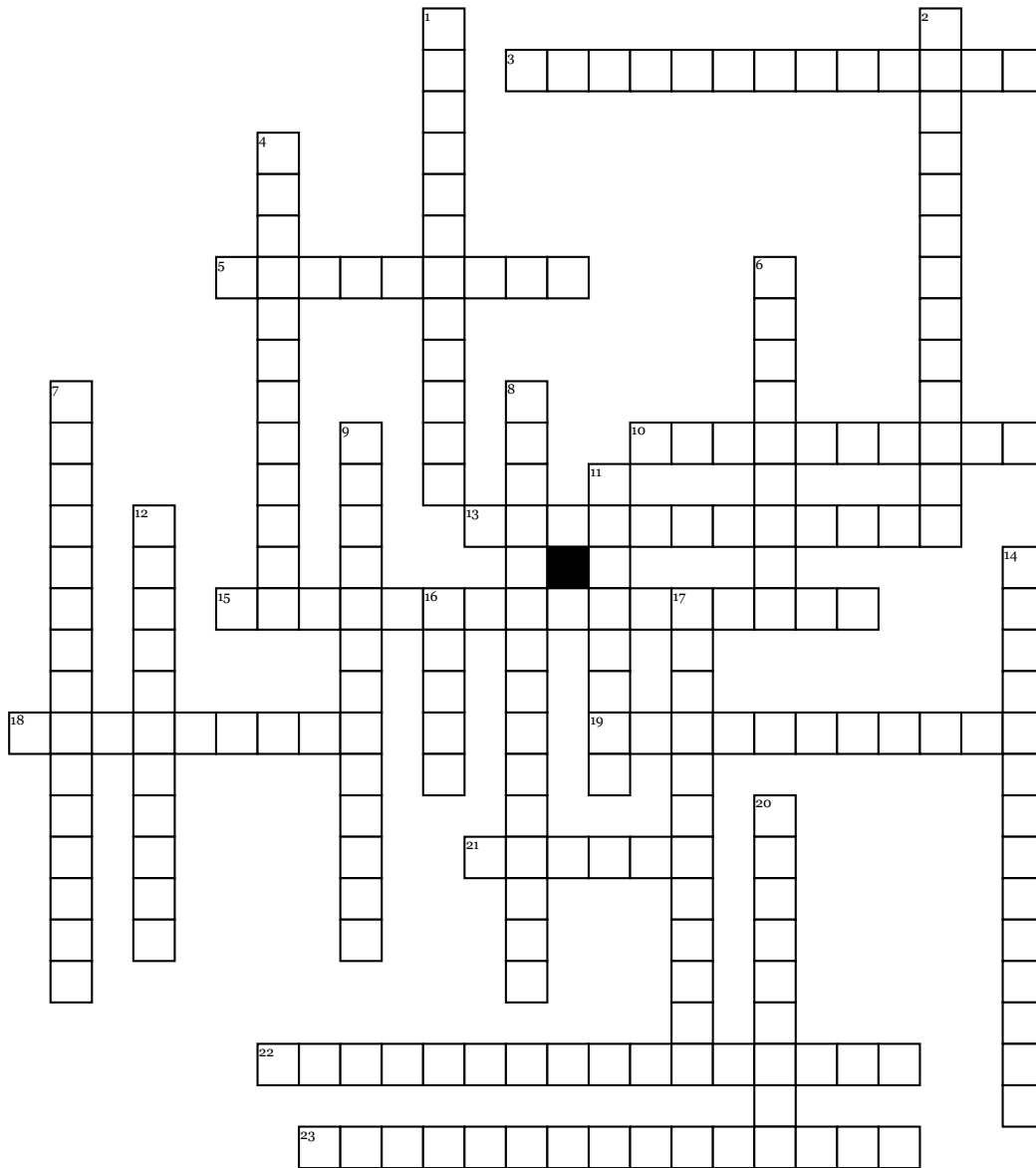


# Mendelian Genetics



## **Across**

- 3.** process of interbreeding individuals from genetically distinct populations
- 5.** genetic cross between a homozygous recessive individual and corresponding heterozygote to determine the heterozygote's genotype (PP x pP)
- 10.** pair of matching alleles for a trait
- 13.** genes where one is dominant and one is recessive
- 15.** variation in hereditary factors for independent characteristics
- 18.** hybrid that is heterozygous for alleles of two different genes
- 19.** parental generation

- 21.** a variant form of a gene

**22.** during the production of gametes the two copies of each hereditary factor separate so that offspring acquire one factor from each parent

**23.** mating between two individuals with different alleles for one trait

## **Down**

**1.** result of a cross between two F1 individuals

**2.** cross between two different alleles that differ in two observed traits

**4.** the generation resulting immediately from a cross of the first set of parents

**6.** set of observable characteristics of an organism

**7.** mating between two individuals with different alleles for one trait

**8.** no effect on appearance

**9.** diagram used to predict an outcome of a particular cross or breeding experiment

**11.** genetic constitution of an individual organism

**12.** a hybrid that is heterozygous with respect to a specified gene

**14.** determines the appearance

**16.** specific characteristic of an organism

**17.** an organism that passes down certain phenotypic traits to its offspring

**20.** any observable feature