

Mendel's Laws

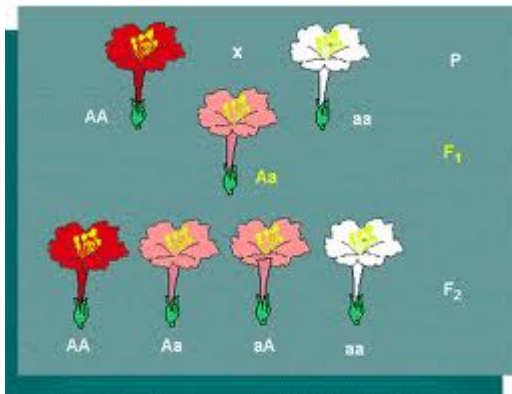
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Mendel's Laws of Genetics



Mendel discovered many laws with his experiments on the Garden pea plant.

He discovered different results after the crossing. When he crossed the white flower and purple flower plants, rather than being a mix of the two, the offspring was purple flowered.



He then came to the conclusion that the inheritance is done by some

"factors", and one of which is a recessive characteristic and the other dominant.

How Mendel's "factors" called later?

Mendel factors later called as genes. The genes occur in pairs in normal body cells and segregate during the formation of sex cells. Each of the parent becomes part of the separate sex cell.

He proved that the purple flower genes were dominant in plants, hide the recessive white flower gene. After the self-fertilization the first filial generation F1 obtained the 3:1 ratio. Based on this he theorized that 'genes can be paired in three different ways for each trait: AA, aa, and Aa.'

Law of Independent Assortment (The "Second Law")

Alleles of different genes assort independently of one another during gamete formation. By mixing one trait always resulted in a 3:1 ratio between dominant and recessive phenotypes. But by mixing two traits results with 9:3:3:1 ratios and proved that the two genes are independently inherited with a 3:1 phenotypic ratio.

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