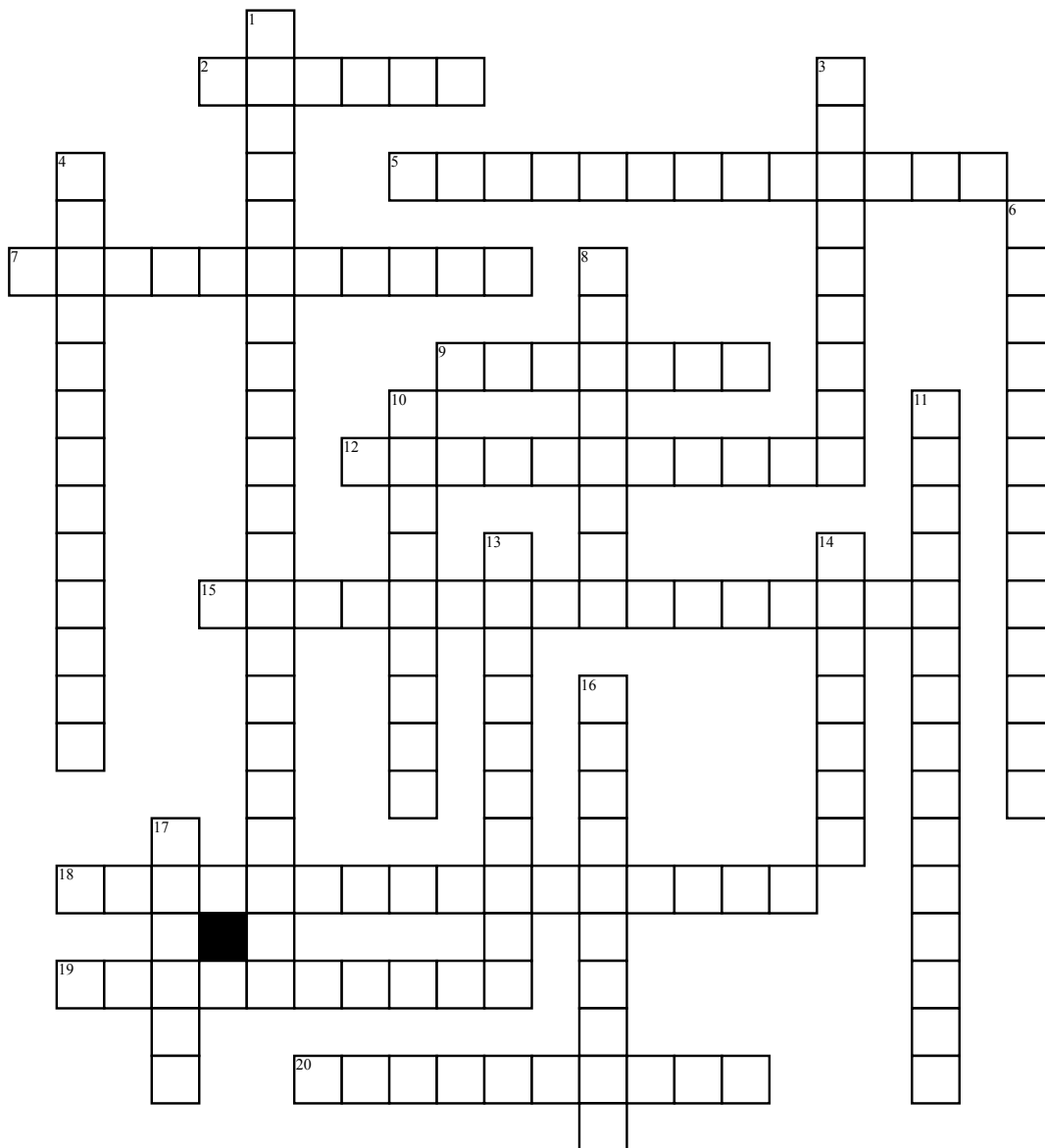


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# Cell division/DNA structure and replication Crossword



## Across

2. What signals the cellular reproduction process in cells?
5. Elongates away from replication fork.
7. What are substances and agents known to cause cancer?
9. Cells with n number of chromosomes.
12. What is the biological process of producing two DNA molecules from one original DNA molecule?
15. A form of replication in which parental strands of DNA separate, serve as templates, and producer DNA molecules that have one strand of parental DNA and one strand of new DNA.

18. Lagging strand synthesized discontinuously by DNA polymerase.
19. Formed by DNA coiling around histones.
20. Structure at the center of a chromosome where the sister chromatids are attached in prophase.

## Down

1. Cyclins bind to what enzyme that initiates various phases that take place in the cell cycle?
3. The relaxed form DNA takes in the nucleus
4. Elongates as DNA unwinds
6. An enzyme that catalyzes the addition of nucleotides to the new DNA strand.

8. Enzyme that unwinds and unzips the double helix by breaking hydrogen bonds between the bases leaving single strands of DNA.
10. What is the way in which cells produce and divide?
11. What is a half of a chromosome that contains identical copies of DNA called?
13. What enzyme is added as the helix unwinds into short segments of RNA?
14. Cells that contain 2n chromosomes.
16. How is DNA organized in eukaryotic cells?
17. Whats the result in which cells don't respond to normal cell cycle control mechanisms.