

The Cell Cycle

Review

Name KEY
Date _____

Multiple Choices

Circle the letter of the correct choice.

- Which cells undergo cell division?
(a) prokaryotic cells only
 (b) eukaryotic cells only
(c) cancer cells only
(d) both prokaryotic and eukaryotic cells
- Cell division in eukaryotic cells is a complex process because of
 (a) the multiple chromosomes.
(b) the nucleus.
(c) the many organelles.
(d) all of the above
- Most routine metabolic processes occur during which phase of the cell cycle?
 (a) growth phase 1
(b) the S phase
(c) growth phase 2
(d) the M phase
- The correct order of the eukaryotic cell cycle is
(a) $G1 \rightarrow G2 \rightarrow S \rightarrow M$.
(b) $S \rightarrow G1 \rightarrow G2 \rightarrow M$.
(c) $M \rightarrow G1 \rightarrow S \rightarrow G2$.
 (d) $G1 \rightarrow S \rightarrow G2 \rightarrow M$.

Match Vocabulary

Match the vocabulary word with the proper definition.

Definitions

- J 1. the process in which one cell divides to form two daughter cells
 F 2. the process in which all of the nuclear DNA is copied
 C 3. a repeating series of events that describes the life of a cell
 I 4. phase of the cell cycle that includes the G1, S, and G2 phases
 A 5. the process by which bacterial cells divide
 I 6. phase of the cell cycle in which the cell's DNA is copied
 L 7. occurs when the cell cycle is no longer regulated
 G 8. phase of the cell cycle in which the cell grows rapidly and performs many metabolic processes
 I 9. phase of the cell cycle in which the cell makes final preparations to divide.
 J 10. division of the cytoplasm, resulting in two daughter cells
 L 11. an abnormal mass of cells
 J 12. the process in which the nucleus of the cell divides

Terms

- | | | | |
|-------------------|--------------------|-------------------|--------------------|
| a. binary fission | d. cell division | g. growth Phase 1 | j. mitosis |
| b. cancer | e. cytokinesis | h. growth phase 2 | k. synthesis phase |
| c. cell cycle | f. DNA replication | i. interphase | l. tumor |