

1. Cancer/ Cell cycle (p.224)

a. Asexual Cellular Reproduction in Prokaryotes and Eukaryotes. Production of genetically identical cells

i. Growth controls in Eukaryotic cells

1. **Cell cycle checkpoints:** A checkpoint is one of several points in the eukaryotic cell cycle at which the progression of a cell to the next stage in the cycle can be halted until conditions are favorable (e.g. the DNA is repaired). These checkpoints occur near the end of G₁, at the G₂/M transition, and during metaphase.
2. **DNA damage Assessment:** A normal gene that, through mutation, can be converted to a cancer-causing gene.
3. **Density-dependent inhibition:** A phenomenon in which crowded cells stop dividing
4. **Anchorage dependence:** One characteristic that distinguishes cancerous cells from normal body cells is their failure to exhibit anchorage dependence; they grow whether or not they are in contact with a suitable surface

ii. Loss of growth control and cancer

1. **Proto-oncogenes:** a normal gene that, through mutation, can be converted to a cancer-causing gene.
2. **Tumor suppressor genes:** A gene whose product inhibits cell division, thereby preventing uncontrolled cell growth. A mutation that deactivates a tumor suppressor gene may lead to cancer.

b. Meiosis

- i. **Sexual reproduction:** the creation of genetically unique offspring by the fusion of two haploid sex cells (**gametes**), forming a diploid zygote.
 1. Focus on the generation of recombinant DNA and the production of genetically unique gametes.
- ii. **Nondisjunction:** An incident from meiosis or mitosis in which a pair of homologous chromosomes or a pair of sister chromatids fail to separate at anaphase.

c. Compare and contrast sexual vs asexual reproduction

- i. **Asexual reproduction** generates offspring that are genetically identical to a single parent.
- ii. In **Sexual reproduction** two parents contribute genetic

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Table of Contents Biology 111 Study Guide

1. Understanding the eBook Biology 111 Study Guide
 - The Rise of Digital Reading Biology 111 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology 111 Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology 111 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 111 Study Guide
 - Personalized Recommendations
 - Biology 111 Study Guide User Reviews and Ratings
 - Biology 111 Study Guide and Bestseller Lists
5. Accessing Biology 111 Study Guide Free and Paid eBooks
 - Biology 111 Study Guide Public Domain eBooks
 - Biology 111 Study Guide eBook Subscription Services
 - Biology 111 Study Guide Budget-Friendly Options
6. Navigating Biology 111 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology 111 Study Guide Compatibility with Devices
 - Biology 111 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology 111 Study Guide
 - Highlighting and Note-Taking Biology 111 Study Guide
 - Interactive Elements Biology 111 Study Guide
8. Staying Engaged with Biology 111 Study Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology 111 Study Guide
9. Balancing eBooks and Physical Books Biology 111 Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology 111 Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology 111 Study Guide
- Setting Reading Goals Biology 111 Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology 111 Study Guide
- Fact-Checking eBook Content of Biology 111 Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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