

Vocabulary: Mouse Genetics (Two Traits)

Vocabulary

- Allele one of two or more forms that a gene could take.
 - o Dominant alleles are always expressed in the organism when they are present.
 - Recessive alleles are only expressed when the dominant allele is not present.
 - Usually dominant alleles are represented by capital letters. Recessive alleles are represented by lowercase letters.
- Genotype the genetic makeup of an organism.
 - The alleles possessed by an organism are represented by symbols. For example, a mouse with white fur might have the genotype *ff*.
- Phenotype the physical appearance of an organism.
 - Organisms with different genotypes can have the same phenotype. For example, an FF mouse and an Ff mouse both have black fur.
- <u>Probability</u> the likelihood of an event.
 - Probability can be expressed as a fraction, decimal, or percentage. If the odds of an event are one in four, the probability is 1/4, 0.25, or 25%.
- <u>Punnett square</u> a diagram that shows the possible offspring of two parents.
 - Punnett squares allow for the determination of the probability of each offspring's genotype.

