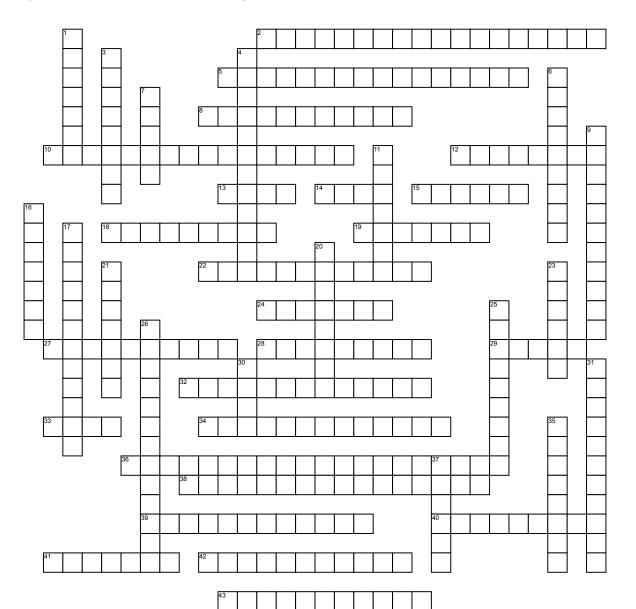
Replication, Transcription, Translation, and Mutations



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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