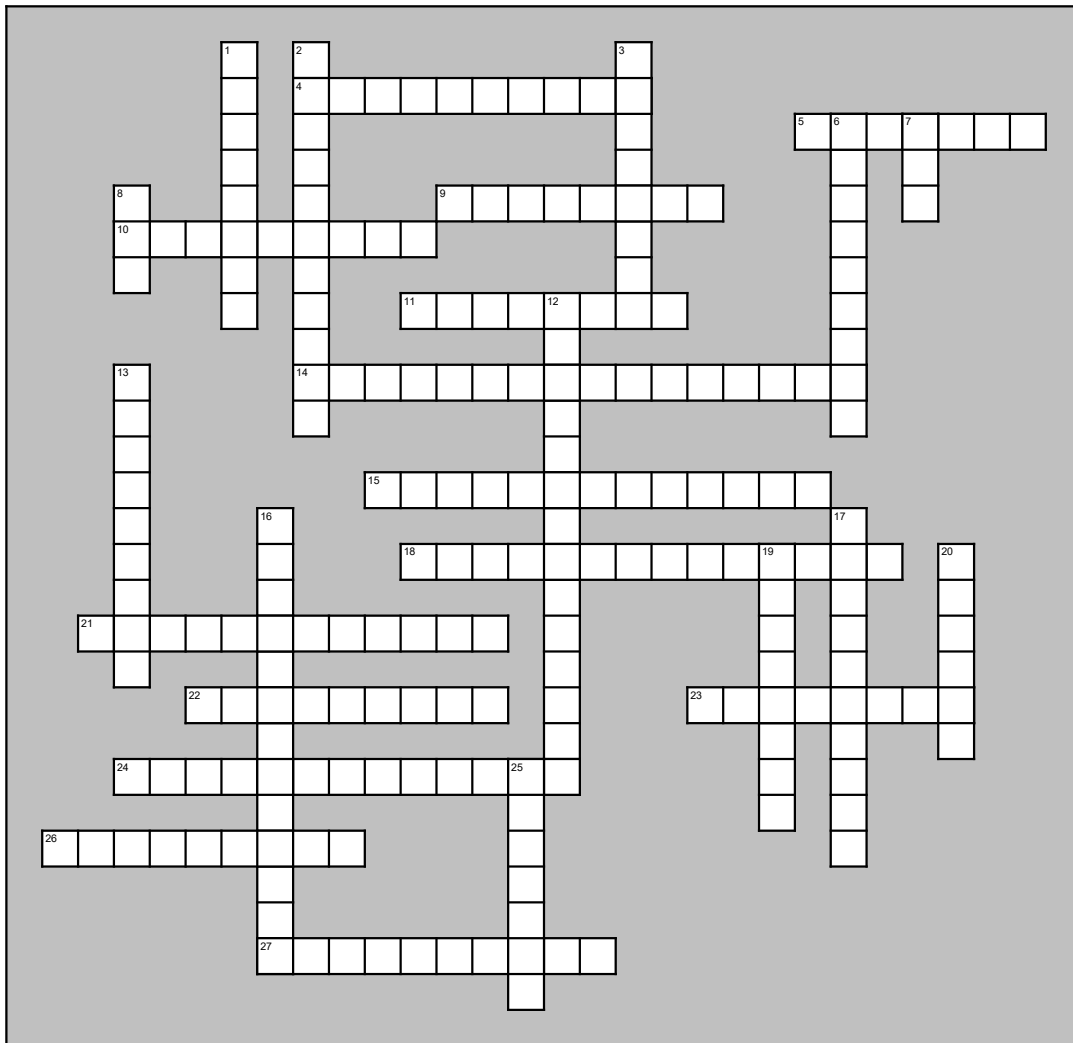


# Crossword



## Across

4. Autosomal dominance in which individuals have one extra or one less chromosome. Down, Turner, Klinefelter syndromes.
5. Karyotype \_\_\_ uses dyes to color chromosomes and match homologous pairs by size and shape.
9. Graphic model showing the inheritance of a trait in a family through multiple generations.
10. A "map" of chromosomes, like a police line up.
11. Person who has the genetic disease.
14. Detects diseases immediately after birth.
15. The removal of fetal fluid during pregnancy to test for chemical and cellular analysis.
18. Aneuploidy is caused by \_\_\_ in which chromosomes do not separate normally during meiosis.
21. Ultrasound, enables examination of fetus directly for deformities.
22. Autosomal \_\_\_ traits, like albinism, sickle cell, and cystic fibrosis occur when affected person has both alleles.
23. Autosomal \_\_\_ disease based one one allele masking the other. Huntington's disease, dwarfism, and aneuploidy.
24. The development of \_\_\_ has been limited due to ethics, limited offspring, and environmental influences.
26. Taken on the mother to help identify fetuses at risk of birth defects.
27. Autosomal recessive diseases that affects hemoglobin (the shape of RBC's) in those of African descent.

## Down

1. Traits that are observed most often in nature, not necessarily due to dominant alleles.
2. The preparation of an enlarged photograph showing paired homologous chromosomes from a cell.
3. Many genetic diseases results in common problems associated with specific chromosomal mutation.
6. Heterozygous \_\_\_ occurs in autosomal recessive traits that bolster ones immunity to certain diseases. e.g. sickle cell carriers are immune to malaria.
7. Autosomal recessive disease Phenylketonuria is caused by a lack of an enzyme so phenylalanine builds up and causes retardation.
8. Spectral karyotyping that dyes chromosomes different colors for ease of matching.
12. Autosomal recessive disease in caucasians that causes breathing issues and infections.
13. Traits produced by genes only on the gametes. Hemophilia, color blindness.
16. Extracts samples of amniotic fluid containing fetal cells.
17. "Born with" it.
19. The end of the chromosome which degrades after each duplication.
20. Physical, emotional, social, spiritual, vocational, and intellectual factors all contribute to this.
25. Person who do not have the genetic disease by possesses a gene for the disease.