

13/5/22

# GENETICS-1

**Genetics:** deals with the inheritance as well as the variation of characters from parents to offsprings.

**Inheritance:** process by which characters are passed on from parent to progeny. It is the basis of heredity.

**Variation:** degree by which progeny differ from their parents.

## MENDEL'S LAW OF INHERITANCE

Gregor Mendel conducted his brilliant experiments on garden peas for 7 years (1856-1863) and proposed the laws of inheritance in living organisms.

Character	Dominant trait	Recessive trait
Seed shape	 Round	 Wrinkled
Seed colour	 Yellow	 Green
Flower colour	 Purple	 White
Pod shape	 Full	 Constricted
Pod colour	 Green	 Yellow
Flower position	 Axial	 Terminal
Stem height	 Tall	 Dwarf

Mendel conducted such artificial pollination / cross pollination experiments using **several true-breeding pea lines**.

\* A true breeding line is one that having undergone continuous self-pollination, shows the stable trait inheritance and expression for several generations.

\* Mendel selected 14 true breeding pea plant varieties as pairs which were similar except for one character with contrasting traits.

Human knew as early as 5000-1000 BC that inheritance & variation was hidden in sexual reproduction.  
eg: development of artificial cow in Punjab, development of many plant varieties.

Law of dominance

Law of segregation

Law of Independent assortment

**Genes / alleles:** Genes are the unit of inheritance - chemical molecules which present inside the nucleus of the cell have the ability to control our characters. They contain the information that is required to express a particular trait in an organism.

\* Gene which code for a pair of contrasting traits are known as **alleles**, i.e., they are slightly different forms of the same gene.

**Pure lines:** offsprings of homozygous self fertilised parents (genetically similar) **genotype** - combination of 2 alleles.

**phenotype** - external appearance of a character / defining feature of a character.

**Homozygous:** combination of same chemical molecules in an individual / zygote for a character eg: TT, yy

**Heterozygous:** combination of diff chemical molecules in an individual / zygote for a character eg: Tt, Yy

**Trait:** varieties of a character.

## 1) Law of dominance:

1) characters are controlled by discrete units called factors.

2) Factors occur in pairs

3) In a dissimilar pair of factors, one member of the pair dominates (dominant), the other (recessive).

The law of dominance is used to explain the expression of only one of the parental characters in a monohybrid cross in the F<sub>1</sub> and the expression of both in the F<sub>2</sub>. It also explains the proportion of 3:1 obtained at F<sub>2</sub>.

**Monohybrid cross:** Inheritance of single character / single gene / 1 pair alleles.



# Instant Notes In Genetics

**Aulay Mackenzie**



## **Instant Notes In Genetics:**

## Reviewing **Instant Notes In Genetics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Instant Notes In Genetics**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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