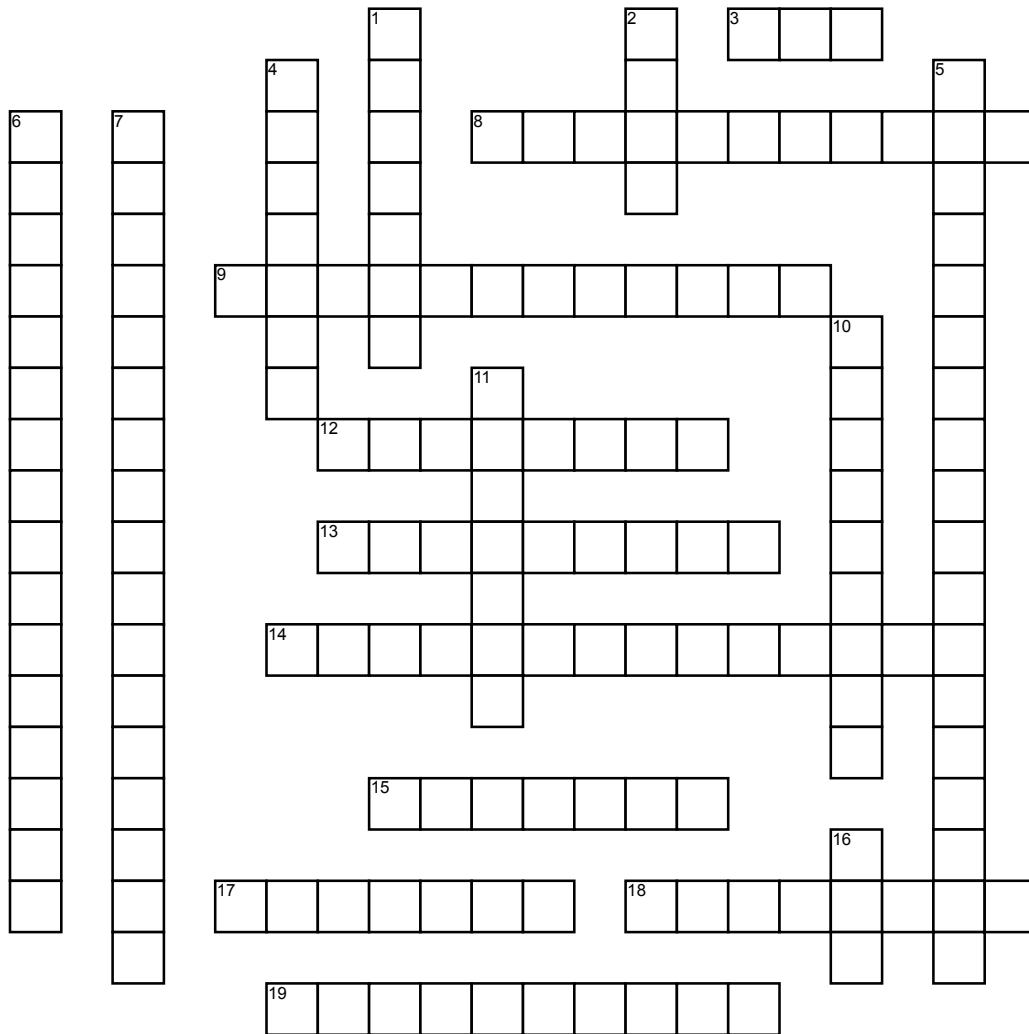


# DMD



**Across**

- 3. consists of a single strand of nucleotides, and it occurs in a variety of lengths and shapes.
- 8. structure in all living cells that consists of a single molecule of DNA bonded to various proteins and that carries the genes determining heredity.
- 9. an individual organism that carries different or non-identical alleles for a particular trait
- 12. occurs when a DNA gene is damaged or changed in such a way as to alter the genetic message carried by that gene
- 13. a gene that can be masked by a dominant gene
- 14. the process by which a double-stranded DNA molecule is copied to produce two identical DNA molecules

- 15. a process of cell duplication, or reproduction, during which one cell gives rise to two genetically identical daughter cells
- 17. essential for sexual reproduction and therefore occurs in all eukaryotes (including single-celled organisms) that reproduce sexually.
- 18. An allele or a gene that is expressed in an organism's phenotype, masking the effect of the recessive allele or gene when present
- 19. an individual has two of the same allele, whether dominant or recessive

**Down**

- 1. the pairs of genes occupying a specific spot on a chromosome.
- 2. an organism whose genetic material has been altered using techniques in genetics generally known as recombinant DNA technology.

- 4. A molecule composed of polymers of amino acids joined together by peptide bonds.
- 5. altering and cloning genes to produce a new trait in an organism or to make a biological substance, such as a protein or hormone.
- 6. a process of creating protein molecules.
- 7. autosomal dominant, autosomal recessive, X-linked dominant, and X-linked recessive
- 10. the young born of living organisms, produced either by a single organism or, in the case of sexual reproduction, two organisms
- 11. a mature haploid male or female germ cell which is able to unite with another of the opposite sex in sexual reproduction to form a zygote.
- 16. a molecule that contains the instructions an organism needs to develop, live and reproduce.

**Word Bank**

- |                   |             |                    |                     |
|-------------------|-------------|--------------------|---------------------|
| Protein Synthesis | Gametes     | Mendelian genetics | Genetic Engineering |
| Alleles           | GMOs        | Protein            | Offspring           |
| DNA               | Recessive   | RNA                | Mitosis             |
| DNA Replication   | Dominant    | Meiosis            | Heterozygous        |
| Mutation          | Chromosomes | Homozygous         |                     |