

## Chapter 11 (Mechanisms of Microbial Genetics)

- Provide the essential functions of DNA
- Describe the genetic flow of information in the Central Dogma & associated processes
- Differentiate genotype & phenotype
- List the three models of DNA replication and name the accepted model. Be familiar with the strand appearance if provided a figure.
- **Bacterial replication:**
  - Cellular location
  - Three steps & brief description
- **Enzyme, protein or structure relative to DNA replication:**
  - DNA polymerase I
  - DNA polymerase III
  - Helicase
  - Origin of replication
  - Replication fork
  - Ligase
  - RNA primase
  - Primer
  - Single-stranded binding (SSB) proteins
  - Sliding clamp
  - Topoisomerase II (DNA gyrase)
- Differentiate leading and lagging strand
- Describe Okazaki fragments and the enzymes involved in joining fragment
- Provide brief description of eukaryotic DNA replication in terms of:
  - Cellular location
  - Name the eukaryotic DNA polymerases & their associated DNA strand
- **Describe general RNA transcription** in terms of:
  - Template (antisense) vs. non-template (sense) strands
  - RNA transcript & relation to above strands
  - Requirement of DNA double helix
- Describe bacterial transcription in terms of:
  - Cellular location

# Microbiology Genetics Study Guide

**Ying-Ying Zheng**



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