

Chapter 8

Microbial Genetics

Chapter Summary and Essay Questions

This chapter on microbial genetics includes some of the more fascinating concepts associated with microorganisms. It covers prokaryotic DNA structure and replication, plasmids, and protein synthesis. The nature and types of mutations are covered, and how mutants can be identified is described. When you have completed the chapter, you will be able to answer the following essay questions:

- a. Explain how DNA is arranged in a **chromosome** and assess the importance of this arrangement.
- b. Describe the structural characteristics of **plasmids** and explain the roles they play in microbial cells.
- c. Support this statement: "DNA replication is **semiconservative**."
- d. Distinguish between the DNA replication stages by describing what happens during the process.
- e. State the **central dogma** of protein synthesis.
- f. Illustrate the events of **transcription** in a microbial cell.
- g. Differentiate between the three major types of RNA.
- h. Explain the three stages of **translation** in microbial cells.
- i. Using the **operon** as a guide, describe the control mechanisms for protein synthesis based on inducer substances and products of enzyme activity.
- j. Define **spontaneous mutation** and **induced mutation**, and name at least three **mutagens** and their effects on DNA function in microbial cells.
- k. Compare the effects of **base-pair substitutions** and **base-pair deletions/insertions** on microbial cell function.
- l. Describe the two ways that microbial cells can repair DNA damage or replication mistakes.
- m. Compare **transposons** and **insertion sequences**, and show how each can lead to a mutation in microbial cells.
- n. Assess the importance of **replica plating** to the identification of microbial mutants.
- o. Compare the design of **negative selection** and **positive selection** plating to the identification of bacterial mutants.
- p. Discuss the importance and performance of the Ames test.

Microbial Genetics Chapter 8

Raúl J. Cano, Jaime S. Colomé

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