

Inheritance of one gene

e.co.uk The inheritance of one gene using Mendel's law carbo explained with the help of a monohybrid cross. In this experiment, the tress between tall and dwarf plants is done which will result in all talk hyper plants in the Fr (Fust Filial or First) generation. Then these progenite verself-pollingered and will result in the production of F2 generation Cale re three tall plant one dwarf plant will be formed. Thus, the ratio will b. 3:1.

Incomplete dominance

Incomplete dominance is a type of inheritance in which one allele for a specific trait is not completely dominant over the other allele i.e. neither allele is dominant over the other in heterozygous organisms. This results in a combined phenotype. Incomplete dominance is also called mosaic or partial dominance. Here new phenotypic characters are expressed entirely.

Mirabilis jalapa, the marvel of Peru commonly called a 4 o'clock plant. It is a very good example of incomplete dominance because of its Inheritance of flower color. It is shown in the figure given below where red flowers (dominant) were crossed with white flowers (recessive), the F1 generation contains flowers that are pink in color (intermediate).