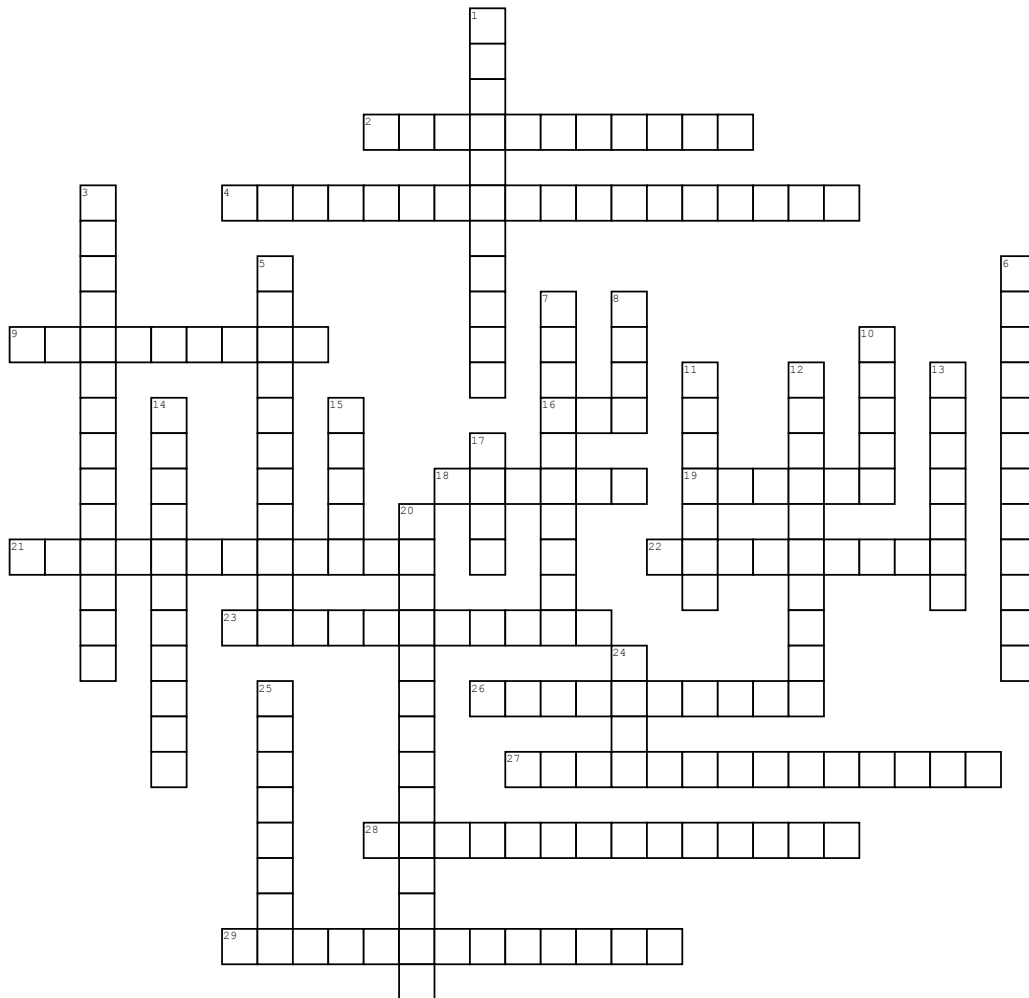


DNA & RNA



Across

- 2. adapt or set apart to serve a special function
- 4. either of the nucleotide bases linked by a hydrogen bond on opposite strands of DNA
- 9. biological cells that can differentiate into specialized cells
- 16. ribonucleic acid
- 18. paired with adenine in single-stranded RNA
- 19. a specialized cell transmitting nerve impulses; a nerve cell
- 21. process by which genetic information is copied into a new molecule of mRNA
- 22. a sequence of three nucleotides forming a unit of genetic code in a transfer RNA molecule

- 23. a sugar derived from ribose by replacing a hydroxyl group with hydrogen
- 26. cells of the nerve system
- 27. any mechanisms used by cells to increase or decrease the production of specific products
- 28. newly synthesized strand of DNA
- 29. red cell that carries oxygen to all parts of the body

Down

- 1. cells found in the muscle tissue
- 3. process by which less specialized cells develops to become more distinct in form and function
- 5. a chain of amino acids
- 6. an exchange of genes between two chromosomes
- 7. male reproductive cell
- 8. transfer RNA

- 10. a sequence of three nucleotides that form a unit of genetic code in a DNA or RNA molecule
- 11. paired with cytosine in double-stranded DNA
- 12. each of a pair of curved cells that surround a stoma
- 13. paired with adenine in double-stranded DNA
- 14. process by which the sequence of mRNA is decoded to make amino acids
- 15. genetically determined characteristic
- 17. messenger RNA
- 20. process by which double-stranded DNA molecule copies itself to make two new identical DNA molecules
- 24. a section of a DNA molecule that serves as the basic unit of hereditary
- 25. paired with guanine in double-stranded DNA

Word Bank

- | | | | | |
|-----------------|-----------------|----------------|---------------------|-----------------|
| muscle cells | crossing over | differentiated | cytosine | polypeptide |
| guard cells | thymine | anticodon | nerve cells | guanine |
| stem cells | transcripton | tRNA | complementary bases | daughter strand |
| specialized | red blood cells | sperm cells | gene | deoxyribose |
| gene regulation | trait | codon | mRNA | uracil |
| translation | neuron | RNA | DNA replication | |