

10. **Gene expression** is the way in which DNA, RNA, and proteins are involved in putting genetic information into action in living cells.

The genetic code is generally the same in all organisms.

The Genetic Code

Use the diagram to answer Questions 1–7.

1. What are the words along the outside of the circle? **the amino acids**
11. **11.**
2. What can you find by reading this diagram from the inside out? **you find what each codon and the other things correspond**
12. **12.**
3. For which amino acid is AAA a codon? **lysine**
13. **13.**
4. What is the codon for tryptophan? **AUG**
14. **14.**
5. For which amino acid is GGA a codon? **glycine**
15. **15.**
6. What is a codon for alanine? **GCA**
16. **16.**
7. What are three other codons for alanine? **GCC, GCU, GCG**

Translation

Use the diagram to answer Questions 8–10.

lysine methionine

Phenylalanine leucine

8. What is the anticodon for leucine? **__**
9. What is the codon for leucine? **GAC**
10. List the amino acids in the order they would appear in the polypeptide coded for by this mRNA. **__**
11. What is the difference between transcription and translation? **transcription is synthesis RNA molecule from DNA template then translation is the sequence of base of an mRNA is converted into the sequence of amino acids of a protein**

12. Complete the table to describe the steps in protein synthesis

| Step | Description |
|--------------------------|--|
| Beginning of translation | ribosome attaches to an mRNA in the cytoplasm. tRNA bring the proper amino acids into the ribosomes. ribosome attaches these amino acids to the growing chain. |
| 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 |

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