

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 and a single membrane-bound nucleus together form eukaryotic cells. Animals.
4. The number of chromosomes in each cell is constant in each species.
5. Chromosomes carry genetic information responsible for all traits.

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 chromosomes.
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? The cell grows and the DNA is copied.
10. In the S phase, the cell grows. In the G₂ phase, the cell gets ready for mitosis.
11. In eukaryotic cells, what are the two main stages of cell division?
Mitosis and cytokinesis are the two main stages of cell division.

And Study Guide Answer Keys Vertebrates

Tao Wei



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