

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

Joy B. Perry



Answers For Lab Exercise 7 Cell Cycle:

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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 Anatomy and Physiology Connie Allen,Valerie Harper,2016-12-21 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 **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 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 **Biology** Warren D. Dolphin,1991 **The American Biology Teacher** ,2001 *Ie Pr/Labs Phys Fit W/Log* Werner W. K. Hoeger,Sharon A. Hoeger,2001-03 *Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections* Patricia J. Donnelly,George A. Wistreich,1993 **Principles and Labs for Fitness and Wellness** Werner W. K. Hoeger,Sharon A. Hoeger,2004 PRINCIPLES AND LABS FOR PHYSICAL FITNESS AND WELLNESS SEVENTH EDITION guides students through the development of an attainable and enjoyable fitness and wellness program With over 150 pieces of art to make this text truly engaging it also gives students the motivation and techniques they need to apply their learning experiences and knowledge received from their fitness and wellness course Perforated laboratory worksheets found at the end of each chapter allows readers to analyze and understand the concepts that they have learned and move to the next state of behavioral modification The emphasis is on teaching individuals how to take control of their personal health and lifestyle habits so they can make a constant and deliberate effort to stay healthy and realize their highest potentials for well being In addition to the strength of the text PRINCIPLES AND LABS FOR PHYSICAL FITNESS AND WELLNESS comes with a wide range of teaching and learning resources unlike any other to support your

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