

Study Guide B continued

SECTION 4. TRANSCRIPTION

1. replication (nucleus)
2. transcription (nucleus)
3. translation (cytoplasm)
4. Contains the sugar ribose
5. Has the bases A, C, G, and T
6. Typically single-stranded
7. RNA polymerase
8. A large transcription complex, including RNA polymerase and other proteins, assembles at the start of a gene and begins to unwind the DNA. Using one strand of the DNA as a template, RNA polymerase strings together a complementary strand of RNA. The RNA strand detaches from the DNA as it is transcribed, and the DNA zips back together.
9. **mRNA:** intermediate message that is translated to form a protein; **rRNA:** forms part of ribosomes; **tRNA:** brings amino acids from the cytoplasm to a ribosome to help make the growing protein
10. Both occur within the nucleus of eukaryotic cells, are catalyzed by large enzymes, involve unwinding of the DNA double helix, involve complementary base pairing of the DNA strand, and are highly regulated by the cell.
11. Replication occurs only once during each round of the cell cycle and makes a double-stranded copy of all the DNA in a cell. Transcription occurs repeatedly throughout the cell cycle to make proteins, rRNAs, and tRNAs as needed by a cell. Transcription makes a single-stranded complement of only a particular DNA sequence.
12. mRNA is a form of the DNA message that tells the cell what type of protein to make. rRNA is a key component of ribosomes. tRNA transfers, or carries, amino acids from the cytoplasm to the ribosome.
13. the process of copying a sequence of DNA to produce a complementary strand of RNA

SECTION 5. TRANSLATION

1. the process that converts an mRNA message into a polypeptide, or protein
 2. sequences of three nucleotides that code for an amino acid
 3. RNA
 4. the order in which nucleotides are read; they are read as a series of three, nonoverlapping nucleotides
 5. arginine (Arg)
 6. stop codon
 7. UGG
 8. glycine (Gly)
 9. Ribosomes, tRNA molecules
 10. small
 11. large
 12. amino acid, anticodon
- Cycle Diagram:**
- A. An exposed codon attracts a complementary tRNA bearing an amino acid.
 - B. the ribosome forms a peptide bond between the amino acids. It breaks the bond between the first amino acid and tRNA.
 - C. the ribosome pulls the mRNA strand the length of one codon. The first tRNA exits the ribosome, and another codon is exposed.
13. codons
 14. anticodon
 15. Stop codons indicate where translation is to stop. (Students may mention that methionine is also a start codon.)

SECTION 6. GENE EXPRESSION AND REGULATION

1. Regulation allows the cells to better respond to stimuli and to conserve energy and materials.
2. transcription
3. promoter
4. operon, promoter, operator, genes
5. RNA polymerase is blocked by the repressor.
6. The genes are not transcribed.

Holt Biology Genetic Technology Answers

Zhe Xu



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