

Assembly of polypeptide bond holding the first tRNA molecule to its amino acids is broken. the tRNA then moves onto a third binding site, from which it exits the ribosome. ribosome then moves to the 3 codon.

Completing the polypeptide ribosome stop codon, it releases both the newly formed polypeptide and the mRNA molecule.

13. Describe the role of rRNA during translation. help hold ribosomal proteins in place and locate the beginning of the mRNA message.---

### The Molecular Basis of Heredity

For Questions 14–18, write the letter of the correct answer on the line at the left.

14. The instructions for assembling proteins are contained in the

A. genes. B. ribosomes. C. exons. D. introns.

15. The central dogma of molecular biology is that information is transferred from

A. RNA to protein to DNA. B. DNA to protein to RNA.

C. protein to DNA to RNA. D. DNA to RNA to protein.

16. An exception to the central dogma is

A. the infection of a virus by a bacteriophage.

B. the ability of some viruses to transfer information from RNA to DNA.

C. the expression of different genes during different stages of development.

D. the translation of the codon into the anticodon of tRNA.

17. The way in which DNA, RNA, and proteins are all involved in putting genetic information into action in living cells is called

A. translation. B. transcription. C. gene expression. D. viral transfer.

18. All organisms are mostly the same in

A. the proteins they make on their ribosomes. B. how their proteins catalyze chemical reactions.

C. the size of their genes. D. the molecular biology of their genes.

### 13.3 Mutations

#### Lesson Objectives

18. Define mutations and describe the different types of mutations.

19. Describe the effects mutations can have on genes.

#### 20. Lesson Summary

**Types of Mutations** Mutations are heritable changes in genetic information. There are two categories of mutations: gene mutations and chromosomal mutations.

21. Gene mutations produce changes in a single gene. **Point mutations** involve only one or a few nucleotides. Substitutions, insertions, and deletions are all types of point mutations.

- In a substitution, one base is changed to a different base, which may affect only a single amino acid and have no effect at all.
- In insertions and deletions, one base is inserted or removed from the DNA sequence. Insertions and deletions are called **frameshift mutations** because they shift the "reading frame" of the genetic message. Frameshift mutations can change every amino acid that follows the point of mutation and can have dramatic effects on the organism.

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