

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

Daniel D. Chiras



Answers For Lab Exercise 7 Cell Cycle:

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

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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 Biology of Plants Henry L. Dean, Robert W. Schuhmacher, 1987 Index Medicus, 2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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 **Biology** Warren D. Dolphin, 1991

The American Biology Teacher, 2001 Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections Patricia J. Donnelly, George A. Wistreich, 1993 Belk Laboratory Manual Virginia Borden, Virginia Borden Maier, Colleen Belk, 2004-04 **Biology** Daniel D. Chiras, 1993 **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 *Laboratory Manual for Anatomy and Physiology* Patricia J. Donnelly, George A. Wistreich, 1993 **Molecular Biology of the Cell**, 2000 **Modules** McDougal Littell Incorporated, 2005

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web the relative electronegativities of the bonded atoms is h c cl and so the bond moments all point toward the cl end of the molecule and sum to yield a considerable dipole moment the molecules are relatively polar for molecules of high symmetry such as BF_3 trigonal planar CH_4 tetrahedral PF_5 trigonal bipyramidal and SF_6

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