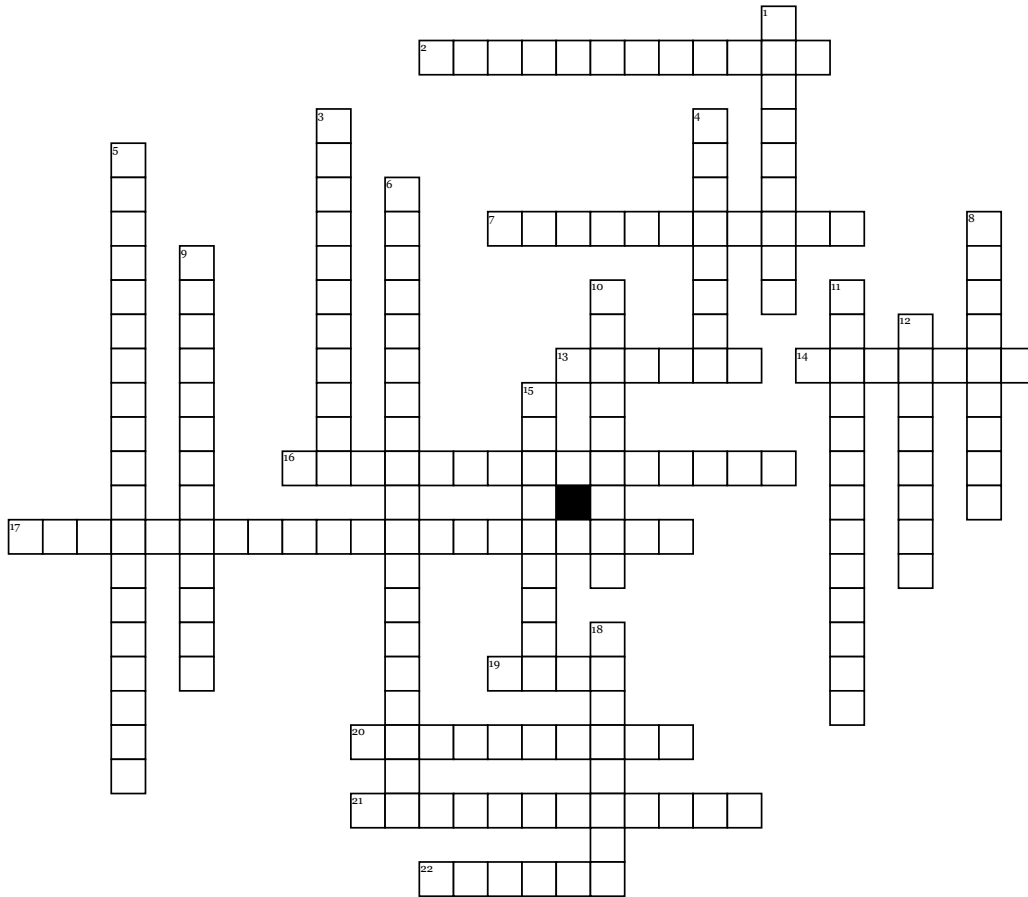


# Genetics



## Across

- 2.** The father of genetics that first worked with different characteristics of pea plants.
- 7.** the extent to which something is (the word) ; the likelihood of something happening or being the case.
- 13.** a distinguishing quality or characteristic, typically one belonging to a person.
- 14.** derive (a quality, characteristic, or predisposition) genetically from one's parents or ancestors.
- 16.** A gene located on the X chromosome may not be located on the Y chromosome. Thus, for some traits, males will only carry one allele (form of a gene), while females carry two.
- 17.** chromosomes that share: - The same structural features (e.g. same size, same banding pattern, same centromere position) - The same genes at the same loci positions (while genes are the same, alleles may be different)

- 19.** A segment of DNA that is responsible for the physical/inherited trait of an individual
- 20.** Type of genotype in which an individual has 2 of the same allele for a gene
- 21.** Type of genotype in which an individual has 2 different alleles for a gene
- 22.** One of 2 or more alternate forms/versions of a particular gene

## Down

- 1.** An allele that is masked when a dominant allele is present
- 3.** when both alleles can be observed in a phenotype
- 4.** The stronger version of a gene. The form that will show up if present
- 5.** when the offspring's phenotype is a combination of the parent's phenotypes
- 6.** is a term used in genetic genealogy to describe DNA

**8.** the passing on of physical or mental characteristics genetically from one generation to another.

**9.** one of the pair of chromosomes that determine the sex of an individual

**10.** a change or difference in condition, amount, or level, typically with certain limits.

**11.** A diagram used to predict the probability of how traits could be passed from parent to offspring

**12.** the study of heredity and the variation of inherited characteristics.

**15.** Expression of an individual's genotype as a physical trait in the organism

**18.** Combination of alleles (2) that an individual inherits for a specific gene

## Word Bank

autosomal chromosome  
Gregor Mendel  
incomplete dominance  
variation  
Probability  
Heredity

Homozygous  
Homologous chromosome  
Sex Chromosome  
Phenotype  
Allele  
Punnett Square

inherit  
Recessive  
Genetics  
codominance  
Genotype

Traits  
Gene  
Heterozygous  
Dominant  
Sex linked traits