

Lesson 5: DNA Replication

1. What is meant by semi-conservative?

DNA replication is the process by which the genome (DNA) is copied. In cells, DNA is a double helix, so each time before the double helix is copied, each chromosome is first duplicated so there is a duplicate. After duplicated, each of the two new chromosomes (DNA) produced (DNA) must allow access to all their important coding and non-coding information for biological functions. As in all biological processes, there are errors in the replication of molecules, such as deletions and duplications. In the cell, several mechanisms exist to correct errors in the DNA before division. These mechanisms include the fact that complementary bases are joined easily, some "extra-proof" checks exist, and mistakes in DNA production are fixed. If errors are not caught or fixed, errors can be passed on, even to those in the next generation. These consequences provide a natural error checking system for DNA production.

1. Explain how it's that we can trace the steps in the process of DNA replication. Include any structures that are at particular steps and indicate their function.
2. What is a replication fork? What does a replication bubble look like when it starts?
3. Why do the replication forks move in opposite directions?
4. Label the following diagram and identify the process that the reaction?



5. Describe what it is important that DNA replication is semi-conservative.
6. Explain the importance of having multiple mechanisms for correcting mistakes in DNA replication.
7. Describe how the semi-conservative mechanism works during DNA replication.
8. How does DNA replication work in a cell?
9. How is DNA replication different from other types of DNA replication?
10. How does DNA replication work in a cell?

Lesson 6: Genetic Continuity

1. Explain genetic continuity.
2. Explain the process of DNA replication and how it works.
3. Explain the role of DNA replication in:
 - a. maintaining genetic continuity in a species
 - b. maintaining genetic continuity in a species
4. Explain how genetic continuity is maintained during DNA replication.

Living Environment Genetic Continuity Answers

AW Rasmussen



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