

## Chapter 12 Study Guide

### CHAPTER 12 Gene Expression at the Molecular Level I. Production of mRNA and Proteins

1. Write out the "Central Dogma" of Biology and explain what it attempts to describe.
  - a. DNA → Transcription → mRNA → Translation → Polypeptide
  - b. Traces the pathway of information flow within cells.
2. Describe the roles of mRNA, tRNA, and rRNA in the process of protein synthesis.
  - a. mRNA – Carries the information from the DNA to the Ribosome.
  - b. rRNA – Structural components of the Ribosome.
  - c. tRNA – Transfers Amino Acids to the Ribosome (During Translation).
3. Diagram and explain how new nucleotides are added to a growing chain of RNA.
  - a. This occurs when RNA Polymerase attaches to the DNA Template Strand in the 3' → 5' direction. For each Nucleotide on the Template Strand, RNA Polymerase adds a matching RNA Nucleotide to the 3' end of the RNA strand.
4. Identify which of the two DNA strands is the Template Strand, and how you determine this.
  - a. There is the Primer Strand and the Template Strand.
  - b. The Primer Strand will have a Pyrophosphate removed, while the RNA Polymerase acts on the Template Strand.
5. List all the proteins involved in Transcription, and the role of each.
  - a. RNA Polymerase: Binds to the Promoter and starts to unwind the DNA Strands. Ribonucleoside Triphosphates then line up oppositely to the DNA Template Strand, and RNA Polymerase connects them together in the 5' → 3' direction.
  - b. Promoter: Region of a gene where RNA Polymerase attaches to begin Transcription.
6. List and explain the mechanism of the two ways in which only mRNA can be post-transcriptionally modified.
  - a. The addition of a 5' 7-Methyl Guanosine "Cap".
    - i. Allows mRNA to exit the Nucleus and bind to the Ribosome.
  - b. Addition of a Poly-A "Tail".
    - i. Allows mRNA to be exported from the Nucleus and persist in Cytosol.
7. List and explain the mechanism of the two ways in which only tRNA can be post-transcriptionally modified.
  - a. The addition of CCA to the 3' end.
    - i. Essential to allow tRNAs to participate in the decoding process.
  - b. The Chemical Modification of Bases.
    - i. Ensure Translational competency and promote cellular viability.
8. List and explain the mechanism of the three ways in which all RNAs can be post-transcriptionally modified.
  - a. Splicing - The removal of introns (all types of RNA) from the action of Splicosomes, forming a much shorter RNA Transcript.
    - i. Alternative Splicing - Not all Exons are always included in the final mRNA either. Different combinations of Exons are used to produce different mRNAs which will code for different proteins.
  - b. The Primary/Pre-Transcript may be cut into more than one RNA.
    - i. Always occurs in rRNA.
  - c. The removal of Nucleotides from the 5' and/or 3' end of the RNA.
  - d. RNA Editing.
    - i. Substitution Editing – One Nucleotide is substituted for another.
    - ii. Insertion/Deletion Editing – Nucleotides are simply added or removed.
9. Identify what a "codon" is, where it is found, and how it helps determine the amino acid sequence in a protein.
  - a. A Codon is a sequence of 3 bases that code for an Amino Acid
  - b. Found in mRNA
  - c. Paired with the Anticodon Loop on tRNA to produce Amino Acids in the Ribosome.
10. Identify what an Aminoacyl-tRNA Synthetase is, and describe the two step mechanism used to load the appropriate amino acid onto each tRNA.

## Chapter 12 Study Guide

**Susan K. Grove, Jennifer R. Gray, Nancy  
Burns**

## **Chapter 12 Study Guide:**

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