNING OBJECTIVES

After completing this exercise, you should be able to

1. describe the cell cycle;
2. identify the stages in the life cycle of a particular cell;
3. arrange into a correct sequence a set of models or drawings of cells in various stages of their life cycles.

PROCEDURE

1. Review a textbook section on the cell cycle.
2. As a review activity, label the various stages of the cell's life cycle represented in figure 6.1 and the structures indicated in figure 6.2.
3. Observe the animal mitosis models and review the major events in a cell's life cycle represented by each of them. Be sure you can arrange these models in correct sequence if their positions are changed. The acronym IPMAT can help you arrange the correct order of phases in the cell cycle. This includes interphase followed by the four phases of mitosis.
4. Complete Part A of Laboratory Report 6.
5. Obtain a slide of the whitefish mitosis (blastula).
 - a. Examine the slide using the high-power objective of a microscope. The tissue on this slide was obtained from a developing embryo (blastula) of a fish, and many of the embryonic cells are undergoing mitosis. Note that the chromosomes of these reproducing cells are darkly stained (fig. 6.3).
 - b. Search the tissue for cells in various stages of reproduction. Note that there are several sections on the slide. If you cannot locate different stages in one section, examine the cells of another section since the stages occur at random.
 - c. Each time you locate a cell in a different stage, sketch it in an appropriate circle in Part B of the laboratory report.



Critical Thinking Application

Which stage (phase) of the cell cycle was the most numerous in the blastula? _____

Explain your answer. _____

Answers For Lab Exercise 7 Cell Cycle

Thomas P. Colville, Joanna M. Bassert



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Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart *Exploring Anatomy Physiology in the Laboratory 3e* *Anatomy and Physiology, Laboratory Manual* Connie Allen, Valerie Harper, 2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it's easy to customize this laboratory manual to best fit your course

Clinical Anatomy and Physiology Laboratory Manual for Veterinary Technicians Thomas P. Colville, Joanna M. Bassert, 2009-01-01 Reinforce the A P principles you've learned in *Clinical Anatomy Physiology for Veterinary Technicians* 2nd Edition with this practical laboratory resource Filled with interactive exercises step by step procedure guidelines and full color photos and illustrations this lab manual is designed to help you understand A P in relation to your clinical responsibilities as a veterinary technician and apply your knowledge in the laboratory setting A comprehensive approach builds on the concepts presented in *Clinical Anatomy Physiology for Veterinary Technicians* 2nd Edition to strengthen your anatomical and physiological knowledge of all major species Engaging clinically oriented activities help you establish proficiency in radiographic identification microscopy and other essential skills Step by step dissection guides familiarize you with the dissection process and ensure clinical accuracy Clinical Application boxes demonstrate the clinical relevance of anatomical and physiological principles and reinforce your understanding Full color photographs and illustrations clarify structure and function A renowned author team lends practical guidance specifically designed for veterinary technicians A detailed glossary provides quick access to hundreds of key terms and definitions *Laboratory Manual for Anatomy and Physiology* Connie Allen, Valerie Harper, 2020-12-10 *Laboratory Manual for Anatomy Physiology* 7th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it's easy to customize this laboratory manual to best fit your course While the *Laboratory Manual for Anatomy and Physiology* is designed to complement the latest 16th edition of *Principles of Anatomy Physiology* it can be used with any two semester A P text

Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications Joy B. Perry, 1992 *Anatomy and Physiology* Jay Marvin

Templin,1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref

Laboratory Manual to Accompany Essentials of Anatomy and Physiology Kevin T. Patton,2004-02 Kevin Patton divides the lab activities typically covered in A P lab into 42 subunits allowing instructors the flexibility to choose the units and sequence that integrates with lecture material Basic content is introduced first and gradually more complex activities are developed Features include procedure check lists coloring exercises boxed hints safety alerts separate lab reports and a full color histology mini reference

40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson,2009 Drawing from the author s own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

Cellular and Molecular Pharmacology Dr. Desh Deepak Pandey,Dr. Rehan Uddin,2025-11-01 M Pharm Pharmacology First Semester According to the syllabus based on Pharmacy Council of India

Workbook and Lab Manual for Sonography - E-Book Reva Arnez Curry,2015-11-06 Curry and Tempkin s Workbook for Sonography Introduction to Normal Structure and Function 4th Edition is the essential reinforcement and review tool for visual information covered in the text This Workbook supports and completes the text by providing an excellent introduction to sonography and preparing you to accurately identify sonographic pathology and abnormalities Each chapter opens with review questions and features drawings from the text with parallel sonograms where appropriate that include leader lines to label structures You fill in the labels to identify structures reinforcing visual and auditory learning from the text You can also refer to the text if you are uncertain or need to review an area Unlabeled line drawings and images from every chapter allow for immediate thorough review of material and let you refer to the text s diagrams and Workbook s appendix for answers Review questions test you on information learned in the text User friendly standardized chapter format means you know exactly where to go for review in each chapter NEW Thorough coverage of the newest U S imaging techniques keeps you informed about the latest developments and prepares you to meet the challenges of the clinical environment NEW Three brand new chapters give you the most up to date information on fetal echocardiography laboratory values and ergonomics NEW 340 added content review questions provide you with extra practice on core content from Curry and Tempkin s textbook NEW Updated sonograms present the best and latest images from state of the art equipment including 3D and 4D images

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The Active Female Jacalyn J. Robert-McComb,Mimi Zumwalt,Maria Fernandez-del-Valle,2023-02-27 Now in a revised and expanded third edition the aims of The Active Female are threefold first to increase the awareness of wellness and fitness issues for active females and their family members second to provide an avenue for medical practitioners allied health professionals health educators providers and certified individuals in sports medicine athletics to gain critical updated knowledge of a field specific to active females and third to introduce the concept of obesity as a growing health concern even for normal weight individuals Part I of the book offers a foundation for understanding the interrelationships between female physiology body image and other psychological issues the female reproductive cycle and the musculoskeletal anatomy and physiology of females that makes their health risks and concerns unique In Part II the concepts of eating disorders from a global perspective and the health disparities and inequities in women s health are discussed in detail Part III describes the prevention and management of common musculoskeletal injuries in active females across the lifespan including the management of osteoporosis Appropriate exercise and nutritional guidelines and recommendations for active females are discussed in detail in Parts IV and V Part VI is a new addition to the book and highlights the obesity epidemic and co morbid diseases associated with obesity even for normal weight obese individuals Each chapter is bookended by clear learning objectives and review questions for additional pedagogical appeal An invaluable addition to the literature The Active Female Health Issues throughout the Lifespan 3e will be of great interest to all clinicians and allied health care professionals concerned with women s health and related issues from sports medicine and family practitioners to endocrinologists gynecologists and orthopedic surgeons

Concepts in Biology Eldon Enger,Frederick C. Ross,2002-06 The exercises comprising this laboratory manual are intended to supplement the text Concepts in Biology but they can be used with any introductory level biology text Laboratory exercises begin with a list of safety issues that students need to be aware of These items identify caustic chemicals equipment that needs special care or handling and health or safety hazards a careless student may encounter We suggest that students use the laboratory manual as a workbook and record data and answers to questions in the spaces provided The laboratory gives students the opportunity to get involved in biology They go beyond reading and studying and actually enter into the process of doing science *Cumulated Index Medicus* ,1993

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a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

Nuclear Science Abstracts ,1967 Biology of Plants Henry L. Dean,Robert W. Schuhmacher,1987 **Index Medicus**
,2001

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