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Crash Course Biology (2012) #11: DNA Transcription and Translation

Name: _____ Date: _____

You can access the video here → <https://youtu.be/5qR-807si-qALJEgAOKZL5M>

1. Inside the nucleus, copying DNA into RNA is called _____ and happens _____ by gene.
2. The promoter with repeating TATA bases—the _____—helps RNA polymerase bind.
3. _____ binds at the promoter, unzips the helix, and builds the RNA strand.
4. In RNA, adenine pairs with _____, not thymine.
5. A special guanine added to the 5' end is the _____ that protects mRNA.
6. mRNA ends at the 3' side with a _____ of about 250 A's.
7. The extra "junk" is removed by _____, which cuts out introns and joins exons.
8. The small nuclear ribonucleoproteins that mark splice sites are called _____.
9. Together, snRNPs and other proteins form the _____, the editor of pre-mRNA.
10. Translation occurs on a _____, a workspace made of rRNA and proteins.
11. On mRNA, a three-letter _____ is matched by a tRNA anticodon.
12. The start signal for most genes is _____ on mRNA (methionine).
13. To pair with AUG, a tRNA uses the anticodon _____ while carrying methionine.
14. Hydrogen-bonded α -helices and β -pleated sheets are a protein's _____ structure.
15. When R groups interact to fold a polypeptide into a 3-D shape, that level is the _____ structure.

Crash Course Biology (2012) #11: DNA Transcription and Translation - KEY

1. Inside the nucleus, copying DNA into RNA is called **transcription** and happens **gene by gene**.
2. The promoter with repeating TATA bases—the **TATA box**—helps RNA polymerase bind.
3. **RNA polymerase** binds at the promoter, unzips the helix, and builds the RNA strand.
4. In RNA, adenine pairs with **uracil**, not thymine.
5. A special guanine added to the 5' end is the **5' cap** that protects mRNA.
6. mRNA ends at the 3' side with a **poly-A tail** of about 250 A's.
7. The extra "junk" is removed by **RNA splicing**, which cuts out introns and joins exons.
8. The small nuclear ribonucleoproteins that mark splice sites are called **snRNPs**.
9. Together, snRNPs and other proteins form the **spliceosome**, the editor of pre-mRNA.
10. Translation occurs on a **ribosome**, a workspace made of rRNA and proteins.
11. On mRNA, a three-letter **codon** is matched by a tRNA anticodon.
12. The start signal for most genes is **AUG** on mRNA (methionine).
13. To pair with AUG, a tRNA uses the anticodon **UAC** while carrying methionine.
14. Hydrogen-bonded α -helices and β -pleated sheets are a protein's **secondary** structure.
15. When R groups interact to fold a polypeptide into a 3-D shape, that level is the **tertiary** structure.

15 Questions

Answer Key Included

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