

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 biometric 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	Violet	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 F₁ and the expression of both in the F₂. It also explains the proportion of 3:1 obtained at F₂.

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



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M Tight



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