

Chapter 9: Cellular Reproduction

9.1 Cellular Growth

Objectives: Explain why cells are relatively small. Summarize the primary stages of the cell cycle. Describe the stages of interphase.

A. Cell _____ Limitations

1. As the cell grows, the volume increases much quicker than the surface area. This makes it hard for the cell to keep up. Better to stay small and keep the volume to surface area ratio lower.
2. As the cell gets larger, it's harder to move things around inside the cell too.
3. As the cell gets larger, the internal cell communications gets harder.

B. The Cell _____ : process of growing and dividing

1. 3 main stages

a. _____ : longest stage; the cell grows, carries out cellular functions, and replicates its DNA (three stages of its own)

b. _____ : division of the nucleus and nucleus material (four stages of its own)

c. _____ : division of the cytoplasm

* A cell that has gone through mitosis but not cytokinesis would be one cell with two nuclei! *

2. Interphase

a. _____ : Gap 1: growth 1 phase, preparing to replicate the DNA

b. _____ : Synthesis: synthesis of the DNA

* chromosomes: structures that contain the genetic material that is passed from generation to generation of cells. *

* chromatin: the relaxed form of DNA in the cell's nucleus. *

c. _____ : Gap 2: cell prepares for division of its nucleus, protein synthesis for division

3. Mitosis & Cytokinesis

a. Mitosis: division of the _____

b. Cytokinesis: division of the _____

4. Prokaryotic cell division

a. Binary fission: because they do not have a nucleus or membrane bound organelles, it's much simpler.

9.2 Mitosis and Cytokinesis

Objectives: Describe the events of each stage of mitosis. Explain the process of cytokinesis.

A. Stages of Mitosis

1. _____ : first phase; longest phase; cell's chromatin tightens into chromosomes (duplicated!); nuclear membrane disintegrates; nucleolus disappears; spindle apparatus begins to form between the poles

* Sister chromatids: structures that contain identical copies of DNA. *

* Centromere: center of the chromosome where the chromatids are attached. *

* Spindle apparatus: spindle fibers, centrioles, and aster fibers that move and organize the chromosomes before cell division.

2. _____ : second stage of mitosis; sister chromatids are pulled by motor proteins along the spindle apparatus toward the equator of the cell; one of the shortest stages; when completed successfully it ensures that the new cells have accurate copies of the chromosomes

3. _____ : third stage of mitosis; chromatids are pulled apart in this stage; the microtubules of the spindle apparatus begin to shorten; the sister chromatids separate into two identical chromosomes; chromosomes move towards the poles of the cell.

Section 9 Cellular Reproduction Study Guide Answers

Zhe Xu



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