

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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Table of Contents Answers For Lab Exercise 7 Cell Cycle

1. Understanding the eBook Answers For Lab Exercise 7 Cell Cycle
 - The Rise of Digital Reading Answers For Lab Exercise 7 Cell Cycle
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Lab Exercise 7 Cell Cycle
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Lab Exercise 7 Cell Cycle
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Lab Exercise 7 Cell Cycle
 - Personalized Recommendations
 - Answers For Lab Exercise 7 Cell Cycle User Reviews and Ratings
 - Answers For Lab Exercise 7 Cell Cycle and Bestseller Lists

5. Accessing Answers For Lab Exercise 7 Cell Cycle Free and Paid eBooks
 - Answers For Lab Exercise 7 Cell Cycle Public Domain eBooks
 - Answers For Lab Exercise 7 Cell Cycle eBook Subscription Services
 - Answers For Lab Exercise 7 Cell Cycle Budget-Friendly Options
6. Navigating Answers For Lab Exercise 7 Cell Cycle eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Lab Exercise 7 Cell Cycle Compatibility with Devices
 - Answers For Lab Exercise 7 Cell Cycle Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Lab Exercise 7 Cell Cycle
 - Highlighting and Note-Taking Answers For Lab Exercise 7 Cell Cycle
 - Interactive Elements Answers For Lab Exercise 7 Cell Cycle
8. Staying Engaged with Answers For Lab Exercise 7 Cell Cycle
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Lab Exercise 7 Cell Cycle
9. Balancing eBooks and Physical Books Answers For Lab Exercise 7 Cell Cycle
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Lab Exercise 7 Cell Cycle
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Lab Exercise 7 Cell Cycle
 - Setting Reading Goals Answers For Lab Exercise 7 Cell Cycle
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Lab Exercise 7 Cell Cycle
 - Fact-Checking eBook Content of Answers For Lab Exercise 7 Cell Cycle
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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