

## 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.

# 3 Regulating The Cell Cycle Answer Key

**Jianjun Gao**



### 3 Regulating The Cell Cycle Answer Key:

*Calcium Regulation of Cellular Function*, 2000-04-01 Volume 30 examines the prominent role of calcium as an intracellular second messenger. Leading investigators review a wide variety of studies on how calcium enters and moves through cells, how it interacts with its many binding proteins, and how calcium and its intracellular receptor calmodulin control vital cellular processes. Coverage includes a detailed analysis of the mechanisms by which calcium bound to calmodulin regulates contractile proteins in smooth muscle cells. Close attention is given to the roles of calcium and calmodulin-dependent protein kinases and phosphatases in synaptic signal transduction, protein synthesis, gene expression, programmed cell death, activation of T lymphocytes, and control of cell division cycles. Other chapters discuss studies using genetically manipulable nonmammalian organisms to further probe the functions of calcium and calmodulin. MicroRNA in Regenerative Medicine Chandan K. Sen, 2023-05-08. Regulating virtually all biological processes, the genome's 2,654 newly discovered variants of mature microRNAs (short ribonucleic acid molecules) found in eukaryotic cells hold a key role in the body's toolkit of regenerative and reparative capacities. Identifying how to activate and deliver these specialist molecules may aid in the repair and regeneration of major tissue and organ damage in future therapies. In *MicroRNA and Regenerative Medicine*, Second Edition, over 50 leading experts address foundational and emerging topics in the field. Concisely summarizing and evaluating key findings from new research, and their translational application, contributors examine current and future significance of clinical research in the miRNA area. Coverage encompasses all major aspects of fundamental stem cell and developmental biology, including the uses of miRNA in cell and tissue plasticity, developmental biology, tissue repair, and regeneration. In particular, contributors provide focused coverage of methodologies for regenerative intervention and tissue engineering. Topics new to this edition include proteomic changes during tissue repair and regeneration, horizontal transfer of miRNAs in tissue regeneration, tissue stemness, peripheral nerve regeneration, miRNA as biomarkers, microRNA in pregnancy and embryo development, exogenous and diet-derived microRNA in tissue development, ocular microRNA, mitochondrial microRNA, sensory hair cell death and regeneration, and microRNA in senescence. Features chapter contributions from international leaders in the field, covering the spectrum from bench to bedside. Includes short applied chapters offering focused discussion and practical examples. Incorporates multi-color text layout with more than 150 color figures to illustrate important findings. **Biology** Kenneth Raymond Miller, Nancy Montgomery, Joseph S. Levine, 2008. *Journal of Cell Science*, 2003. Dermatology E-Book Jean L. Bolognia, Joseph L. Jorizzo, Julie V. Schaffer, 2012-06-08. *Dermatology*, edited by world authorities Jean L. Bolognia MD, Joseph L. Jorizzo MD, and Julie V. Schaffer MD, is an all-encompassing medical reference book that puts the latest practices in dermatologic diagnosis and treatment at your fingertips. It delivers more comprehensive coverage of basic science, clinical practice, pediatric dermatology, and dermatologic surgery than you'll find in any other source. Whether you're a resident or an experienced practitioner, you'll have the in-depth

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