

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

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Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **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 sa 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 twn 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 **DNA Replication** Arthur Kornberg, Tania A. Baker, 2005-06-24 DNA Replication second edition a classic of modernscience is now back in print in a paperback edition Kornberg and Baker sinsightful coverage of DNA replication and related cellular processes have madethis the standard reference in the field *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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theory of 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 **Science Insights** ,1999 *Addison-Wesley Science Insights* ,1996 *Holt Science and Technology* Holt Rinehart & Winston,2004-02 **Publications of the National Bureau of Standards, 1979 Catalog** United States. National Bureau of Standards,1980 *Science* John Michels (Journalist),2003 A weekly record of scientific progress **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 *Stand-alone Solar Electric Systems* Mark Hankins,2010-09-23 One of the best ways to get power to remote off grid locations whether in developed or developing countries is through the use of solar electric systems This practical guide describes how to plan design and install solar electric systems in a manner that is hands on graphic and technically complete Highly illustrated chapters cover solar energy basics components of solar electric systems modules batteries regulators inverters and appliances installation practice on planning and servicing systems water pumping refrigeration village electrification This is the must have guide for electric technicians and designers development workers and anyone who wants to install their own off grid system Accountancy ,1987 **Popular Science** ,1945-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better Current Index to Journals in Education ,1992 **Bibliography of Agriculture with Subject Index** ,1995 Bibliography of Agriculture ,1995 **Effect of Oxidative Stress on Cell Cycle Regulation** Cristina Martínez Muñoz,2002

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