

CHAPTER 10: CELL REPRODUCTION

Section 10.1: Cell Division

Most cells pass through a cycle, which repeats again and again. This cycle is called the cell cycle.

The cell cycle is a continuous process that is divided into four phases: prophase, metaphase, anaphase, and telophase. Prophase is the first phase of mitosis. It begins with the condensing and organizing of DNA into two distinct chromosomes that are bound together by proteins. During the G₁ phase, each chromosome is copied. The new copies of each chromosome, called sister chromatids, stay attached to each other by the centromere. As the time for metaphase and the next two phases approaches, the centromeres and kinetochores of each sister chromatid appear near the disappearing nucleolus. The centromeres move toward opposite poles of the cell and spindle fibers develop from the centromeres to prepare for anaphase.

Anaphase is characterized by the separation of sister chromatids. Spindle fibers attach to the centromeres to the center of the dividing cell.

During **anaphase**, the chromatids of each chromosome separate at the centromere and slowly move toward opposite poles of the dividing cell. After the chromatids separate, they are considered to be individual chromosomes.

Telophase marks the end of mitosis. After the chromosomes reach opposite ends of the cell, the spindle fibers disappear and the chromosomes return to their highly coiled chromatin state. A nuclear envelope forms around each set of chromosomes, and a nucleolus forms in each of the newly forming cells.

Each new organism starts its growth or begins to develop at this time. This is called embryonic development. Embryonic development is the period of growth and development.

Section 10.2: Prokaryotic Cell Division

In this section, we will study the processes of binary fission and conjugation. Binary fission is the process of asexual reproduction.

- a. prophase
 - b. metaphase
 - c. anaphase
 - d. telophase
1. Chromatids of each chromosome separate at the centromere.

Section 8 2 Cell Division Answers

Mr. Rohit Manglik

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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temporally How is cell size controlled and linked to the rate of mass growth What role plays physical organization of the chromosomes in their segregation and in regulation of cell division The publications covering these questions are divided into three topical areas 1 Cell Cycle Regulation 2 Growth and Division and 3 Nucleoid Structure and Replication New ideas and techniques put forward in these articles bring us closer to understand these fundamental cellular processes but the quest to resolve them is far from being complete Plans for the next edition are under way along with further meetings and workshops e g an EMBO Workshop on Bacterial cell biophysics DNA replication growth division size and shape in Ein Gedi Israel May 2020 We hope that via such interdisciplinary exchange of ideas we will come closer to answering the above mentioned complex and multifaceted questions

Section 8 2 Cell Division Answers Book Review: Unveiling the Power of Words

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