

Cell Cycle and Mitosis Study Guide

1. List 2 reasons why cells divide? **Reproduce and repair**
2. Describe the chromosome structure of a bacteria. **Circular**
3. The region of a chromosome where two sister chromatids are held together is called a **centromere**.
4. Describe the structure of a chromosome.
5. In order to fit within a cell, DNA becomes more compact by wrapping around **proteins called histones**.
6. In a bacterium, what type of cell division takes place? What is the result? **Binary fission, results in two identical cells**
7. The phase of the cell cycle that occupies most of an average cell's life is **interphase**.
8. What phase does the cell enter after cytokinesis is completed? **interphase**
9. Which of the following shows the correct sequence of the cell cycle?
 - A. Cytokinesis → mitosis → $G_1 \rightarrow S \rightarrow G_2$
 - B. $S \rightarrow G_1 \rightarrow G_2 \rightarrow$ mitosis → cytokinesis
 - C. **$G_1 \rightarrow S \rightarrow G_2 \rightarrow$ mitosis → cytokinesis**
 - D. Mitosis → $G_1 \rightarrow S \rightarrow G_2 \rightarrow$ cytokinesis
10. Cells that are not dividing remain in which phase? **interphase**
11. The synthesis (S) phase is characterized by what process? **Replication of DNA**
12. The first three steps of the cell cycle are collectively known as **interphase**.
13. Mitosis is the process by which **cells divide**.
14. The phase of mitosis that is characterized by the arrangement of all chromosomes along the equator/middle of the cell is called **metaphase**.

Use the picture below to answer questions 17-19



15. The cell in picture 1 is in what phase of mitosis? **anaphase**.
16. The cell in picture 2 is in what phase of mitosis? **prophase**.
17. The cell in picture 5 is in what phase of mitosis? **telophase**.
18. Using the numbers that correspond with the pictures above put the events of mitosis in order? **2,4,3,1,5**
19. As a result of mitosis, each of the two new cells produced from the parent cell during cytokinesis **are identical to the parent cell**.
20. Cytokinesis in plant cells involves the formation of **cell plate**, while in animal cells a **cleavage furrow** forms.
21. What aids the chromosomes to line up in the middle (equator) of the cell? **Spindle fibers**.
22. What organelle do animal cells have that plant cells do not have when undergoing mitosis? **centrioles**
23. Which cells undergo binary fission as their form of replication? **bacteria**
24. The cells that undergo asexual reproduction produce cells that **are identical to the parent cells**

Study Guide Mitosis And Cell Cycle Regulation

Arturo Cuomo



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of an inducible structural gene during the cell cycle of the green alga *Chlorella*. The chapters provide evidence for a model of positive and negative oscillatory control of inducible gene expression. An analysis of the expression of cytoplasmic genes as a function of the cell cycle using pedigrees of a large number of individual yeast cells is also included. This book will appeal to a wide variety of life scientists and to molecular cellular and developmental biologists. **Study Guide for The Human Body in Health and Illness - E-Book** Barbara Herlihy, 2013-12-27

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embryonic stem cells human mesenchymal stem cells germ cell derived pluripotent stem cells induced pluripotent stem cells human umbilical cord blood derived stem cells breast tumor stem cells and hematopoietic stem cells Because of the potential of human embryonic stem cells to produce unlimited quantities of any human cell type considerable focus is placed on their therapeutic potential Because of their pluripotency these cells have been used in various applications such as tissue engineering regenerative medicine pharmacological and toxicological studies and fundamental studies of cell differentiation The formation of embryoid bodies which are three dimensional aggregates of embryonic stem cells is explained as this is the first step in cell differentiation Such embryoid body culture has been widely used as a trigger for the in vitro differentiation of embryonic stem cells The basic capacity of self renewal of human embryogenic stem cells is explained The role of TGF beta in the propagation of human embryonic stem cells is discussed The differentiation of human embryonic stem cells into neurons hepatocytes cardiomyocytes and retinal cells is fully explained Donor policies for hematopoietic stem cells are also explained

Cell Cycle Control Anna Castro, Benjamin Lacroix, 2024-02-23 This detailed volume collects techniques to study the highly regulated cell cycle process Beginning with chapters investigating these processes and assessing how cells respond when these complicated pathways are simplified by using synthetic biology and in vitro reconstitutions the book continues by exploring how cells sense and respond to environmental conditions different model systems and cellular types used to visualize cellular architecture during cell division as well as innovative single cell microscopy techniques to highlight the heterogeneity of the cell population with respect to cell cycle progression Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical *Cell Cycle Control Methods and Protocols* serves as an ideal guide for researchers attempting to elucidate this vital area of cell biology

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