

10.3 Regulating the Cell Cycle

Lesson Objectives

-  Describe how the cell cycle is regulated.
-  Explain how cancer cells are different from other cells.

Lesson Summary

Controls on Cell Division Dozens of proteins regulate the cell cycle.

- ▶ **Cyclins** are proteins that regulate the timing of the cell cycle in eukaryotic cells.
- ▶ Regulatory proteins work both inside and outside of the cell.
 - Internal regulators allow the cell cycle to proceed when certain events have occurred within a cell.
 - External regulators called **growth factors** stimulate the cell cycle. Other external regulators cause the cell cycle to slow down or stop.
- ▶ **Apoptosis** is programmed cell death that plays a key role in the development of tissues and organs.

Cancer: Uncontrolled Cell Growth **Cancer** is a disorder in which cells divide uncontrollably, forming a mass of cells called a **tumor**.

- ▶ Cancers are caused by defects in genes that regulate cell growth.
- ▶ Treatments for cancer include:
 - removal of cancerous tumors.
 - radiation, which interferes with the copying of DNA in multiplying cancer cells.
 - chemotherapy, which is the use of chemicals to kill cancer cells.

Controls on Cell Division

For Questions 1–6, write True if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. Cells tend to continue dividing when they come into contact with other cells.
- _____ 2. Cell division speeds up when the healing process nears completion.
- _____ 3. Proteins called growth factors regulate the timing of the cell cycle in eukaryotic cells.
- _____ 4. If chromosomes have not attached to spindle fibers during metaphase, an internal regulatory protein will prevent the cell from entering anaphase.
- _____ 5. Growth factors are external regulatory proteins that slow down the cell cycle.
- _____ 6. Once apoptosis is triggered, a cell proceeds to self-destruct.

Regulating The Cell Cycle Worksheet Answers

National Academy of Sciences (U.S.)



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Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 DNA Replication Arthur Kornberg, Tania A. Baker, 2005-06-24 DNA Replication second edition a classic of modern science is now back in print in a paperback edition Kornberg and Baker's insightful coverage of DNA replication and related cellular processes have made this the standard reference in the field **NEET Foundation Handbook of Cell Biology** Chandan Sengupta, This hand book is meant for students having a plan for preparing Pre Medical Board Examinations and also a plan for optng competitive examinations like NEET BDS and other such entrance examinations There will be a series of such publications which are advanced for covering different content areas of the study These are merely a reparatory study meant primarily for equipping an individual for the forthcoming challenges Contents are designed on the basis of the recommendations made by the Curriculum Framework Proposal of NCERT for Students aspiring for National Entrance Test meant for seeking admission in Under Graduate Medical Institutions There are two such volume for clearing the fundamental concepts of Science related doubts This book has been published with all reasonable efforts taken to make the material error free after the consent of the author No part of this book shall be used reproduced in any manner whatsoever without written permission from the author except in the case of brief quotations embodied in critical articles and reviews This workbook is meant for students having eagerness for improving in later course of study in the field of science and technology It will also expose an individual to some higher challenges of studies **AP GRAMA SACHIVALAYAM Exam PDF-WARD PLANNING & REGULATION SECRETARY (GRADE-II) EXAM EBOOK-PDF** Chandresh Agrawal, nandini books, 2024-07-05 SGN The Ebook AP GRAMA SACHIVALAYAM WARD PLANNING REGULATION SECRETARY GRADE II EXAM Covers All Sections Of The Exam

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bioprocess kinetics from simple concepts to complex metabolic pathways Incorporates sustainability concepts into the various bioprocesses **Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.),2002 *Addison-Wesley Science Insights* ,1996 *Science Insights* ,1999 Financial Accounting Kenneth H. Johnson,1991 *Publications of the National Bureau of Standards, 1979 Catalog* United States. National Bureau of Standards,1980 Holt Science and Technology Holt Rinehart & Winston,2004-02 **Science** John Michels (Journalist),2003 A weekly record of scientific progress *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Accounting Fundamentals for Health Care Management** Steven A. Finkler,David M. Ward,Thad Calabrese,2018-01-29 Accounting Fundamentals for Health Care Management is ideal for an introductory course in financial accounting in both undergraduate and graduate programs With a focus on basic accounting in health care management this essential book contains the vocabulary of and an introduction to the tools and concepts employed by finance officers Students will learn how to assess financial information ask the appropriate questions and understand the jargon laden answers **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02

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