

CHAPTER 17

STUDY GUIDE

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17.1 Cell Growth, Division, and Reproduction

The larger a cell becomes, the more demands the cell places on its DNA. In addition, a larger cell is less efficient in moving nutrients and waste materials across the cell membrane. The process of cell division solves this problem.

Asexual reproduction is the production of genetically identical offspring from a single parent. Offspring produced by sexual reproduction inherit some of their genetic information from each parent. Sexual reproduction produces genetic diversity and may help a species to survive in a changing environment.

- cell division
- asexual reproduction
- sexual reproduction

Ratio of Surface Area to Volume in Cells



✓ CCC Cause and Effect What changes occur to the ratio of surface area to volume as a cell grows?

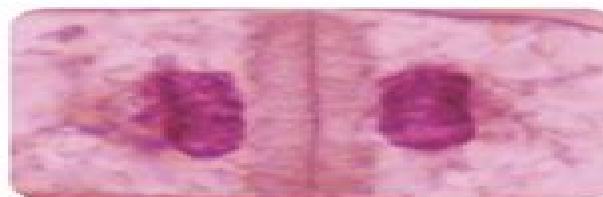
17.2 The Process of Cell Division

Genetic information is bundled into packages of DNA known as chromosomes. Prokaryotic cells have a single circular chromosome. Eukaryotic cells have multiple chromosomes enclosed in the nucleus.

Cell division in prokaryotes is a form of asexual reproduction known as binary fission. The eukaryotic cell cycle consists of four stages: cell growth, DNA replication, preparing for cell division, and cell division.

Mitosis is the division of the cell nucleus. During mitosis, chromosomes duplicate and condense into sister chromatids, which line up and then separate. In the final phase of mitosis, the separated chromosomes cluster and form duplicate nuclei. After mitosis, cytoplasm divides in the process known as cytokinesis, forming two daughter cells.

- | | |
|---------------|--------------|
| • chromosome | • chromatid |
| • chromatin | • centromere |
| • cell cycle | • centriole |
| • interphase | • metaphase |
| • mitosis | • anaphase |
| • cytokinesis | • telophase |
| • prophase | |



✓ Classify What type of cell is undergoing cytokinesis in the photo? How do you know?

Pearson Biology Study Guide Cell Growth Answers

Padhraic Smyth



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Biology Kenneth Raymond Miller, Nancy Montgomery, Joseph S. Levine, 2008 *Subject Guide to Books in Print* ,2001
The Complexity Paradox Kenneth L. Mossman, 2014 The Complexity Paradox proposes inventive interdisciplinary approaches to maintaining health and managing and preventing disease It examines life from the perspective of complexity which acknowledges the limits of what we can know while helping us to understand life processes in new and extraordinary ways **Life Science Data Mining** Chung-sheng Li, Stephen Tin Chi Wong, 2006-12-29 This timely book identifies and highlights the latest data mining paradigms to analyze combine integrate model and simulate vast amounts of heterogeneous multi modal multi scale data for emerging real world applications in life science The cutting edge topics presented include bio surveillance disease outbreak detection high throughput bioimaging drug screening predictive toxicology biosensors and the integration of macro scale bio surveillance and environmental data with micro scale biological data for personalized medicine This collection of works from leading researchers in the field offers readers an exceptional start in these areas
Fetal/Embryonic Hematopoietic Progenitors and Their Impact on Adult Diseases Silvia Brunelli, Antonella Ellena Ronchi, Charlotta Boiers, Emanuele Azzoni, 2021-10-01 **Study Guide** Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities *Biology* Joseph S. Levine, Kenneth R. Miller, 1998 **Investing Biology** Pearson Education, 2002-11 **Man** ,1957 **Journal of the National Cancer Institute** ,1991 Each issue is packed with extensive news about important cancer related science policy politics and people Plus there are editorials and reviews by experts in the field book reviews and commentary on timely topics American Book Publishing Record ,2005 The Journal of NIH Research ,1995 **Whitaker's Books in Print** ,1998 **Growth** ,1987 Vols 5 6 11 13 have supplement Symposium on development and growth **Forthcoming Books** Rose Arny, 2003-04 **Canadian Journal of Biochemistry and Cell Biology** ,1984 **Current Cancer Research on Biochemistry and Physical Chemistry of Proteins, Amino Acids, and Polyamines Related to Cancer Biology** Current Cancer Research Project Analysis Center (U.S.), 1977 JNCL, Journal of the National Cancer Institute National Cancer Institute (U.S.), 1983 *The School Science Review* ,2005 **The United States Catalog** ,1912

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