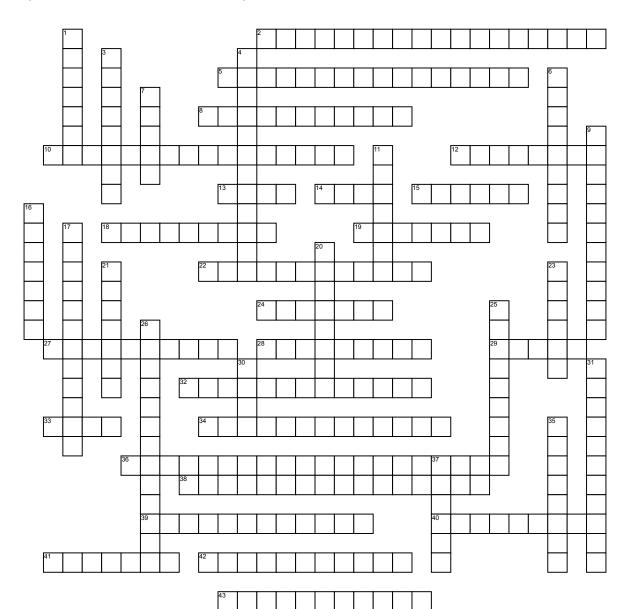
## Replication, Transcription, Translation, and Mutations



## Across

2. Type of mutation that changes the entire sequence of DNA following the mistake (2 words)

5. tRNA and mRNA are involved in (2 words) and be replicated

8. A mutation can change the \_\_\_\_\_\_ when forming new cells (2 words)

10. DNA replication is

12. After transcription, mRNA leaves the nucleus and attaches itself to a

- 13. \_\_\_\_\_ carries amino acids to the site of protein synthesis
- 14. The bases are often abbreviated to \_, \_, \_ and \_

joins the Okazaki fragments 15.

18. Unwound DNA

19. A mutation can be

, beneficial, or harmful 22. DNA polymerase replicates one strand \_ \_ and one not

24. A mutagen is a(n) \_\_\_\_\_, such as radiation, chemicals, high temperatures, or UV light

27. A purine --> purine or pyrimidine --> pyrimidine mutation

28. A(n) is a sequence of three bases in a tRNA molecule

29. Passed on from parents to offspring

32. connect the bases (2 words)

33. Part of a chromosome, passed on from parents to offspring

34. \_\_\_\_\_adds nucleotides and checks to make sure the new copy is correct (2 words)

36. Ribosomes are located on the (2 words) 38. Because it only makes 5'-3', DNA polymerase makes little sections for the other side called \_\_\_\_\_ (2 words)

39. One base is placed incorrectly 40. One base is added

- **41**.\_\_\_\_\_ creates a primer on the DNA strand by adding RNA nucleotides 42. DNA is shaped like a twisted ladder, or \_\_\_\_\_ (2 words)
- 43. Mutations can be \_\_\_\_
- Down
- 1. In DNA, adenine pairs with \_
- 3. One base is deleted
- 4. A purine --> pyrimidine or pyrimidine --> purine
- mutation
- 6. The message from the mRNA will be translated into an \_\_\_\_\_\_ sequence (2 words)
- 7. A(n) \_\_\_\_\_\_ is a sequence of three bases that codes for an amino acid
- 9. The sides of DNA are made of and phosphate.
- 11. Transcription happens in the
- 16. DNA replication does not happen when the cell \_
- 17. DNA is
- 20. A change that takes place in DNA
- 21. A and G are both

23. RNA has \_ instead of thymine

25. Translation occurs in the \_ \_, specifically on the ribosomes

\_\_\_\_ contain nitrogen (2 words) 26.

30. Transcription is the process of making \_

31. T and C are **35.** \_\_\_\_\_ are made in the ribosomes **37.** Helicase \_\_\_\_\_ DNA

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