

#69752 Biology, Genetics

Distinguish between mendelian and non-mendelian inheritance using the phenotypic outcome of reciprocal crosses.

Answer:

The genetic traits that follow the principals of Mendel's law are known as Mendelian inheritance while the genetic traits that do not follow Mendel's law are known as non Mendelian inheritance.

Mendelian vs Non Mendelian Inheritance ¹	
Genetic traits, which follow Mendel's laws of inheritance are mendelian inheritance.	Genetic traits, which do not follow Mendel's laws of inheritance are Non Mendelian inheritance.
Traits of the Phenotype	
Dominant allele determines the trait of the phenotype.	Traits of the phenotypes can differ from the traits of the homozygous state of alleles.
Proportions of Phenotype	
Proportions of the phenotypes in the progeny are same as predicted results	The proportions of the phenotypes observed in the progeny do not match the predicted values.

Answer provided by AssignmentExpert.com

¹ Difference Between Mendelian and Non Mendelian Inheritance, at: <http://www.differencebetween.com/difference-between-mendelian-and-vs-non-mendelian-inheritance/>