

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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