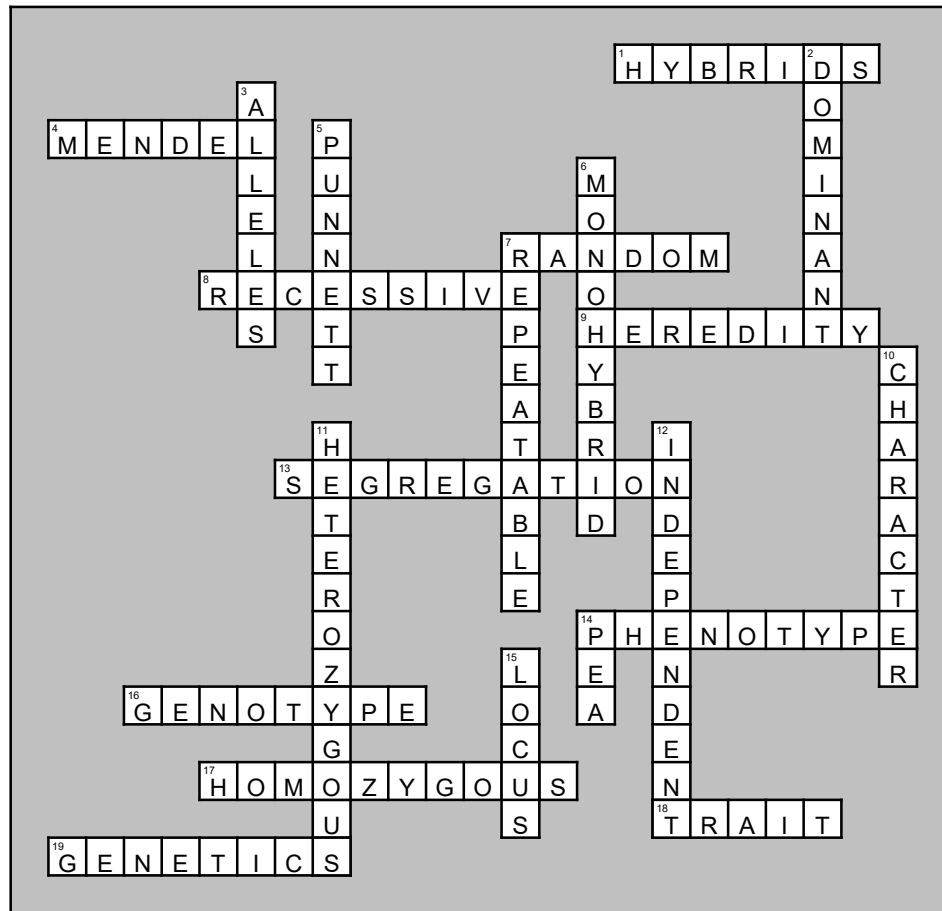


# Crossword



## Across

- The offspring of two different varieties are \_\_\_\_.
- The former monk whose scientific investigations with pea plants established the basis for modern Genetics.
- Mendel assumed that an equal number of male and female gametes are produced that could contribute to fertilization (zygote). He also assumed that gametes combine at \_\_\_\_.
- Gene alleles that are masked by the dominant alleles. They usually must appear in pairs in order to be expressed phenotypically.
- Genetics is the study of \_\_\_\_ . Transmission of traits from one generation to the next.
- The law of \_\_\_\_ states that alleles will separate during meiosis. Each parent cell contributes only one allele to the daughter cell.
- The actual appearance of a trait which can be observed. E.g. hair color is brown and curly.
- The actual genetic make up of the alleles. Alleles can be homozygous or heterozygous and appear the same phenotypically.
- A \_\_\_\_ genotype has identical alleles.
- Each variant for a character, such as purple or white flowers, is a \_\_\_\_.
- The study of the transmission of traits from parent to offspring through successive generations.

## Down

- For each trait, when one gene Allele can mask the expression of the other gene allele, this is called the \_\_\_\_ trait. The gene allele that gets masked is called the RECESSIVE allele.
- \_\_\_\_ are alternative versions of genes that account for variations in inherited characters. For each character, an organism inherits two alleles, one from each parent.
- A \_\_\_\_ square is a diagram showing the allele combinations that might result from a genetic cross between two parents.
- A cross between two individuals differing in a single character is a \_\_\_\_ Cross.
- Mendel chose definite and measurable hereditary traits that were scientific because they were \_\_\_\_.
- A heritable feature that varies among individuals, such as flower color, is called a \_\_\_\_.
- A \_\_\_\_ genotype has two different alleles.
- The law of \_\_\_\_ assortment is revealed by tracking two Characters at once (dihybrid cross). The inheritance of one character has no effect on the inheritance of another.
- Mendel is famous for his work with \_\_\_\_ plants while in the monastery.
- A \_\_\_\_ is the specific location of a gene along a chromosome. For a pair of homologous chromosomes (homologs), alleles of a gene reside at the same \_\_\_\_.