
Molecular Biology
Chapter 8.1 – 8.10: Cellular Basis of Reproduction and Inheritance
Chapter 10.2 – 10.5: DNA
Review Questions

8.1 Like begets like

1. Compare and contrast asexual with sexual reproduction.
2. What are chromosomes?

8.2 Cells arise from preexisting cells

1. What are the two main roles that cell divisions plays in perpetuating the life cycle multicellular organisms?

8.3 Prokaryotes reproduce by binary fission

1. What is binary fission and why is it considered to be asexual reproduction?

8.4 Chromosomes

1. How do human cells differ from bacterium cells?
2. What is the relationship between chromosome and chromatin?
3. What is the role of proteins in chromosomes?
4. Draw a chromosome that was replicated and label the *sister chromatid* and *centromere*. Also define each term.

8.5 The cell cycle

1. What are the two main phases of the cell cycle and how are these two phases subdivided?
2. Explain what happens during the two major phases and the subphases in each phase during the cell cycle.

8.6 Mitosis

1. What occurs during interphase?
2. What are the 4 phases of mitosis? What occurs during each phase? Refer to handout questions. Include a drawing of each phase using a cell that has 6 chromosomes.

8.7 Cytokinesis

1. How does cytokinesis differ between animal and plant cells?

8.8 Anchorage, cell density, chemical growth factors

1. Why is timing of cell division so important?
2. What are two factors that affect the timing of cell division? Identify and describe each factor **and** give an example of how/when this occurs in animal body cells.
3. What causes density-dependent inhibition?

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