

Chromosomes

For Questions 1-5, complete each statement by writing the correct word or words.

1. Cells carry genetic information in packages of DNA called chromosomes.
2. Each chromosome has a single continuous strand of DNA.
3. In eukaryotes, cells have genetic information packaged in DNA with a single coiled strand called chromatin.
4. The number of chromosomes in a cell is called the karyotype.
5. Chromosomes carry genetic information and are found in all cells.

The Cell Cycle

6. What is the order of the stages of cell division that occur in the prokaryotic cell cycle?
cell division in prokaryotes is called binary fission.
7. What happens during mitosis?
The cell grows, copies its DNA, and separates the cell contents.
8. Complete the cell cycle diagram by writing the correct name of each stage of cell division.



9. In eukaryotic cells, what happens in the G₁ phase that allows DNA to be copied?
In the G₁ phase, the cell grows. In the S phase, the cell gets ready for cell division.
10. In eukaryotic cells, what are the two main stages of cell division?
Mitosis and cytokinesis are the two main stages of cell division.

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