

Complex Patterns of Inheritance

Incomplete dominance: Heterozygous phenotype is intermediate between parental phenotypes; Parental phenotypes not seen in F1 generation; Neither allele completely dominant nor completely recessive

Codominance: Two alleles fully and separately expressed; Both parental phenotypes seen in all F1 offspring; Alleles neither dominant nor recessive

Multiple alleles: genes with more than two alleles

Polygenic traits: Traits that result from the interactions of two or more genes

Epistasis: A gene that overshadows all other genes for a particular trait

Interaction of environment and genotype: Phenotype is often the result of interactions between environment and genotype; temperature and sex of sea turtles; Identical twins raised separately

