

Chapter 12: The Cell Cycle

Overview:

1. What are the three key roles of cell division? State each role, and give an example.

Key Role	Example
•In preparation for cell division, DNA is replicated and the chromosomes condense	Cell division preparation
•Each duplicated chromosome has two sister chromatids, which separate during cell division	Separate during cell division
•The centromere is the narrow "waist" of the duplicated chromosome, where the two chromatids are most closely attached	Travel along kinetochore microtubules

2. What is meant by the *cell cycle*?

•The continuity of life is based on the reproduction of cells, or cell division

Concept 12.1 Cell division results in genetically identical daughter cells

3. What is the meaning of *genome*?

•All the DNA in a cell constitutes the cell's genome

Compare your genome to that of a prokaryotic cell.

•A genome can consist of a single DNA molecule (common in prokaryotic cells) or a number of DNA molecules (common in eukaryotic cells)

4. How many chromosomes are in a human *somatic cell*?

•Somatic cells (nonreproductive cells) have two sets of chromosomes

5. Name two types of somatic cells in your body. Brain and liver

6. What is a *gamete*?

•Gametes (reproductive cells: sperm and eggs) have half as many chromosomes as somatic cells

7. Name the two types of gametes.

•Sperm and eggs

8. How many chromosomes in a human gamete? 23

9. Define *chromatin*.

•Eukaryotic chromosomes consist of chromatin, a complex of DNA and protein that condenses during cell division

10. Think carefully, now. How many DNA molecules are in each of your somatic cells?

•In preparation for cell division, DNA is replicated and the chromosomes condense
•Each duplicated chromosome has two sister chromatids, which separate during cell division, but a single DNA MOLECULE

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