Genetics

- •Gene segment of DNA that codes for a specific trait
- •Allele alternative forms of a gene
- •Dominant allele that masks other from being expressed (will show if present)
- •Recessive allele that is masked when dominant is present (show only if other is not present)
- •Genotype the alleles an organism possesses
- •Phenotype an organism's physical appearance
- •Homozygous both alleles are the same Ex. YY or GG
- •Heterozygous alleles are different Ex. YG
- •Principle of Segregation genes separate during meiosis
- •Independent Assortment genes for different characteristics are distributed to gametes independently
- •Test Cross unknown genotype is crossed with a homozygous recessive to figure out its genotype
- •Sex Linkage trait determined by alleles on the sex chromosomes
- •Incomplete Dominance two or more alleles influence phenotype
- •Co-Dominance Both alleles are expressed equally
- •Multiple Alleles traits that have multiple alleles
- Ex. Blood type I^A, I^B, i
- •Polygenic traits two or more genes for one trait.