

## **Chapter 12 S. R. Answer Key**

### **Section Review 12-1**

1. c 2. b 3. a 4. double helix 5. Watson, Crick  
6. hydrogen bonds 7. nucleotide 8. sugar-phosphate backbone 9. The hydrogen bonds of DNA are analogous to the rungs of a twisted ladder, while the sugar-phosphate backbones of the double helix are analogous to the sides of a twisted ladder.  
10. Approximately 28% of the bases would be thymine.

### **Section Review 12-2**

1. separates 2. two; four 3. base pairing 4. original strand 5. new strand 6. original strand 7. new strand 8. By coiling and folding very tightly, the DNA of a bacterium is able to fit inside of its cell.  
9. Typically, chromosomal fibers are dispersed and are not visible. During mitosis, however, they become so tightly packed together as to be visible under a light microscope.

### **Section Review 12-3**

1. messenger RNA, transfer RNA, ribosomal RNA  
2. transcription 3. polymerase 4. translation  
5. anticodon 6. Both DNA and RNA consist of a long chain of nucleotides. DNA, however, contains the base thymine. RNA contains uracil in place of thymine. DNA is double-stranded; RNA is singlestranded.  
DNA has a deoxyribose sugar; RNA has a ribose sugar. 7. Messenger RNA carries protein assembly instructions, ribosomal RNA helps to assemble proteins, and transfer RNA carries amino acids used in the construction of proteins.  
8. Answers may vary. Having a sequence of DNA that could be edited into several different mRNA molecules makes it possible for a single gene to produce several different proteins specifically used in different tissues. This allows a cell to carry less genetic material. It also makes it possible for very small changes in DNA sequences to have a large change in gene expression. This is a mechanism for evolutionary change. 9. The sequence CGCUAUAGC would produce the amino acid sequence arginine, tyrosine, and serine. 10. During transcription, the DNA would produce mRNA in which the third base is C, not A. Translation however, would be unaffected because the original and the altered codons, CGA and CGC, both specify the amino acid arginine.

### **Section Review 12-4**

1. mutations 2. gene mutations 3. chromosomal mutation 4. deletion: involves the loss of all or part of a chromosome 5. duplication: produces extra copies of parts of a chromosome 6. inversion: reverses the direction of parts of chromosomes

7. translocation: occurs when part of one chromosome breaks off and attaches to another 8. Substitution and frameshift mutations are both point mutations, because they occur at a single point in the DNA sequence. However, a substitution affects only a single codon, whereas a frameshift mutation affects all the codons that follow the point of the mutation.  
9. Polyploid plants are often larger and stronger. This benefits humans by increasing agricultural production and the food supply. 10. An insertion, or frameshift mutation, has occurred.

## **Chapter Vocabulary Review**

1. transfer RNA 2. messenger RNA 3. ribosomal RNA 4. a 5. d 6. c 7. b 8. k 9. c 10. g 11. i 12. f 13. l 14. h 15. j 16. nucleotide 17. base pairing 18. chromatin 19. transcription 20. RNA polymerase 21. exons 22. translation 23. anticodon 24. don't need to know 25. don't need to know

## **Graphic Organizer**

1. DNA molecule "unzips" and the two strands unwind. 2. Unwound strands of DNA serve as templates for new DNA. 3. DNA polymerase joins individual nucleotides to produce a new strand. 4. DNA polymerase proofreads the new strands.

# 12 Section Review Biology

**Neil E. Walker, Beverly Baer**



## 12 Section Review Biology:

**Biosynthesis** F.J. Leeper, J.C. Vederas, 2003-09-05 The present volume is the first of two planned to provide state of the art expert reviews of central topics in modern natural products chemistry and secondary metabolism Many scientists not directly involved in these areas still view the field of natural products as focused primarily on the isolation structure elucidation and cataloging of new compounds i e grind and find or on their chemical synthesis However two revolutions in experimental techniques since the early 1950 s have completely transformed the understanding of chemical and biological relationships between highly diverse natural products The first was the use isotopes to label precursors and follow the fate of key atoms during biochemical transformations to a final product Advances in methodology that began in the mid 1970 s especially using NMR to detect stable isotopes dramatically expanded the level of mechanistic detail available to study in vivo conversions of secondary metabolites The second revolution started in the late 1980 s as researchers developed methods to identify purify and genetically manipulate individual enzymes sponsible for the intricate steps leading to complex natural products This has expanded the field from building an encyclopaedia of natural materials to being able to initiate control of biochemical pathways to secondary metabolites Recent advances suggest it may soon be possible to rationally manipulate biochemical pathways in vivo to rapidly produce almost any target molecule including n natural variants in substantial quantity **Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02

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