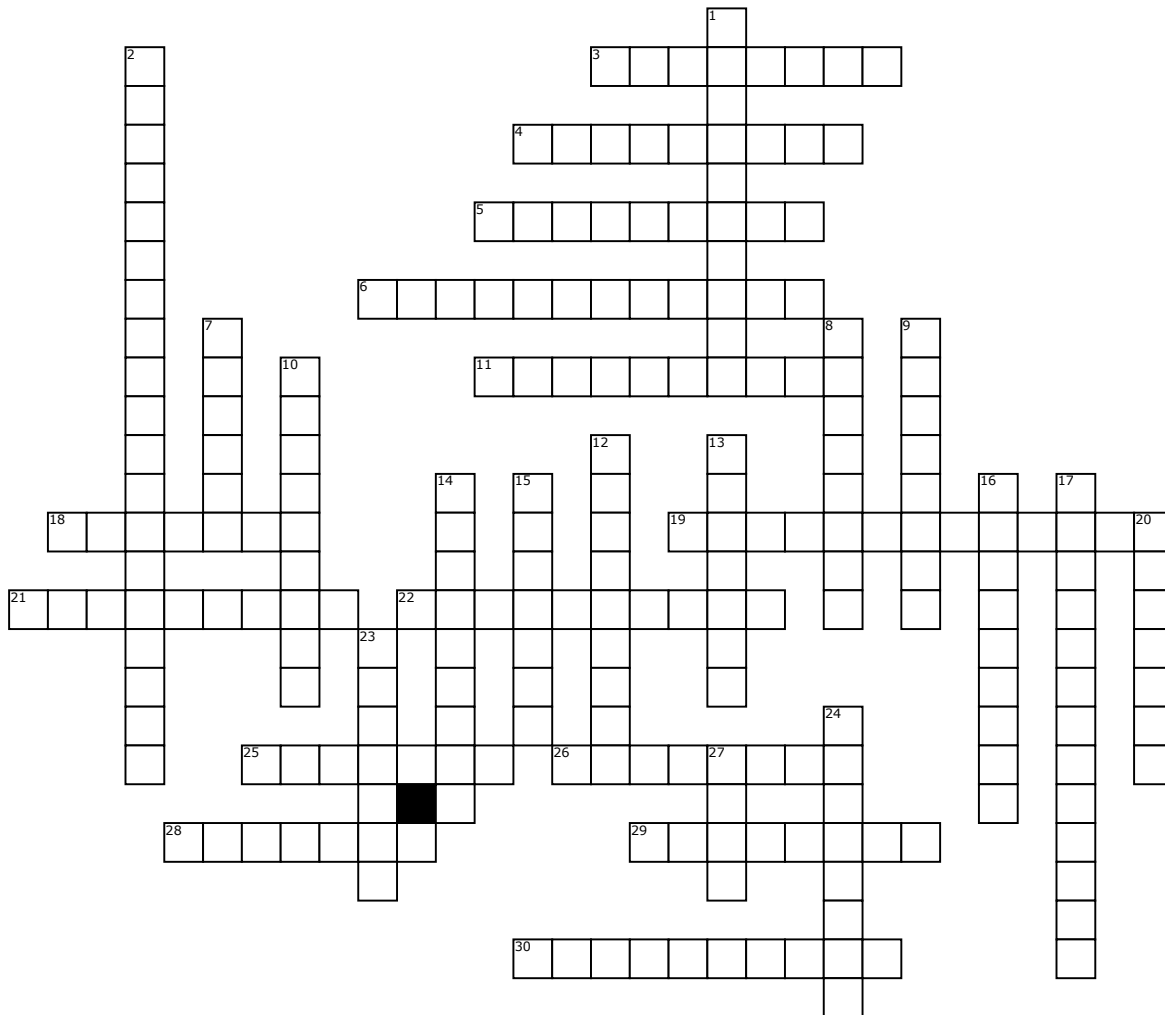


Terminologies in Genetics



Across

3. alleles carried by an individual for a certain gene

4. body chromosomes

5. shows the complete chromosome complement of an organism, arranged by pairs from the largest to the smallest chromosomes

6. a genotype which is composed of different alleles

11. nuclear structure that contains the genes

18. alternative forms of a gene

19. fusion of egg and sperm nuclei

21. a complex of DNA and proteins that forms chromosomes during cell division within the nucleus of eukaryotic cells

22. _____ chromosomes are chromosome pairs, one from each parent, that are similar in length, gene position and centromere location.

25. ploidy in gametes

26. a chart showing the biological relationships among individuals in families and inheritance pattern of traits from generation to generation

28. cell division that produces sex cells

29. collective term of all alleles in a population

30. field in genetics that studies the different proteins produced by an organism

Down

1. a genotype which is composed of identical alleles

2. the genetic material

7. this type of reproduction basically involves 2 parents and fusion of gametes

8. transmission of genetic information from generation to generation

9. a change in genetic information which may involve a single nucleotide to change in chromosomal structure or number

10. an allele that can be expressed only in homozygous condition

12. organism's observable traits

13. means of reproduction that does not involve fertilization or gene recombination

14. 2 identical strands of a double-stranded chromosome

15. a cell division that produces 2 identical cells

16. causes the differences among organisms

17. the genetic manipulation of microorganisms for the production of antibiotics, hormones, etc.

20. part of the cell that contains chromosomes

23. ploidy of somatic cells

24. field of biology focusing on the structure, function, evolution, mapping, and editing of genomes.

27. basic unit of heredity