

Protein Synthesis - Guided Notes

Use Ch. 8 in your textbook to answer the following questions on DNA and protein synthesis in your notebook. Attach this list of questions to your answers when you are finished...

1. Both DNA and RNA are nucleic acids, but they differ in structure. What are the differences?
2. How does an organism's genotype differ from its phenotype?
3. What do we mean when we say a gene is "expressed"?
4. RNA polymerase is an enzyme that speeds up the transcription process in 2 ways. What does RNA polymerase do?
5. During transcription, what happens after the DNA separates, or "unzips"?
6. What are introns and exons of DNA or RNA?
7. Before mRNA leaves the nucleus of a cell to move to the ribosome, it undergoes RNA splicing with the help of enzymes. What do the enzymes do during RNA splicing to change the strand?
8. What is "elongation" during translation?
9. Find Figure 8.5 on page 186 in your book. What is happening in this SEM (scanning electron micrograph) photo?