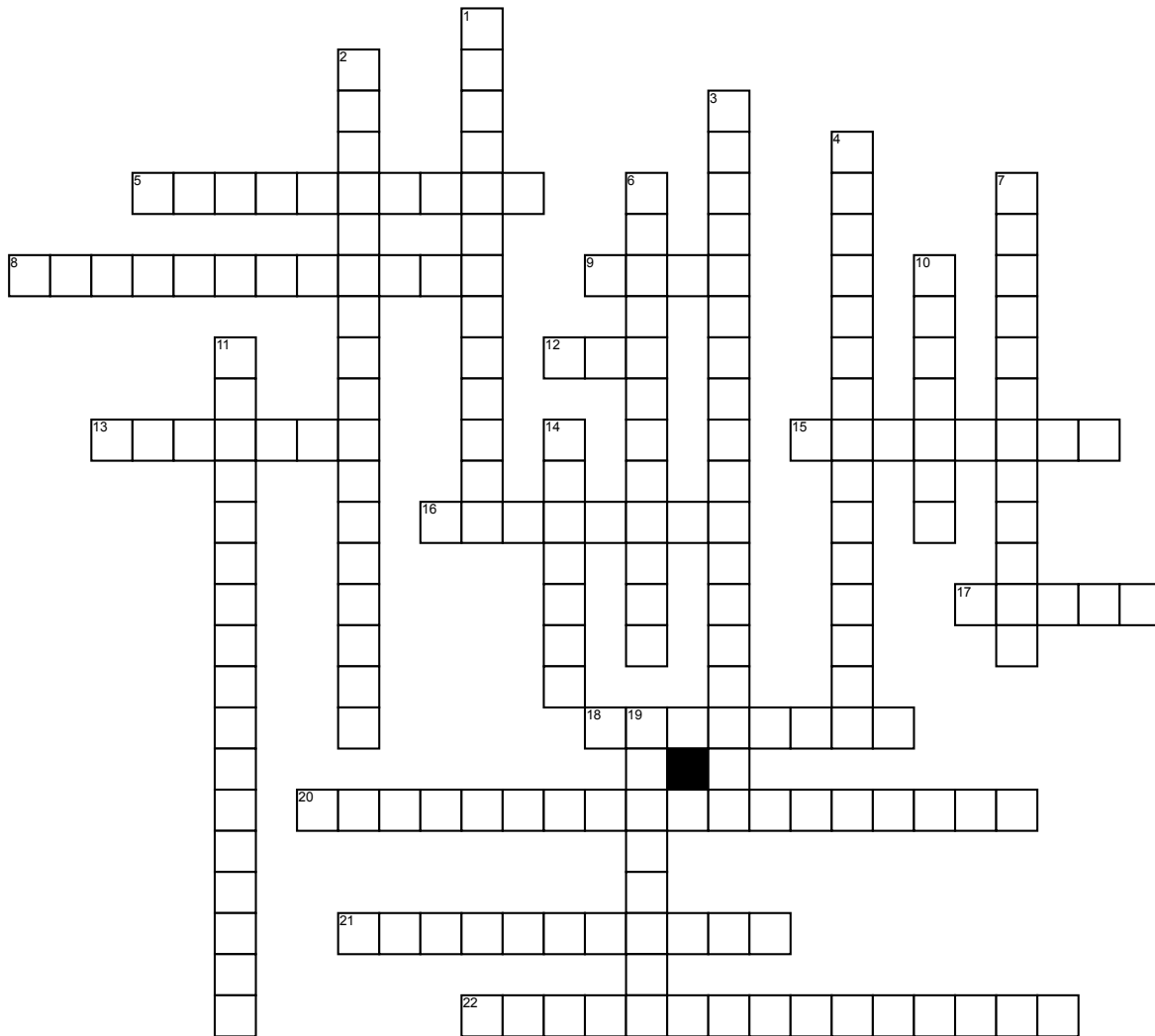


BIOCHEM 100 | Project 5



Across

5. mass of cells formed in the early development of mammals, eventually forms the embryo and placenta
 8. exchange of genetic material between non-sister chromatids resulting in new allele combinations
 9. small genetic variations of a single DNA base that help scientists locate genes of concern
 12. process of amplifying a copy of a specific segment of DNA
 13. circular piece of double stranded DNA
 15. a gene that has the potential to cause cancer
 16. fragment of DNA which can be radioactively labeled to detect nucleotide sequences complementary to it

17. term used to describe the FBI's program to exchange and compare DNA profiles electronically in order to link crimes to each other and to known offenders

18. process of removing introns from mRNAs and piecing together the remaining exons
 20. international research project with the goal of sequencing the entirety of the human DNA sequence
 21. process of reading mRNA to produce a specific amino acid chain
 22. a gene that protects a cell from becoming cancerous

Down

1. process of copying DNA into RNA with RNA polymerase
 2. one copy of an affected gene must be present for traits to develop

3. two copies of an affected gene must be present for traits to develop

4. process where a cell changes from one type to another, more specialized type
 6. "DNA makes RNA and RNA makes protein"
 7. process of inserting plasmids into bacterium
 10. small pieces of information on mRNA that tell how to assemble the final processed mRNA
 11. cleaves DNA into fragments at specific, recognizable sites
 14. the type of bond that link amino acids together
 19. region of DNA that initiates transcription of a particular gene